

Florida Onsite Sewage Nitrogen Reduction Strategies Study

Task C.23 C-HS4 Instrumentation Report

Progress Report

April 2013







OTIS ENVIRONMENTAL CONSULTANTS, LLC

Florida Onsite Sewage Nitrogen Reduction Strategies Study

TASK C.23 PROGRESS REPORT

C-HS4 Instrumentation Report

Prepared for:

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FDOH Contract CORCL

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Prepared by:



In Association With:





C-HS4 Instrumentation Report

1.0 Background

Task C of the Florida Onsite Sewage Nitrogen Reduction Strategies Study includes monitoring at field sites in Florida to evaluate nitrogen reduction in soil and groundwater, to assess groundwater impacts from various onsite wastewater systems, and to provide data for parameter estimation, verification, and validation of models developed in Task D. The Task C.5 QAPP documents the objectives, monitoring framework, sample frequency and duration, and analytical methods to be used at the field sites. This report documents the progress for instrumentation of the fourth Task C home site (C-HS4) located in Hillsborough County, Florida.

2.0 Site Description

The C-HS4 field site is also the B-HS2 passive nitrogen reduction system site located in Hillsborough County, FL adjacent to Eagle Lake and Creek in a rural area. The Task B.6 installation report for the B-HS2 system documents the experimental system design which was installed in September 2012. The existing onsite sewage treatment and disposal system (OSTDS) consisted of a 1,050 gallon concrete septic tank located adjacent to the soil treatment unit which is a mounded drainfield (P.T.I.TM bundles). The new passive treatment system consists of a replacement 1,050 gallon two chamber concrete primary tank; 300 gallon concrete recirculation tank; 900 gallon concrete Stage 1 unsaturated media filter; 300 gallon concrete pump tank; and 1,500 gallon two chamber concrete Stage 2 saturated media biofilter.

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3.0 Installation of Monitoring Points

An initial site investigation was conducted August 30, 2012 and September 4, 2012 to determine groundwater flow direction and to identify the OSTDS plume. Five standpipe piezometers were installed with a hand auger in the vicinity of the drainfield and the property corners to determine the groundwater flow direction. Soil descriptions were noted and samples collected during installation. These standpipe piezometers consist of 1-inch diameter PVC with 5-foot screen (0.01-inch slots). Once a piezometer was in place, 20/30 grade silica sand was poured around the piezometer to a height above the piezometer screen. Approximately 6 to 12 inches of bentonite was placed above the sand pack. Native soil was used to fill the remainder of the borehole around the piezometer. A 7-inch diameter irrigation cover was installed over each standpipe piezometer to protect the monitoring point and decrease disturbance to the homeowner.

Groundwater levels were measured using a flat tape water level meter graduated in feet (measurement accuracy is 0.01 feet). Elevations are based on National Geodetic Vertical Datum of 1929. Table 1 summarizes the piezometer survey information and initial groundwater elevations recorded enabling a determination of groundwater flow direction. As depicted in Figure 1, the general groundwater flow direction was to the southeast.

Site C-HS4 Standpipe Plezometers Groundwater Elevation										
		Тор	Groundwater Elevation ¹	Groundwater Elevation ¹	Groundwater Elevation ¹					
Identification	Type of Monitoring	Elevation ¹	(ft)	(ft)	(ft)					
lacitation	Point	(ft)	Sept 4,	Sept 6,	Sept 14,					
		(11)	2012	2012	2012					
PZ01-BKG	1" Standpipe Pie-									
	zometer, 5' screen	19.08	14.93	14.45	15.99					
PZ02-BKG	1" Standpipe Pie-									
	zometer, 5' screen	28.72	21.84	NR	24.10					
PZ03-BKG	1" Standpipe Pie-									
	zometer, 5' screen	24.85	19.27	19.06	21.30					
PZ04-BKG	1" Standpipe Pie-									
	zometer, 5' screen	18.82	13.12	13.83	16.24					
PZ05-BKG	1" Standpipe Pie-									
	zometer, 5' screen	20.79	NR	16.35	17.23					
PZ06-BKG	1" Standpipe Pie-									
	zometer, 5' screen	22.17	NR	15.41	16.08					

Table 1
Site C-HS4 Standpipe Piezometers Groundwater Elevation

¹Based on National Geodetic Vertical Datum of 1929

 $^{2}NR = no reading$

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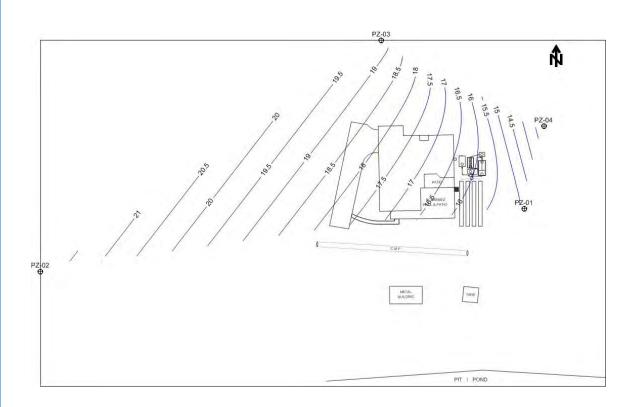


Figure 1 Surficial Groundwater Contours September 4, 2012

During the September 4, 2012 site visit, the OSTDS plume was also located using a push-pull sampler to obtain groundwater samples which were screened for conductivity at five locations downgradient of the drainfield bed as shown in Figure 2. Samples were taken from the top portion of the groundwater, approximately 5-feet below grade. Additionally, stainless steel drivepoint piezometers with a 1-foot screen were installed in the push-pull sampler locations. Appendix A summarizes the field measurements taken at the push-pull sampler locations, drivepoints and the standpipe piezometers including: temperature, pH, specific conductance, and dissolved oxygen concentrations as well as approximate nitrate and nitrite test strip measurements. The highest conductivity and nitrate test strip readings were at the PP4, PP3 and PP2 locations approximately 5-feet below grade.

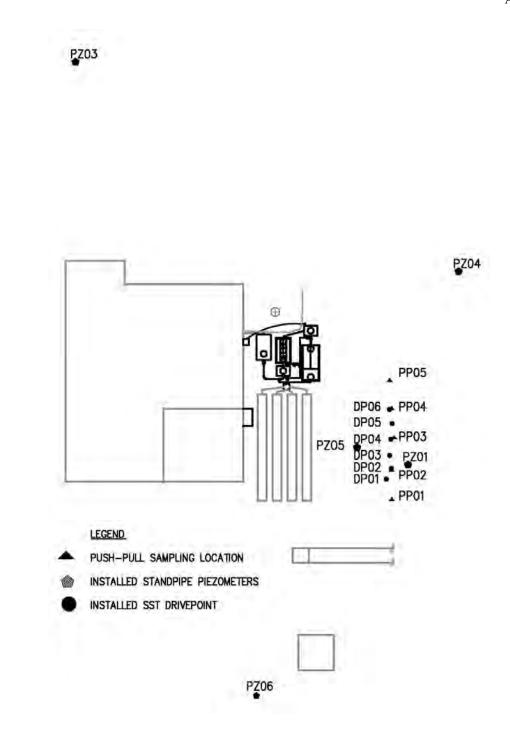


Figure 2 C-HS4 Initial Groundwater Screening

FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY C-HS4 INSTRUMENTATION REPORT

PAGE 1-4 HAZEN AND SAWYER, P.C. Initial groundwater samples were collected September 6, 2012 for water quality analysis. Groundwater samples were obtained using a peristaltic pump, which was attached directly to dedicated standpipe piezometer or drivepoint tubing. Samples were collected after sufficient purging (the sample was clear and pH and conductivity readings had stabilized) had occurred. Field parameters were then recorded.

The analysis-specific containers were supplied by the analytical laboratory and contained appropriate preservatives. The analysis-specific containers were labeled, placed in coolers and transported on ice to the analytical laboratory. Each sample container was secured in packing material as appropriate to prevent damage and spills, and was recorded on chain-of-custody forms supplied by the laboratory. Chain of custody forms, provided in Appendix B, were used to document the transfer of samples from field personnel to the analytical laboratory.

Field parameters (pH, specific conductance, temperature (Temp), and dissolved oxygen (DO)) were measured using portable electronic probes with probe tips placed in an overflowing plastic beaker as groundwater was being pumped. All samples were analyzed by the laboratory for: total alkalinity, total Kjeldahl nitrogen (TKN-N), ammonia nitrogen (NH₃-N), nitrate/nitrite nitrogen (NO_X-N), and chemical oxygen demand (COD), total phosphorus (TP), and chloride (CL). All analyses were performed by an independent and fully certified analytical laboratory (Southern Analytical Laboratory). Table 2 lists the analytical parameters, analytical methods, and detection limits for these analyses. The complete water quality analytical results for preliminary Sample Event No. 1 are listed in Table B.1 of Appendix B along with the laboratory report containing the raw analytical data.

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Analytical Parameters, Method of Analysis, and Detection Limits									
Analytical Parameter	Method of Analysis	Method Detection Limit (mg/L)							
Total Alkalinity as CaCO ₃	SM 2320B	2 mg/L							
Chemical Oxygen Demand (COD)	EPA 410.4	10 mg/L							
Total Kjeldahl Nitrogen (TKN-N)	EPA 351.2	0.05 mg/L							
Ammonia Nitrogen (NH ₃ -N)	EPA 350.1	0.005 mg/L							
Nitrate/Nitrite Nitrogen (NO _X -N)	EPA 300.0	0.02 mg/L							

SM 4500P-E

EPA 300.0

Table 2									
Analytical Parameters, Method of Analysis, and Detection Limits									

During the September 6th site visit, the groundwater levels were measured in the previously installed piezometers. Groundwater elevations were higher, but the direction of the groundwater flow was similar (Figure 3) to that on September 4, 2012.

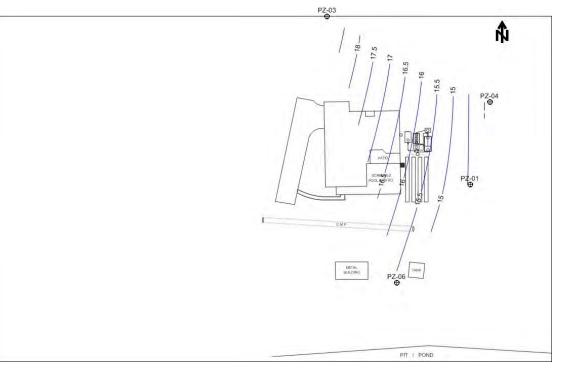


Figure 3 Surficial Groundwater Contours September 6, 2012

FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY C-HS4 INSTRUMENTATION REPORT

PAGE 1-6 HAZEN AND SAWYER, P.C.

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0.01 mg/L

0.05 mg/L

Total Phosphorus

Chloride

As depicted in Figure 4, the general groundwater flow direction continued to be towards the southeast.

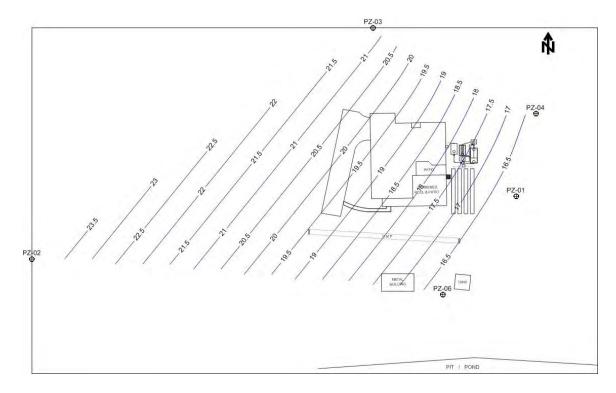


Figure 4 Surficial Groundwater Contours September 14, 2012

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FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY C-HS4 INSTRUMENTATION REPORT

PAGE 1-7 HAZEN AND SAWYER, P.C.

Based on the groundwater flow direction and initial groundwater sampling data, a sampling grid for groundwater screening was developed downgradient of the soil treatment unit. On December 3, 2012, a 10-foot by 5-foot grid spacing was staked. Transect lines A through S run east-west, roughly parallel to the groundwater flow direction and increase (higher letter identification) moving southward from the drainfield. Transect lines 0 through 10 run north-south, roughly perpendicular to the groundwater flow direction and increase moving from the west to east. Based on initial screening data, 29 monitoring locations were chosen within the grid for standpipe piezometer installation. Each monitoring location was assigned a unique identification indicating grid location (self explanatory), and depth below ground surface (bottom of the well screen in feet). For example E03-8 is a standpipe piezometer sampler located on the grid at E03 at 8 feet below ground surface. Figure 5 shows the monitoring plan and grid.

PZ03 BKG

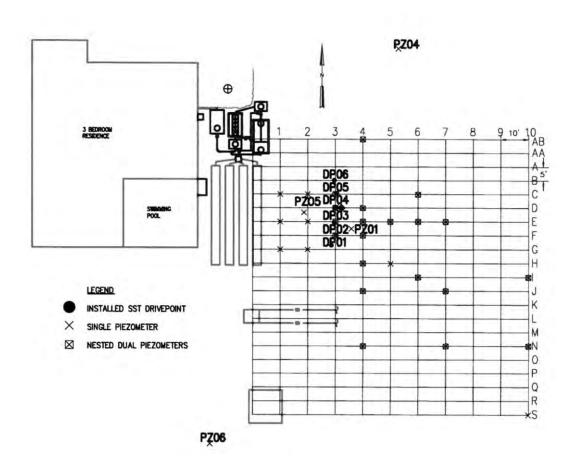


Figure 5 Monitoring Plan and Grid

A soil and water assessment of the site was completed during the week of December 3 through 7, 2012. Drilling services were provided by Environmental Drilling Service, Inc., Orlando, FL. Groundwater screening using a direct push drilling rig was conducted at three grid locations: D03, D05, and BKG near PZ03. A ³/₄-inch diameter stainless steel covered by a screen sheath was placed via the direct push method at the screened intervals provided in Table 3.

Table 3 Groundwater Screening Intervals: Depth Below Land Surface (feet)								
Location D03	Location D05	Location BKG						
6-10	6-10	8-12						
8-12	8-12	10-14						
10-14	10-14	12-16						
12-16	12-16	14-18						
16-20	14-18							
21-25	16-20							

. .

When the screen was located at the proper depth, the sheath was retracted to allow groundwater to flow into the screen. Groundwater samples were then collected with a peristaltic pump and dedicated polyethylene tubing as shown in Figure 6. Sample collection was performed in accordance with FDEP Standard Operating Procedures DEP-SOP-001/01 FS2200. Recorded groundwater field parameters, including pH, temperature, conductivity, dissolved oxygen, turbidity, nitrate and nitrite test strips, are provided in Appendix C, Table C.1. In addition, the groundwater sampling logs are provided in Appendix C. In addition, water samples at each depth were collected for laboratory analysis for chloride.

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Figure 6 Photo of Groundwater Sample Collection

A GeoprobeTM rig was also used to install a total of 46 piezometers. Two of these piezometers (at grid locations H05 and G02) were 2-inch diameter PVC piezometers with 7.5-foot screens (0.01-inch slots) installed primarily for slug testing to determine hydraulic conductivity.

The remaining 44 piezometers were installed at 22 locations in nested dual clusters at two depths relative to the groundwater elevation as depicted in Figure 7. The GeoprobeTM rig was used to auger (4.25-inch inner diameter) to 7-feet below the top of the groundwater table. The piezometer nest was placed inside the hollow auger and completed with 20/30 grade silica sand around the screens, a 1-foot bentonite seal between the screens (using ¼-inch bentonite pellets), and natural backfill to the top of grade. To capture the expected groundwater fluctuations, a 5-foot screen was used in the shallow 1-inch diameter piezometer in each set of nested piezometers. The deeper 3/4-inch diameter piezometer at each location had a 1-foot screen. The shallow piezometer at each location was positioned so that the top of the screen was 4-feet above the groundwater table. A summary of the nested piezometer installations is as follows:

- 1. Upper piezometer (1-inch diameter, 5-foot screen) bottom of screen 1-feet below top of groundwater table.
- 2. Lower piezometer (3/4-inch diameter, 1-foot screen) bottom of screen 6-feet below bottom of "upper piezometer" screen.

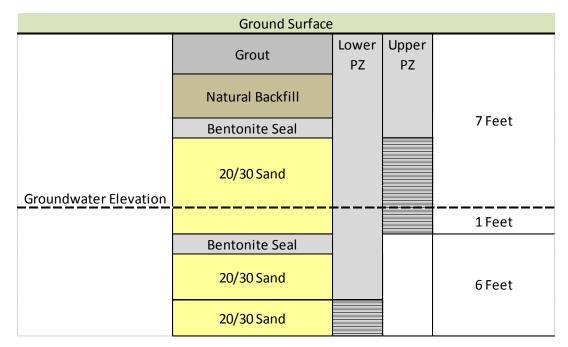


Figure 7 Nested Standpipe Piezometers Configuration Groundwater Table Elevation 7-feet BGS

Nested piezometers were placed at grid locations AB-04; C--03, -06; D--03, -04; E--03, -04, -05, -06, -07; F-03, -04; H-04; I--06, -10; J--04, -07; N—04, -07, -10; S-10; BKG. A schematic of the C-HS4 monitoring network is shown in Figure 8. Table 4 provides a complete list of all the standpipe piezometers installed November and December, 2012.

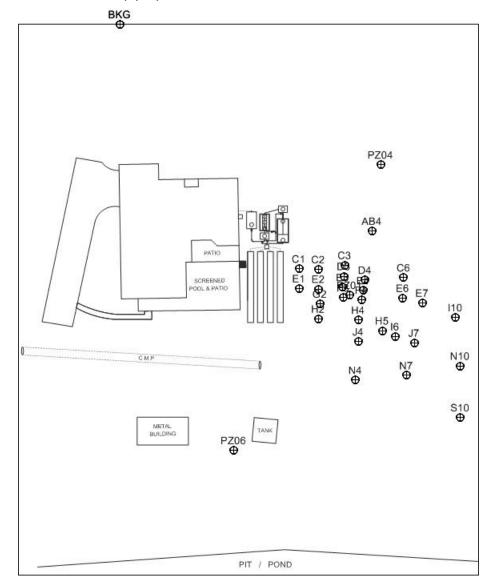


Figure 8 C-HS4 Monitoring Network

	0.110	C-1134 Installeu Flezoilletei		agii Boooiiisoi, I		
	Identifica-				Тор	Bottom
	tion	Type of Monitoring Point	Latitude	Longitude	Elev ¹	Elev ¹
					(feet)	(feet)
4	DKC 40	1" Standpipe Piezometer,	07940140 0470"NI		04.00	45.00
1	BKG-10	5' screen 3/4" Standpipe Piezometer,	27°49'43.0172"N	82°20'57.0468"W	24.60	15.22
2	BKG-15	1' screen	27°49'43.0164"N	82°20'57.0476"W	24.60	10.17
		1" Standpipe Piezometer,	21 10 10.010111	02 20 01.0 17 0 W	21.00	10.17
3	PZ-AB4-08	5' screen	27°49'41.9845"N	82°20'55.6230"W	18.65	10.27
		3/4" Standpipe Piezometer,				
4	PZ-AB4-15	1' screen	27°49'41.9862"N	82°20'55.6233"W	18.59	4.09
_	57.04	1" Standpipe Piezometer,				10 70
5	PZ-C1	5' screen	27°49'41.7944"N	82°20'56.0339"W	22.85	12.70
6	PZ-C2	1" Standpipe Piezometer, 5' screen	27°49'41.7918"N	82°20'55.9247"W	21.23	9.73
0	FZ-02	1" Standpipe Piezometer,	2/ 4941./910 N	02 20 55.9247 W	21.23	9.75
7	PZ-C3-08	5' screen	27°49'41.8127"N	82°20'55.7760"W	19.63	11.83
	00 00	3/4" Standpipe Piezometer,				
8	PZ-C3-15	1' screen	27°49'41.8136"N	82°20'55.7772"W	19.64	5.09
		1" Standpipe Piezometer,				
9	PZ-C6-08	5' screen	27°49'41.7516"N	82°20'55.4435"W	17.53	9.03
4.0	D7 00 15	3/4" Standpipe Piezometer,	07040144740000		47.50	0.40
10	PZ-C6-15	1' screen 1" Standpipe Piezometer,	27°49'41.7499"N	82°20'55.4422"W	17.53	3.13
11	PZ-D3-08	5' screen	27°49'41.7573"N	82°20'55.7808"W	19.62	11.63
	12 20 00	3/4" Standpipe Piezometer,		02 20 0011 000 11	10.02	11.00
12	PZ-D3-15	1' screen	27°49'41.7563"N	82°20'55.7811"W	19.64	5.08
		1" Standpipe Piezometer,				
13	PZ-D4-08	5' screen	27°49'41.7390"N	82°20'55.6608"W	18.77	10.89
	D7 D4 45	3/4" Standpipe Piezometer,	07040144 740001		40.70	4.04
14	PZ-D4-15	1' screen 1" Standpipe Piezometer,	27°49'41.7402"N	82°20'55.6606"W	18.76	4.21
15	PZ-E1	5' screen	27°49'41.6954"N	82°20'56.0331"W	22.92	11.42
10		1" Standpipe Piezometer,	21 40 41.000 4 N	02 20 00.0001 W	22.02	11.72
16	PZ-E2	5' screen	27°49'41.6928"N	82°20'55.9235"W	21.03	9.33
17	PZ-E3-08	1" Standpipe Piezometer,	27°49'41.7026"N	82°20'55.7868"W	19.66	11.41
	1 Z-LJ-00	5' screen	21 4341.1020 N	02 20 JJ.7000 W	19.00	11.41
		3/4" Standpipe Piezometer,	07040144 7044		10.01	
18	PZ-E3-15	1' screen	27°49'41.7041"N	82°20'55.7866"W	19.64	4.98
19	PZ-E4-08	1" Standpipe Piezometer,	27º40'41 6972"N	82°20'55.6706"W	18.70	10.80
19	T'∠-E4-00	5' screen 3/4" Standpipe Piezometer,	27°49'41.6872"N	02 20 00.0700 W	10.70	10.00
20	PZ-E4-15	1' screen	27°49'41.6864"N	82°20'55.6700"W	18.69	4.31
	`	1" Standpipe Piezometer,				
21	PZ-E5-08	5' screen	27°49'41.6680"N	82°20'55.5514"W	18.15	10.25
		3/4" Standpipe Piezometer,				
22	PZ-E5-15	1' screen	27°49'41.6690"N	82°20'55.5499"W	18.13	3.56

Table 4									
Site C-HS4 Installed Piezometers November through December, 2012									

	Site	C-HS4 Installed Piezomete	rs November thro	ough December, 2	2012	
	Identifica- tion	Type of Monitoring Point	Latitude	Longitude	Top Elev ¹ (feet)	Bottom Elev ¹ (feet)
		1" Standpipe Piezometer,			(1001)	(1001)
23	PZ-E6-08	5' screen	27°49'41.6488"N	82°20'55.4485"W	17.83	9.95
24	PZ-E6-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.6496"N	82°20'55.4489"W	17.85	3.45
		1" Standpipe Piezometer,				
25	PZ-E7-08	5' screen	27°49'41.6257"N	82°20'55.3379"W	17.55	8.87
26	PZ-E7-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.6258"N	82°20'55.3395"W	17.55	3.05
27	PZ-F3-08	1" Standpipe Piezometer, 5' screen	27°49'41.6501"N	82°20'55.7840"W	19.54	11.59
28	PZ-F3-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.6507"N	82°20'55.7850"W	19.55	5.05
29	PZ-F4-08	1" Standpipe Piezometer, 5' screen	27°49'41.6385"N	82°20'55.6814"W	18.83	11.1:
30	PZ-F4-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.6389"N	82°20'55.6804"W	18.88	4.48
31	PZ-G1	1" Standpipe Piezometer, 5' screen	27°49'41.5442"N	82°20'55.9241"W	20.72	12.8
32	PZ-G2-12.5	2" Standpipe Piezometer, 7.5' screen	27°49'41.6192"N	82°20'55.9153"W	21.03	8.8
33	PZ-H4-08	1" Standpipe Piezometer, 5' screen	27°49'41.5382"N	82°20'55.6987"W	19.19	10.9
34	PZ-H4-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.5393"N	82°20'55.6966"W	19.22	4.4
35	PZ-H5-11.5	2" Standpipe Piezometer, 7.5' screen	27°49'41.4854"N	82°20'55.5639"W	18.58	7.8
36	PZ-16-08	1" Standpipe Piezometer, 5' screen	27°49'41.4568"N	82°20'55.4915"W	18.42	9.3
37	PZ-16-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.4556"N	82°20'55.4913"W	18.42	3.8
38	PZ-I10-08	1" Standpipe Piezometer, 5' screen	27°49'41.5523"N	82°20'55.1520"W	16.87	8.9
39	PZ-I10-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.5520"N	82°20'55.1531"W	16.92	4.4
40	PZ-J4-08	1" Standpipe Piezometer, 5' screen	27°49'41.4303"N	82°20'55.6982"W	19.26	11.3
41	PZ-J4-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.4310"N	82°20'55.6971"W	19.25	4.7
42	PZ-J7-08	1" Standpipe Piezometer, 5' screen	27°49'41.4247"N	82°20'55.3834"W	17.86	9.4
43	PZ-J7-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.4249"N	82°20'55.3819"W	17.87	3.4
44	PZ-N4-08	1" Standpipe Piezometer, 5' screen	27°49'41.2372"N	82°20'55.7136"W	19.28	11.0
45	PZ-N4-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.2383"N	82°20'55.7148"W	19.30	4.8

Table 4 Site C-HS4 Installed Piezometers November through December, 2012

	Site C-HS4 Installed Piezometers November through December, 2012											
	Identifica-	Type of Monitoring Point	Latitude	Longitude	Top Elev ¹	Bottom Elev ¹						
	tion				(feet)	(feet)						
46	PZ-N7-08	1" Standpipe Piezometer, 5' screen	27°49'41.2616"N	82°20'55.4265"W	18.01	9.46						
47	PZ-N7-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.2628"N	82°20'55.4270"W	18.03	3.23						
48	PZ-N10-08	1" Standpipe Piezometer, 5' screen	27°49'41.3101"N	82°20'55.1237"W	16.92	9.17						
49	PZ-N10-15	3/4" Standpipe Piezometer, 1' screen	27°49'41.3103"N	82°20'55.1250"W	16.83	2.59						
50	PZ-S10-08	1" Standpipe Piezometer, 5' screen	27°49'41.0518"N	82°20'55.1229"W	17.03	8.78						
51	DP-01	SST Drivepoint	27°49'41.5922"N	82°20'55.8124"W	19.25							
52	DP-02	SST Drivepoint	27°49'41.6416"N	82°20'55.8110"W	19.24							
53	DP-03	SST Drivepoint	27°49'41.6937"N	82°20'55.8136"W	19.49							
54	DP-04	SST Drivepoint	27°49'41.7401"N	82°20'55.8129"W	19.22							
55	DP-05	SST Drivepoint	27°49'41.7910"N	82°20'55.8131"W	19.25							
56	DP-06	SST Drivepoint	27°49'41.8397"N	82°20'55.8205"W	19.38							

Table 4
Site C-HS4 Installed Piezometers November through December, 2012

¹Elevation above mean seal level based on NGVD 1929

4.0 Soil Assessment

Continuous soil samples were collected using the direct push method at grid locations BKG, DP-04 and E7. Soil samples were collected in direct push hollow tubes. The soil descriptions are provided in Appendix D, Table D.1. The soil samples were submitted to the University of Florida IFAS Analytical Services Laboratory and University of Florida SWS Mineralogy Core Laboratory for analysis. The soil samples were analyzed for particle size distribution (see Table D.2), pH, organic matter, cation exchange capacity (CEC), ammonia, nitrate, TKN, phosphorus, potassium, calcium, magnesium, and sodium concentrations (see Table D.3). The complete soil data set is included in Appendix D.

Additionally, soil from the auger flights during installation of standpipe piezometers was classified as the auger was retracted from the ground. Soil encountered generally included brown, tan fine sands and clay. The boring logs are included in Appendix D.

5.0 Preliminary Groundwater Sampling

Groundwater screening was conducted during installation December 3 through 7, 2012. Groundwater screening field parameters are outlined in Appendix E including temperature, pH and specific conductance measurements for some of the monitoring locations. Based on the preliminary groundwater specific conductance measurements, the general plume appears to extend to the southeast as expected. Sampling and analysis using standard analytical methods is required to confirm the plume extent and is scheduled for January 2013.



Appendix A: C-HS4 September Sampling Results

	Table A.1								
		Sit	e C-HS4 Initial	Site Mo	nitorin	g			
ID	Description	Depth Below Ground Surface (ft)	Sample Date/ Time	Temp (°C)	рН	SC (µS)	DO (mg/ L)	Est. NO3- N (Test Strip mg- N/L)	Est. NO2- N (Test Strip mg- N/L)
PP01	PP Sampler	5	9/4/2012	29.6	3.63	1,140	5.37	0	0
PP02	PP Sampler	5	9/4/2012	30.1	4.06	571	NR	5	0
PP03	PP Sampler	5	9/4/2012	29.0	3.90	708	NR	15	0
PP04	PP Sampler	5	9/4/2012	29.3	3.74	952	NR	0	0
PP05	PP Sampler	5	9/4/2012	31.8	4.10	252	NR	0	0
DP01	DP Sampler	7	9/6/12 9:15	26.8	4.00	540	0.51	NR	NR
DP02	DP Sampler	7	9/6/12 9:45	26.7	4.50	596	0.20	NR	NR
DP03	DP Sampler	7	9/6/12 10:30	26.9	4.84	639	1.86	NR	NR
DP04	DP Sampler	7	9/6/12 13:20	26.0	5.50	747	1.36	NR	NR
DP05	DP Sampler	7	9/6/12 13:35	26.0	4.84	350	1.41	NR	NR
DP06	DP Sampler	7	9/6/12 14:05	26.1	5.05	488	0.57	NR	NR
PZ01	1"PZ, 5' screen	10	9/6/12 11:00	26.8	4.32	669	0.86	15	0
PZ03	1"PZ, 5' screen	6	9/6/12 12:00	26.6	3.53	210	1.18	NR	NR
PZ04	1"PZ, 5' screen	6	9/6/12 11:45	27.8	3.88	801	7.07	NR	NR
PZ05	1"PZ, 5' screen	6	9/6/12 14:30	26.1	4.96	687	2.38	NR	NR
PZ06	1"PZ, 5' screen	11	9/6/12 14:45	25.4	4.75	380	4.03	NR	NR

¹NR = no reading was taken

PP = push pull sampler DP = drivepoint sampler PZ = standpipe piezometer sampler



Appendix B: Preliminary Sample Event No. 1

Sample IDs	Sample Date/Time	Temp (°C)	рН	Total Alkalinity (mg/L)	DO (mg/L)	Specific Conductance (µS)	COD (mg/L)	TN (mg/L N) ¹	TKN (mg/L N)	Organic N (mg/L N) ²	NH₃-N (mg/L N)	NOx (mg/L N)	TIN (mg/L N) ³	TP (mg/L)	Chloride (mg/L)
CHS4-STE	9/10/12 9:00	26.8	7.0	610	0.4	1463		68.0	68	13.0	55	0.03	55.0	7.1	
CHS4-DP01-7	9/6/12 9:15	26.8	4.0	2	0.51	540	47	5.0	1.8	1.8	0.021	3.2	3.2	0.05	2
CHS4-DP02-7	9/6/12 9:45	26.7	5.5	4.2	0.2	596	31	8.4	3.7	3.7	0.014	4.7	4.7	0.057	24
CHS4-DP03-7	9/6/12 10:30	26.9	4.8	12	1.86	639	67	14.4	5.4	5.4	0.009	9	9.0	0.35	3:
CHS4-DP-04	9/6/12 13:20	26.0	5.5	39	1.4	747	72	19.3	4.3	4.3	0.01	15	15.0	0.075	28
CHS4-DP-05	9/6/12 13:45	26.0	4.8	8.4	1.4	350	47	1.5	1.2	1.1	0.09	0.27	0.4	0.064	12
CHS4-DP-06	9/6/12 14:05	26.1	5.1	15	0.6	488	49	2.2	1.4	1.3	0.068	0.75	0.8	0.064	10
CHS4-PZ01-10	9/6/12 11:00	26.8	4.3	2	0.86	669	40	13.4	4.3	4.3	0.018	9.1	9.1	0.044	30
CHS4-PZ01-10 Dup	9/6/12 11:05	26.8	4.3	2	0.86	669	40	12.2	4.2	4.2	0.014	8	8.0	0.044	29
CHS4-PZ03	9/6/12 12:00	26.6	3.5	2	1.2	210	56	1.2	1.2	1.2	0.046	0.02	0.1	0.13	1:
CHS4-PZ04	9/6/12 11:45	27.8	3.9	2	7.07	801	44	1.0	0.95	0.9	0.009	0.05	0.1	0.069	2
CHS4-PZ05	9/6/12 14:30	26.1	5.0	9.4	2.4	687	40	11.3	3.3	3.1	0.19	8	8.2	0.062	30
CHS4-PZ06	9/6/12 15:00	26.1	4.8	8.4	4	380	67	2.1	2	1.8	0.16	0.11	0.3	3.1	14

Table B.1 Water Quality Data Preliminary Sample Event No. 1

Notes:

 1 Total Nitrogen (TN) is a calculated value equal to the sum of TKN and NO $_{\rm X}$

 $^2 \text{Organic Nitrogen}$ (ON) is a calculated value equal to the difference of TKN and NH_{2}

 $^3\text{Total}$ Inorganic Nitrogen (TIN) is a calculated value equal to the sum of NH $_3$ and NO $_x$

D.O. - Dissolved oxygen

G - Grab sample

Gray-shaded data points indicate values below method detection level (mdl), mdl value used for statistical analyses.

Yellow-shaded data points indicate the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit, value used for statistical



September 28, 2012

Work Order: 1210253

Hazen and Sawyer 10002 Princess Palm Ave, Suite 200

Tampa, FL 33619

Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-DP01-7' Groundwater 1210253-01 09/06/12 09:15 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		4.0 26.8 °C 540 umhos 0.51 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride Nitrate+Nitrite (N)	mg/L mg/L mg/L mg/L	0.021 47 25 3.2	EPA 350.1 EPA 410.4 EPA 300.0 EPA 353.2	0.040 25 0.20 0.20	0.009 10 0.050 0.05	09/11/12 09:00	09/11/12 14:33 09/11/12 11:10 09/18/12 16:55 09/12/12 11:22	MMF CDB JAG MMF
Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L	0.050 2.0 U 1.8	SM 4500P-E SM 2320B EPA 351.2	0.040 8.0 0.20	0.03 0.010 2.0 0.05	09/12/12 09:55 09/10/12 16:20	09/14/12 12:59 09/11/12 09:21 09/13/12 11:35	MMF TJH MMF
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-DP02-7' Groundwater 1210253-02 09/06/12 09:45 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		4.5 26.7 °C 596 umhos 0.20 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride Nitrate+Nitrite (N) Phosphorous - Total as P	mg/L mg/L mg/L mg/L mg/L	0.014 31 24 4.7 0.057	EPA 350.1 EPA 410.4 EPA 300.0 EPA 353.2 SM 4500P-E	0.040 25 0.20 0.20 0.040	0.009 10 0.050 0.05 0.010	09/11/12 09:00 09/12/12 09:55	09/11/12 14:35 09/11/12 11:10 09/18/12 16:55 09/12/12 11:25 09/14/12 13:00	MMF CDB JAG MMF MMF
Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L	4.2 l 3.7	SM 2320B EPA 351.2	8.0 0.20	2.0 0.05	09/10/12 16:20	09/10/12 10:47 09/13/12 11:37	TJH MMF



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Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by		CHS4-DP03-7' Groundwater 1210253-03 09/06/12 10:30 Josephine Edeback-H	lirst					
Date/Time Received		09/06/12 17:00						
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		4.8 26.9 °C 639 umhos 1.86 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride	mg/L mg/L mg/L	0.009 U 67 31	EPA 350.1 EPA 410.4 EPA 300.0	0.040 25 0.20	0.009 10 0.050	09/11/12 09:00	09/11/12 14:52 09/11/12 11:10 09/18/12 16:55	MMF CDB JAG
Nitrate+Nitrite (N) Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	9.0 0.35 12 5.4	EPA 353.2 SM 4500P-E SM 2320B EPA 351.2	0.20 0.040 8.0 0.20	0.05 0.010 2.0 0.05	09/12/12 09:55	09/12/12 11:27 09/14/12 13:03 09/10/12 10:47 09/13/12 12:15	MMF MMF TJH MMF
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-PZ01-10' Groundwater 1210253-04 09/06/12 11:00 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data pH Temperature Conductivity Dissolved Oxygen		4.3 26.8 °C 669 umhos 0.86 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride Nitrate+Nitrite (N)	mg/L mg/L mg/L	0.018 I 40 30 9.1	EPA 350.1 EPA 410.4 EPA 300.0 EPA 353.2	0.040 25 0.20 0.20	0.009 10 0.050 0.05	09/11/12 09:00	09/11/12 14:54 09/11/12 11:10 09/18/12 16:55 09/12/12 11:29	MMF CDB JAG MMF
Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	9.1 0.044 2.0 U 4.3	SM 4500P-E SM 2320B EPA 351.2	0.20 0.040 8.0 0.20	0.05 0.010 2.0 0.05	09/12/12 09:55 09/10/12 16:20	09/12/12 11:29 09/14/12 13:05 09/10/12 10:47 09/13/12 11:39	MMF MMF TJH MMF



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Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-PZ01-10' Dup Groundwater 1210253-05 09/06/12 11:05 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		4.3 26.8 °C 669 umhos 0.86 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride	mg/L mg/L mg/L	0.014 I 40 29	EPA 350.1 EPA 410.4 EPA 300.0	0.040 25 0.20	0.009 10 0.050	09/11/12 09:00	09/11/12 14:56 09/11/12 11:10 09/18/12 16:55	MMF CDB JAG
Nitrate+Nitrite (N) Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	8.0 0.044 2.0 U 4.2	EPA 353.2 SM 4500P-E SM 2320B EPA 351.2	0.20 0.040 8.0 0.20	0.05 0.010 2.0 0.05	09/12/12 09:55	09/12/12 11:31 09/14/12 13:06 09/10/12 10:47 09/13/12 11:41	MMF MMF TJH MMF
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-PZ04 Groundwater 1210253-06 09/06/12 11:45 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data pH Temperature Conductivity Dissolved Oxygen		3.9 27.8 °C 801 umhos 7.07 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride Nitrate+Nitrite (N)	mg/L mg/L mg/L mg/L	0.009 U 44 25 0.05	EPA 350.1 EPA 410.4 EPA 300.0 EPA 353.2	0.040 25 0.20 0.04	0.009 10 0.050 0.01	09/11/12 09:00	09/11/12 14:58 09/11/12 11:10 09/18/12 16:55 09/12/12 10:53	MMF CDB JAG MMF
Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	0.069 2.0 U 0.95	SM 4500P-E SM 2320B EPA 351.2	0.04 0.040 8.0 0.20	0.010 2.0 0.05	09/12/12 09:55 09/10/12 16:20	09/12/12 10:33 09/14/12 13:07 09/10/12 10:47 09/13/12 11:42	MMF MMF TJH MMF



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Hazen and Sawyer 10002 Princess Palm Ave, Suite 200

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Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description		CHS4-PZ03						
Matrix		Groundwater						
SAL Sample Number		1210253-07						
Date/Time Collected		09/06/12 12:00						
Collected by		Josephine Edeback-H	lirst					
Date/Time Received		09/06/12 17:00						
Client Provided Field Data								
рH		3.5						
Temperature		26.6 °C						
Conductivity		210 umhos						
Dissolved Oxygen		1.2 mg/L						
Inorganics								
Ammonia as N	mg/L	0.046	EPA 350.1	0.040	0.009		09/11/12 15:00	MMF
Chemical Oxygen Demand	mg/L	56	EPA 410.4	25	10	09/11/12 09:00	09/11/12 11:10	CDE
Chloride	mg/L	11	EPA 300.0	0.20	0.050		09/18/12 16:55	JAG
Nitrate+Nitrite (N)	mg/L	0.02 I	EPA 353.2	0.04	0.01		09/12/12 10:56	MMF
Phosphorous - Total as P	mg/L	0.13	SM 4500P-E	0.040	0.010	09/12/12 09:55	09/14/12 13:08	MMF
Total Alkalinity	mg/L	2.0 U	SM 2320B	8.0	2.0		09/10/12 10:47	TJH
Total Kjeldahl Nitrogen	mg/L	1.2	EPA 351.2	0.20	0.05	09/10/12 16:20	09/13/12 11:43	MMF
Sample Description		CHS4-DP-06						
Matrix		Groundwater						
SAL Sample Number		1210253-08						
Date/Time Collected		09/06/12 14:05						
Collected by		Josephine Edeback-H	lirst					
Date/Time Received		09/06/12 17:00						
Client Provided Field Data								
pН		5.1						
Temperature		26.1 °C						
Conductivity		488 umhos						
Dissolved Oxygen		0.6 mg/L						
Inorganics								
Ammonia as N	mg/L	0.068	EPA 350.1	0.040	0.009		09/11/12 15:02	MMF
Chemical Oxygen Demand	mg/L	49	EPA 410.4	25	10	09/11/12 09:00	09/11/12 11:10	CDE
Chloride	mg/L	16	EPA 300.0	0.20	0.050		09/18/12 16:55	JAG
Nitrate+Nitrite (N)	mg/L	0.75	EPA 353.2	0.04	0.01		09/12/12 10:58	MMF
Phosphorous - Total as P	mg/L	0.064	SM 4500P-E	0.040	0.010	09/12/12 09:55	09/14/12 13:09	MMF
Total Alkalinity	mg/L	15	SM 2320B	8.0	2.0		09/10/12 10:47	TJH
Total Kjeldahl Nitrogen	mg/L	1.4	EPA 351.2	0.20	0.05	09/10/12 16:20	09/13/12 11:44	MMF



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Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-DP-04 Groundwater 1210253-09 09/06/12 13:20 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		5.5 26.0 °C 747 umhos 1.4 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride	mg/L mg/L mg/L	0.010 I 72 28	EPA 350.1 EPA 410.4 EPA 300.0	0.040 25 0.20	0.009 10 0.050	09/11/12 09:00	09/11/12 15:04 09/11/12 11:10 09/20/12 16:48	MMF CDE JAG
Nitrate+Nitrite (N) Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	15 0.075 39 4.3	EPA 353.2 SM 4500P-E SM 2320B EPA 351.2	1.0 0.040 8.0 0.20	0.25 0.010 2.0 0.05	09/12/12 09:55 09/10/12 16:20	09/12/12 11:38 09/14/12 13:11 09/10/12 10:47 09/13/12 11:46	MMF MMF TJH MMF
Sample Description Matrix SAL Sample Number Date/Time Collected Collected by Date/Time Received		CHS4-DP-05 Groundwater 1210253-10 09/06/12 13:45 Josephine Edeback-H 09/06/12 17:00	lirst					
Client Provided Field Data								
pH Temperature Conductivity Dissolved Oxygen		4.8 26.0 °C 350 umhos 1.4 mg/L						
Inorganics Ammonia as N Chemical Oxygen Demand Chloride	mg/L mg/L mg/L	0.090 47 12	EPA 350.1 EPA 410.4 EPA 300.0	0.040 25 0.20	0.009 10 0.050	09/11/12 09:00	09/11/12 15:06 09/11/12 11:10 09/18/12 16:55	MMF CDE JAG
Nitrate+Nitrite (N) Phosphorous - Total as P Total Alkalinity Total Kjeldahl Nitrogen	mg/L mg/L mg/L mg/L	0.27 0.064 8.4 1.2	EPA 353.2 SM 4500P-E SM 2320B EPA 351.2	0.04 0.040 8.0 0.20	0.01 0.010 2.0 0.05	09/12/12 09:55 09/10/12 16:20	09/12/12 11:02 09/14/12 13:12 09/10/12 10:47 09/13/12 11:47	MMF MMF TJH MMF



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Work Order: 1210253

Hazen and Sawyer 10002 Princess Palm Ave, Suite 200

Tampa, FL 33619

Project Name		Hillsborough Co	unty C-HS4 SI	E#1				
Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	Ву
Sample Description		CHS4-PZ05						
Matrix		Groundwater						
SAL Sample Number		1210253-11						
Date/Time Collected		09/06/12 14:30						
Collected by		Josephine Edeback-H	lirst					
Date/Time Received		09/06/12 17:00						
Client Provided Field Data								
На		5.0						
Temperature		26.1 °C						
Conductivity		687 umhos						
Dissolved Oxygen		2.4 mg/L						
Inorganics								
Ammonia as N	mg/L	0.19	EPA 350.1	0.040	0.009		09/11/12 15:08	MMF
Chemical Oxygen Demand	mg/L	40	EPA 410.4	25	10	09/11/12 09:00	09/11/12 11:10	CDE
Chloride	mg/L	30	EPA 300.0	0.20	0.050		09/18/12 16:55	JAG
Nitrate+Nitrite (N)	mg/L	8.0	EPA 353.2	0.20	0.05		09/12/12 11:33	MMF
Phosphorous - Total as P	mg/L	0.062	SM 4500P-E	0.040	0.010	09/12/12 09:55	09/14/12 13:13	MMF
Total Alkalinity	mg/L	9.4	SM 2320B	8.0	2.0		09/10/12 10:47	TJ⊦
Total Kjeldahl Nitrogen	mg/L	3.3	EPA 351.2	0.20	0.05	09/10/12 16:23	09/14/12 12:11	MMF
Sample Description		CHS4-PZ06						
Matrix		Groundwater						
SAL Sample Number		1210253-12						
Date/Time Collected		09/06/12 15:00						
Collected by		Josephine Edeback-H	lirst					
Date/Time Received		09/06/12 17:00						
Client Provided Field Data								
pH		4.8						
Temperature		26.1 °C						
Conductivity		380 umhos						
Dissolved Oxygen		4.0 mg/L						
Inorganics								
Ammonia as N	mg/L	0.16	EPA 350.1	0.040	0.009		09/11/12 15:14	MMF
Chemical Oxygen Demand	mg/L	67	EPA 410.4	25	10	09/11/12 09:00	09/11/12 11:10	CDE
Chloride	mg/L	14	EPA 300.0	0.20	0.050		09/18/12 16:55	JAG
Nitrate+Nitrite (N)	mg/L	0.11	EPA 353.2	0.04	0.01		09/12/12 11:07	MMF
Phosphorous - Total as P	mg/L	3.1	SM 4500P-E	0.20	0.050	09/12/12 09:55	09/14/12 13:59	MMF
Total Alkalinity	mg/L	8.4	SM 2320B	8.0	2.0		09/10/12 10:47	TJF
Total Kjeldahl Nitrogen	mg/L	2.0	EPA 351.2	0.20	0.05	09/10/12 16:23	09/14/12 12:13	MMF



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BI21012 - COD prep										
Blank (BI21012-BLK1)					Prepared 8	Analyzed:	09/11/12			
Chemical Oxygen Demand	10 U	25	10	mg/L						
LCS (BI21012-BS1)					Prepared &	Analyzed:	09/11/12			
Chemical Oxygen Demand	47	25	10	mg/L	50		94	90-110		
Matrix Spike (BI21012-MS1)		Source: 1	210253-10		Prepared &	Analyzed:	09/11/12			
Chemical Oxygen Demand	90	25	10	mg/L	50	47	86	85-115		
Matrix Spike Dup (BI21012-MSD1)		Source: 1	210253-10		Prepared &	Analyzed:	09/11/12			
Chemical Oxygen Demand	90	25	10	mg/L	50	47	86	85-115	0	32
Batch BI21057 - Digestion for T	KN by EPA 3	51.2								
Blank (Bl21057-BLK1)					Prepared:	09/10/12 Ar	alyzed: 09/	/13/12		
Total Kjeldahl Nitrogen	0.05 U	0.20	0.05	mg/L						
LCS (BI21057-BS1)					Prepared:	09/10/12 Ar	alyzed: 09/	/13/12		
Total Kjeldahl Nitrogen	2.32	0.20	0.05	mg/L	2.5		92	90-110		
Matrix Spike (BI21057-MS1)		Source: 1	210131-07		Prepared:	09/10/12 Ar	alyzed: 09/	'13/12		
Total Kjeldahl Nitrogen	3.05	0.20	0.05	mg/L	2.5	0.697	93	80-120		
Matrix Spike Dup (Bl21057-MSD1)		Source: 1	210131-07		Prepared:	09/10/12 Ar	alyzed: 09/	/13/12		
Total Kjeldahl Nitrogen	3.14	0.20	0.05	mg/L	2.5	0.697	97	80-120	3	20
Batch BI21058 - Digestion for T	KN by EPA 3	51.2								
Blank (BI21058-BLK1)					Prepared:	09/10/12 Ar	alyzed: 09/	/14/12		



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BI21058 - Digestion for	TKN by EPA 3	51.2								
LCS (BI21058-BS1)					Prepared:	09/10/12 Ar	nalyzed: 09	/14/12		
Total Kjeldahl Nitrogen	2.54	0.20	0.05	mg/L	2.5		100	90-110		
Matrix Spike (BI21058-MS1)		Source: 1	210248-02		Prepared:	09/10/12 Ar	nalyzed: 09	/14/12		
Total Kjeldahl Nitrogen	2.84	0.20	0.05	mg/L	2.5	0.781	81	80-120		
Matrix Spike Dup (BI21058-MSD1)	Source: 1	210248-02		Prepared:	09/10/12 Ar	nalyzed: 09	/14/12		
Total Kjeldahl Nitrogen	3.03	0.20	0.05	mg/L	2.5	0.781	89	80-120	7	20
Batch Bl21111 - Ammonia by	SEAL									
Blank (Bl21111-BLK1)					Prepared &	& Analyzed:	09/11/12			
Ammonia as N	0.009 U	0.040	0.009	mg/L						
LCS (BI21111-BS1)					Prepared &	& Analyzed:	09/11/12			
Ammonia as N	0.47	0.040	0.009	mg/L	0.50		94	90-110		
Matrix Spike (BI21111-MS1)		Source: 1	210004-07		Prepared &	& Analyzed:	09/11/12			
Ammonia as N	0.51	0.040	0.009	mg/L	0.50	0.027	97	90-110		
Matrix Spike Dup (BI21111-MSD1)	Source: 1	210004-07		Prepared &	& Analyzed:	09/11/12			
Ammonia as N	0.49	0.040	0.009	mg/L	0.50	0.027	93	90-110	4	10
Batch BI21112 - Ammonia by	SEAL									
Blank (BI21112-BLK1)					Prepared 8	& Analyzed:	09/11/12			
Ammonia as N	0.009 U	0.040	0.009	mg/L						



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Work Order: 1210253

Hazen and Sawyer

10002 Princess Palm Ave, Suite 200

Tampa, FL 33619

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Analyte	Result	I QL	iiibe	Onito	Lever	Result	/inteo	Linito		Linin
Batch BI21112 - Ammonia by S	EAL									
LCS (BI21112-BS1)					Prepared &	Analyzed:	09/11/12			
Ammonia as N	0.48	0.040	0.009	mg/L	0.50		96	90-110		
Matrix Spike (BI21112-MS1)		Source: 1	210353-01		Prepared &	Analyzed:	09/11/12			
Ammonia as N	0.47	0.040	0.009	mg/L	0.50	ND	95	90-110		
Matrix Spike Dup (BI21112-MSD1)		Source: 1	210353-01		Prepared &	Analyzed:	09/11/12			
Ammonia as N	0.47	0.040	0.009	mg/L	0.50	ND	93	90-110	2	10
Batch BI21121 - alkalinity										
Blank (BI21121-BLK1)					Prepared &	Analyzed:	09/10/12			
Total Alkalinity	2.0 U	8.0	2.0	mg/L						
Blank (Bl21121-BLK2)					Prepared &	Analyzed:	09/10/12			
Total Alkalinity	2.0 U	8.0	2.0	mg/L						
LCS (BI21121-BS1)					Prepared &	Analyzed:	09/10/12			
Total Alkalinity	120	8.0	2.0	mg/L	120		95	90-110		
LCS (BI21121-BS2)					Prepared &	Analyzed:	09/10/12			
Total Alkalinity	120	8.0	2.0	mg/L	120		95	90-110		
Matrix Spike (BI21121-MS1)		Source: 1	210037-01		Prepared &	Analyzed:	09/10/12			
Total Alkalinity	280	8.0	2.0	mg/L	120	170	86	80-120		
Matrix Spike (BI21121-MS2)		Source: 1	210338-01		Prepared &	Analyzed:	09/10/12			
Total Alkalinity	280	8.0	2.0	mg/L	120	150	103	80-120		



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Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Analyte	Result	FQL	MDL	Units	Levei	Result	/0RLC	LIIIIIIS	NF D	LIIIII
Batch BI21121 - alkalinity										
Matrix Spike Dup (BI21121-MSD1)		Source: 1	210037-01		Prepared &	& Analyzed:	09/10/12			
Total Alkalinity	290	8.0	2.0	mg/L	120	170	95	80-120	4	26
Matrix Spike Dup (Bl21121-MSD2)		Source: 1	210338-01		Prepared &	& Analyzed:	09/10/12			
Total Alkalinity	280	8.0	2.0	mg/L	120	150	103	80-120	0	26
Batch BI21201 - Nitrate 353.2 by	/ seal									
Blank (BI21201-BLK1)					Prepared 8	& Analyzed:	09/12/12			
Nitrate+Nitrite (N)	0.01 U	0.04	0.01	mg/L						
LCS (BI21201-BS1)					Prepared &	& Analyzed:	09/12/12			
Nitrate+Nitrite (N)	0.779	0.04	0.01	mg/L	0.80		97	90-110		
Matrix Spike (BI21201-MS1)		Source: 1	210051-01		Prepared &	& Analyzed:	09/12/12			
Nitrate+Nitrite (N)	1.25	0.04	0.01	mg/L	1.0	0.315	93	77-119		
Matrix Spike Dup (Bl21201-MSD1)		Source: 1	210051-01		Prepared &	& Analyzed:	09/12/12			
Nitrate+Nitrite (N)	1.27	0.04	0.01	mg/L	1.0	0.315	96	77-119	2	20
Batch BI21223 - Digestion for T	P by EPA 36	5.2/SM4500	PE							
Blank (Bl21223-BLK1)					Prepared:	09/12/12 Ar	nalyzed: 09	/14/12		
Phosphorous - Total as P	0.010 U	0.040	0.010	mg/L						
LCS (BI21223-BS1)					Prepared:	09/12/12 Ar	nalyzed: 09	/14/12		
Phosphorous - Total as P	0.839	0.040	0.010	mg/L	0.80		105	90-110		



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Tampa, FL 33619

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BI21223 - Digestion for T	P by EPA 36	5.2/SM4500I	PE							
Matrix Spike (BI21223-MS1)		Source: 1	210183-05		Prepared:	09/12/12 Ar	nalyzed: 09	/14/12		
Phosphorous - Total as P	1.03	0.040	0.010	mg/L	1.0	0.0379	99	75-125		
Matrix Spike Dup (BI21223-MSD1)		Source: 1	210183-05		Prepared:	09/12/12 Ar	nalyzed: 09	/14/12		
Phosphorous - Total as P	1.04	0.040	0.010	mg/L	1.0	0.0379	100	75-125	1	25
Batch Bl21241 - alkalinity										
Blank (Bl21241-BLK1)					Prepared &	& Analyzed:	09/11/12			
Total Alkalinity	2.0 U	8.0	2.0	mg/L						
LCS (BI21241-BS1)					Prepared &	& Analyzed:	09/11/12			
Total Alkalinity	120	8.0	2.0	mg/L	120		95	90-110		
Matrix Spike (BI21241-MS1)		Source: 1	210165-01		Prepared &	& Analyzed:	09/11/12			
Total Alkalinity	290	8.0	2.0	mg/L	120	170	95	80-120		
Matrix Spike Dup (Bl21241-MSD1)		Source: 1	210165-01		Prepared &	& Analyzed:	09/11/12			
Total Alkalinity	290	8.0	2.0	mg/L	120	170	95	80-120	0	26
Batch Bl21825 - Ion Chromatog	graphy 300.0	Prep								
Blank (BI21825-BLK1)					Prepared 8	& Analyzed:	09/18/12			
Chloride	0.050 U	0.20	0.050	mg/L						
LCS (BI21825-BS1)					Prepared &	& Analyzed:	09/18/12			
Chloride	2.75	0.20	0.050	mg/L	3.0		92	85-115		



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Tampa, FL 33619

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BI21825 - Ion Chromat	ography 300.0 F	Prep								
LCS Dup (BI21825-BSD1)					Prepared 8	Analyzed:	09/18/12			
Chloride	2.77	0.20	0.050	mg/L	3.0		92	85-115	0.7	200
Matrix Spike (BI21825-MS1)		Source: 1	210253-06		Prepared 8	Analyzed:	09/18/12			
Chloride	29.0	0.20	0.050	mg/L	3.0	25.4	120	80-120		
Matrix Spike (BI21825-MS2)		Source: 1	210337-02		Prepared 8	Analyzed:	09/18/12			
Chloride	432	0.20	0.050	mg/L	3.0	10100	NR	80-120		
Batch BI22019 - Ion Chromat	ography 300.0 F	Prep								
Blank (BI22019-BLK1)					Prepared 8	Analyzed:	09/20/12			
Chloride	0.050 U	0.20	0.050	mg/L						
LCS (BI22019-BS1)					Prepared 8	Analyzed:	09/20/12			
Chloride	2.82	0.20	0.050	mg/L	3.0		94	85-115		
LCS Dup (BI22019-BSD1)					Prepared 8	Analyzed:	09/20/12			
Chloride	2.81	0.20	0.050	mg/L	3.0		94	85-115	0.4	200
Matrix Spike (BI22019-MS1)		Source: 1	211048-01		Prepared 8	Analyzed:	09/20/12			
Chloride	22.2	0.20	0.050	mg/L	3.0	19.0	107	80-120		
Matrix Spike (Bl22019-MS2)		Source: 1	210337-02		Prepared 8	Analyzed:	09/20/12			
Chloride	5,730 +O	0.20	0.050	mg/L	300	10100	NR	80-120		



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* Qualifiers, Notes and Definitions

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limts and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

For methods marked with **, all QC criteria have been met for this method which is equivalent to a SAL certified method.

Test results in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below. Questions regarding this report should be directed to Client Services at 813-855-1844.

+O Matrix spike source sample was over the reccommended range for the method.



Francis I. Daniels, Laboratory Director Leslie C. Boardman, Q.A. Manager

ST. Project No. DIOP53

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD. OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

Client Name											Contact / Phone:										
Project Name / Location										4											
Hillsborough County C-HS4 SE#1																					
Samplers. (signature) Granges 4-5						PARAMETER / CONTAINER DESCRIPTION															
Matrix Codes: DW-Drinking Water WW-Wastewater SW-SurfaceWater SL-Sludge SO-Soil GW-Groundwater SA-Saline Water O-Other R-Reagent Water Sample Description	Date	Time	Matrix	Composite	Grab	1LP, Cool CI, Total Alkalinity	250mL P, H ₂ SO4 TKN, NOX, NH3, COD, TP					Field Temperature	Field pH	Field Conductivity	Field DO						
01 CHSY - PPOI -7'	09/00/12	9:15	GW		x	1	1					26,8	4,0	540	0.51				+-+		
02 CH34 - DP02 - 7'	- H	9:45	GW	Π	x	1	(26.7	4.5	596	0.20				+		
03 CHSY - DP03 - 7'	u	10:30	GW	\square	x	1	1					26.9	4.8	639	1.86			1-	+-+		
al CHSY - PZO1 - 10'	H	11:00	GW	Π	x	l	,					26,8	4.3	669	0.86			\perp	4		
05 CH54- P201-10'-DUP	11	11:05	GW	Π	x	1	1					26.8	4.3	669	0.86			\perp	4		
00 CH34 - P204-	11	11:45	GW		x	t	1					27.8	3.9	801	7.07				+-		
07 CHS4- P203	11	12:00	GW	\square	x	l	1					26.6	3.5	210	1.2	¢		1-	- <u> </u>		
08 CHS4 - DP-000 06	11	121205	GW		x	+	1					26.1	5,1	488	0.6						
Ug CHSM - DP= 04	11	17:20	GW	TT	x	1	1					JL, D	5,5	747	1.4						
10 CH34 - DP-05	11	13:45	GW		x))		·			26.0	4.8	350	1.4						
11 CHS4- PZ05	11	14:20	GW	\square	x	1	1					26.1	\$5.0	687	2.4						
12 CHS9- 1206	X	14+ 15:00	GW		x	1	1		<u></u>			26.1	545	310	4.0		Τ				
Containers Prepared/ Relinquished: Provide State Stress (S30 8/28/2	Received:	Þς		Date/	Time:		I		Seal intact?				Y N NO		Instructions / Remarks:						
Relinquished: UPC	Received:	100 H	ñ	Date/	8/20	7/12	13:0	Samples intact upon arrival? Received on ice? Temp				۲ ۵ N									
Relinquished: Relinquished: Date/Time: Date/Time: Date/Time:	Received:	ectived: Date/Time				- 06-13				Proper preservatives indicated? Rec'd within holding time? Volatiles rec'd w/out headspace?				N/A							
Relinquished: Date/Time:	Received:			Date/	Time:				Proper containers used?												

Chain of Custody.xls Rev.Date 11/19/01

Chain of Custody



Appendix C: Groundwater Screening

	Site	C-HS4 G	Ground		Table C creeni		nber 3 and 4	, 2012 ¹	
Location	Screening Interval (ft bgs)	Temp (°C)	рН	SC (µS)	DO (mg/ L)	ORP (mV)	Turbidity (NTU) ²	Est. NO3-N (Test Strip mg-N/L)	Est. NO2-N (Test Strip mg- N/L)
	6-10'	23.8	5.19	311.0	0.77	38.8	443	0	0
	8-12'	23.8	5.25	268.0	0.94	-65.6	384	0	0
D03	10-14'	NR	6.35	289.0	0.53	-2.7	NR	NR	NR
005	12-16'	23.1	7.08	749.0	2.78	40.3	MAX	NR	NR
	16-20'	NR	NR	NR	NR	NR	NR	NR	NR
	21-25'	NR	NR	NR	NR	NR	NR	NR	NR
	6-10'	23.8	5.02	466.0	1.34	-95.3	5.47	5	0
	8-12'	24.0	5.62	491.0	0.96	-135.0	761	1	0
D05	10-14'	24.5	5.75	452.0	2.14	-106.4	623	0	0
005	12-16'	24.6	5.74	365.0	0.86	-175.4	50.1	0	0
	14-18'	24.6	5.94	404.0	3.16	-135.8	80.1	0	0
	16-20'	NR	NR	NR	NR	NR	NR	NR	NR
	8-12'	24.2	4.52	143.7	1.79	-118.7	19	0	0
BKG-	10-14'	24.3	5.67	173.7	4.02	-122.4	29.5	0	0
PZ03	12-16'	24.1	6.06	126.7	1.03	-213.5	664	0	0
1.0	14-18'	24.2	6.23	166.5	3.53	-228.8	MAX	0	0

¹Groundwater screening samples collected using a direct push rig

,105

1	IS4				SI		ibsonton, Florida					
WELL NO:	bay	rd D-Di	3	SAMPLI	ID: DP-1	14 Ver	hal Gh	1	DATE:	121	3/12	
	-				PURC	SING DA	ATA 10'-	61	-			
WELL	(inches): 1.5	TUBIN	G TER (inches)		TH: 16 fe		feet TO WAT			PURGE	PUMP TYP	E
WELL VOL	UME PURGE: if applicable)	1 WELL VO		TAL WELL DE				WELL CAPACI	TY			
1.1.1.1.1.1	NT VOLUME PL	DOE. 1 EO		10	feet -	6	feet) X	. (05 UBING LENGTH)	gallons	foot	- 0,47	gallons
	if applicable)	INGE: TEG	OIPWENT VC							CELL		
-					allons + (lons/foot X	feet) PURGING	+	Tr	gallons =	gallons
	MP OR TUBING WELL (feet):	3		IMP OR TUBIN WELL (feet):	3	PURGI		ENDED AT:			OTAL VOLUI URGED (gall	
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 μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBI (NTU		COLOR (describe)	OBOR (describe)
8:50	26	26	1	71	5.31	23.5	314	0.69	MAX		bour	8.Ymv
8:54	21	YL		+	5,43	23.7	317	0.93	802	r	fan	26. Your
8:58	26	62		7'	5,19	23.8	311	0.77	447	3	ten	38,8ml
	1		1		1.2.2.1	1.5	1.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1
				1				-				
	(_	-	-					-	-		
			-	-					-			-
		_	1	-					-			-
	ter ter	1.12	1			5-00-1	10.000					
												-
	ACITY (Gallons				1.25" = 0.00 = 0.0014;			4" = 0.65; .004; 3/8" = 0		6" 1/2" = (" = 5.88 " = 0.016
TODING IN	OIDE DIA. OAI								.000,		0.010, ore	
PURGING	EQUIPMENT C		B = Bailer;	BP = Bladder		SP = Electric	Submersible Pu	22. A	eristaltic P	ump;	O = Othe	r (Specify)
		ODES: E			SAMP	LING D	Submersible Pu	22. A	eristaltic P	ump;	0 = Othe	1 - V - 5-3
SAMPLED	BY (PRINT) / A	ODES: E	B = Bailer;	SAMPLER(S	SIGNATURE	LING D	Submersible Pu	mp; PP = Pe			SAMPLING	r (Specify)
SAMPLED	BY (PRINT) / AI	ODES: E	B = Bailer;	SAMPLER(S	SAMP	LING D	Submersible Pu ATA	SAMPLING	r: 8:5	0	SAMPLING ENDED AT:	r (Specify) 8:58
SAMPLED	BY (PRINT) / AI h thrst TUBING WELL (feet):	DDES: E FILIATION: Has	B = Bailer;	SAMPLER(S	Pump; E SAMP SIGNATURE	LING D	Submersible Pu ATA	SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty	r: 8:5 N pe:	0	SAMPLING ENDED AT: FILTER SIZE	r (Specify)
SAMPLED	BY (PRINT) / AI	DDES: E FILIATION: Has	B = Bailer;	SAMPLER(S	Content of the second s	LING D. =(5): 	Submersible Pu ATA FIELD Filtrati replaced)	SAMPLING INITIATED AT	r: 8:5 N pe:	0	SAMPLING ENDED AT: FILTER SIZE	r (Specify) 8-58 ::µm
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE	ODES: E FFILIATION: Has N: PUN R SPECIFIC,	3 = Bailer; > MP Y	SAMPLER(S Operative TUBING MATERIAL C	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (IRESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN	PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE	r: 8 5 pe: Y ED	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S	r (Specify) 8-58 E:µm AMPLE PUMP
SAMPLED	BY (PRINT) / AI HT HTS TUBING WELL (feet): CONTAMINATIC	N: PUN	3 = Bailer; > MP Y	SAMPLER(S OS TUBING MATERIAL C	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	LING D. =(5): 	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty DUPLICATE:	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) 8-58 ::µm
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED	BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; > //P Y ATION	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION	Submersible Pu ATA FIELD Filtrati replaced) DN FINAL	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8 5 pe: Y ED ND/OR	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	BY (PRINT) / AI	ODES: E FFILIATION: Has N: PUN R SPECIFIC, MATERIAL	3 = Bailer; AP Y ATION VOLUME	SAMPLER(S TUBING MATERIAL C N PRESERVAT	Pump; E SAMP SIGNATURE Code: TUBING SAMPLE PF	Y N (I RESERVATION D IN FIELD	Submersible Pu ATA FIELD Filtrati replaced) DN (mL) FINAL pH	mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AT	r: 8:55 pe: Y ED ND/OR D	SAM	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT DDE (r (Specify) &: 58 ::µm AMPLE PUMP FLOW RATE
SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE REMARKS: MATERIAL	BY (PRINT) / AI	AG = Amber	B = Bailer; AP Y ATION VOLUME Glass; CG APP = After F	SAMPLER(S TUBING MATERIAL C N PRESERVAT USED	Pump; E SAMP SIGNATURE CODE: TUBING SAMPLE PF ADDE IVE ADE PE = Poly B = Bai	Y N (I RESERVATION D IN FIELD	Submersible Pu ATA FIELD Filtrati replaced) DN (mL) FINAL pH	INP; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AI METHO Hene; S = Silico ESP = Electr	r: 8:55 pe: Y ED ND/OR D	SAM EQUI CC	SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT DDE () ; 0 = Oth Pump;	r (Specify) & 58

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 12, 2009

WELL NO:	S4				SI LC		bsonton, Florida				
WELL NO:	Gha	1 D-3	3	SAMPLE	ID: DP -	OY VO	vticel c	w	DATE:	2/3/12	
						AING DA	TA 12'	-8'			
NELL	(inches): 15	DIAME	G TER (inches):		LL SCREEN		feet TO WATE			RGE PUMP T BAILER:	YPE
WELL VOL			LUME = (TO	TAL WELL DEP	PTH - STA		TO WATER) X	WELL CAPAC	пү	ot = 0,6	z Z.Yal
	T VOLUME PU	RGE: 1 EQU	JIPMENT VO	L. = PUMP VOL	UME + (TUB	ING CAPAC	түх т	UBING LENGTH	+ FLOW CE	ELL VOLUME	
	MP OR TUBING			= g	allons + (gall PURGI	ons/foot X	feet)	+	gallons TOTAL VOL	
	VELL (feet):			WELL (feet):		INITIAT		ENDED AT:		PURGED (g	gallons):
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	WATER (feet)	pH (standard units)	темр. (°С)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBIDI (NTUs)		
D9-10	24	22		71	5.35	23.4	a50	0,81	MAX	bour	- Folmu
69:16	26	YL		7'	5.29	23.8	251	0.88	906	tan	-44.5m
09:21	26	6L	1000	71	5,51	23.8	263	1.01	432	ten	-58.9 M
09:25	IL	7L	-	7	5:25	23.8	268	0.99	384	tan	-65.6nV
							/				
			-		-			A	in	_	-
TUBING INS PURGING E	SIDE DIA. CAP	ACITY (Gal./ ODES: B		1" = 0.04; .0006; 3/16" BP = Bladder F	= 0.0014; Pump; E: SAMP	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pur	004; 3/8" = 0 mp; PP = Pe		" = 0.010; p; 0 = 0	12" = 5,88 5/8" = 0.016 ther (Specify)
TUBING INS PURGING E	SIDE DIA. CAP QUIPMENT C	ACITY (Gal./ ODES: B FILIATION:	Ft.): 1/8" = 0	.0006; 3/16* BP = Bladder F SAMPLER(S)	= 0.0014; Pump; E SAMP SIGNATURE	1/4" = 0.002 SP = Electric LING DA (S):	26; 5/16" = 0. Submersible Pur	004; 3/8" = 0	.006; 1/2 eristaltic Pum	" = 0.010; p; 0 = 0	5/8" = 0.016 ther (Specify)
	SIDE DIA. CAP QUIPMENT CO BY (PRINT) / AI G. Hin2-f UBING	ACITY (Gal./ ODES: B FILIATION:	Ft.): 1/8" = 0	BP = Bladder F SAMPLER(S)	= 0.0014; Pump; E: SAMP SIGNATURE	1/4" = 0.002 SP = Electric LING DA (S):	26; 5/16" = 0. Submersible Pur ATA FIELD	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	.006; 1/2 eristaltic Pum F: 09 :07 N	" = 0.010; p; 0 = 0 SAMPLIN ENDED A	5/8" = 0.016 ther (Specify)
TUBING INS PURGING E SAMPLED E Joyce PUMP OR T DEPTH IN V	SIDE DIA. CAP QUIPMENT CO BY (PRINT) / AI G. Hin2-f UBING	ACITY (Gal./I ODES: B FFILIATION:	Ft.): 1/8" = 0 = Bailer;	BP = Bladder F SAMPLER(S)	= 0.0014; Pump; E: SAMP SIGNATURE	1/4" = 0.003 SP = Electric LING D/ (S):	26; 5/16" = 0. Submersible Pur ATA FIELD Filtratic	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT	.006; 1/2 pristaltic Pum r: 09 .07 N pe:	" = 0.010; p; 0 = 0 SAMPLIN ENDED A	5/8" = 0.016 ther (Specify) G T: 09:20
TUBING INS PURGING E SAMPLED E Joya PUMP OR T DEPTH IN V FIELD DECO	SIDE DIA. CAP COUIPMENT CI BY (PRINT) / AI G. Hhr-f UBING VELL (feet):	ACITY (Gal./) DDES: B FFILIATION: N: PUM	Ft.): 1/8" = 0 = Bailer; IP Y N	BP = Bladder F SAMPLER(S) TUBING MATERIAL C	= 0.0014; Pump; E: SIGNATURE SIGNATURE SIGNATURE ODE:	1/4" = 0.002 SP = Electric LING DA (S): Y N (r	26; 5/16" = 0. Submersible Pur ATA FIELD Filtratic eplaced)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty	.006; 1/2 aristaltic Pum F: 09 - 07 N pe: Y	" = 0.010; p; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = 0.016 ther (Specify) G T: 09:20
TUBING INS PURGING E SAMPLED E Joya PUMP OR T DEPTH IN V FIELD DECC SAMPLE		ACITY (Gal./) DDES: B FFILIATION: N: PUM	Ft.): 1/8" = 0 = Bailer; IP Y N	BP = Bladder F SAMPLER(S) TUBING MATERIAL C	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA (S): Y N (r	FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe INITIATED AT FILTERED: Y on Equipment Tyj UUPLICATE:	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; 0 = 0 SAMPLIN ENDED A FILTER S N	5/8" = 0.016 ther (Specify) G T: 09:26 IZE:µm
TUBING INS PURGING E SAMPLED E Joya PUMP OR T FIELD DECC SAMPLE	SIDE DIA. CAP QUIPMENT C BY (PRINT) / AI CAP HA2- UBING VELL (feet): DNTAMINATIO LE CONTAINE #	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL	FIELD FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE
TUBING INS PURGING E SAMPLED E Joya PUMP OR T FIELD DECC SAMPLE	SIDE DIA. CAP QUIPMENT C BY (PRINT) / AI CAP HA2- UBING VELL (feet): DNTAMINATIO LE CONTAINE #	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL	FIELD FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE
TUBING INS PURGING E SAMPLED E Joya PUMP OR T DEPTH IN V FIELD DECC SAMPLE	SIDE DIA. CAP QUIPMENT C BY (PRINT) / AI CAP HA2- UBING VELL (feet): DNTAMINATIO LE CONTAINE #	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL	FIELD FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE
TUBING INS PURGING E SAMPLED E Joya PUMP OR T FIELD DECC SAMPLE	SIDE DIA. CAP QUIPMENT C BY (PRINT) / AI CAP HA2- UBING VELL (feet): DNTAMINATIO LE CONTAINE #	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL	FIELD FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE
SAMPLED E SAMPLED E Joya PUMP OR T FIELD DECO SAMPLE	SIDE DIA. CAP QUIPMENT C BY (PRINT) / AI CAP HA2- UBING VELL (feet): DNTAMINATIO LE CONTAINE #	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL	FIELD FIELD Filtratic eplaced) FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	1/2 eristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR E	* = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE
AEMARKS:	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI G. HH2- UBING VELL (feet): ONTAMINATIO LE CONTAINERS	ACITY (Gal./ ODES: B FILIATION: N: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0 = Bailer; IP Y N NTION VOLUME	0006; 3/16 BP = Bladder F SAMPLER(S) SAMPLER(S) TUBING MATERIAL CO N PRESERVAT	= 0.0014; Pump; E: SIGNATURE SIGNATURE DODE: TUBING SAMPLE PR IVE T	1/4" = 0.002 SP = Electric LING DA (S): Y N (r ESERVATION OTAL VOL D IN FIELD (26; 5/16" = 0. Submersible Pur ATA FIELD FILD Filtratio eplaced) DN FINAL pH	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AI METHO	1006; 1/2 aristaltic Pum F: 09 - 07 N pe: Y ED S ND/OR EI D	" = 0.010; p; O = O SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT CODE	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE (mL per minute)
TUBING INS PURGING E SAMPLED E Joya PUMP OR T DEPTH IN V FIELD DECC SAMPLE ID CODE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI G. HH2- UBING VELL (feet): ONTAMINATIO LE CONTAINERS	ACITY (Gal./ DDES: B FILIATION: N: PUN R SPECIFICA MATERIAL CODE AG = Amber (CODES: A	Ft.): 1/8" = 0 = Bailer; IP Y N NTION VOLUME Glass; CG :	0006; 3/16 BP = Bladder F SAMPLER(S) Control Sampler TUBING MATERIAL CON PRESERVAT USED	= 0.0014; Pump; E: SIGNATURE SIGNATURE DDE: TUBING SAMPLE PR IVE ADDE PE = Poly B = Bail	1/4" = 0.002 SP = Electric LING DA ((S): Y N (r ESERVATIO OTAL VOL D IN FIELD (OTAL VOL D IN FIELD (ethylene; er; BP =	FIELD FIELD Filtratic eplaced) FINAL	ene; S = Silico	.006; 1/2 aristaltic Pum f: 09::07 N pe: Y ED S ND/OR EI D Image: T = Te	" = 0.010; p; 0 = 0 SAMPLIN ENDED A FILTER S N SAMPLING QUIPMENT CODE	5/8" = 0.016 ther (Specify) G T: 09:2C IZE:μm SAMPLE PUMP FLOW RATE

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

ME: C-H	S4					TE DCATION: Git	bsonton, Florida	4	1				
VELL NO:	Gric	1 D-3	1	SAMP	LE ID: DP-	UY Ver	thal au	J	DATE:	12/	3/12		
					PURC	GING DA	TA						
VELL			ETER (inches)	D	EPTH: U	et to 10	feet TO WAT	ER (feet):		PURGE	EPUMP T LER:	YPE	
only fill out	If applicable)		= (14	feet -	6	feet) >	WELL CAPACI	gallons	s/foot	= 0.	17 L 84 gallo	15
	if applicable)	URGE: 1 EQ	UIPMENT VO	L, = PUMP V	OLUME + (TUE gallons + (ITY X T ons/foot X	UBING LENGTH) feet)		CELL	gallons	= gallo	s
	MP OR TUBIN WELL (feet):	G		MP OR TUBI	NG	PURGIN	IG	PURGING ENDED AT:			OTAL VOL	UME	
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE	DEPTH	pH (standard	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURB (NTI		COLO (descrit		3)
09:40	12	1L	1		6.35		289	0.53			black	1 -2.7	V
Clay	laner?	Mony	plugge	a - slan	going	world	not pro	ever ".	mov	ed	du	~2'	-1
•	0								1 1 1				1
				1		11	1						
-						1	1						11
						1							-
		-	-		-						-	-	-
-			-										
	ACITY (Gallon SIDE DIA. CAI				1.25 " = 0.0 6 " = 0.0014;	6; 2" = 0.1 1/4" = 0.002			5″ = 1.02; 006;	; 6" 1/2" = (= 1.47; 0.010;	12" = 5.88 5/8" = 0.016	
UBING INS		PACITY (Gal.			6" = 0.0014; r Pump; E	1/4" = 0.002 SP = Electric	26; 5/16" = 0 Submersible Po	.004; 3/8 ^a = 0.		1/2" = (0.010;		
UBING INS URGING E	SIDE DIA. CAI	PACITY (Gal. ODES: I	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde	6" = 0.0014; r Pump; E SAMP	1/4" = 0.002 SP = Electric	26; 5/16" = 0 Submersible Po	0.004; 3/8" = 0. ump; PP = Pe	006;	1/2" = (² ump;	0.010; 0 = 0	5/8" = 0.016 ther (Specify)	
URGING E	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	FFILIATION:	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde	6" = 0.0014; r Pump; E	1/4" = 0.002 SP = Electric LING D/ E(S):	26; 5/16" = 0 Submersible Po	.004; 3/8 ^a = 0.	006; ristaltic P	1/2" = (² ump;	0.010;	5/8" = 0.016 ther (Specify)	
	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW. HW FUBING	FFILIATION:	/Ft.): 1/8" = (B = Bailer;	D.0006; 3/1 BP = Bladde SAMPLER(JU TUBING	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI	1/4" = 0.002 SP = Electric LING D/ E(S):	Submersible Po ATA	0.004; 3/6" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y	006; ristaltic F : N	1/2" = (² ump;	0 = 0 SAMPLIN ENDED A	5/8" = 0.016 ther (Specify)	
URGING IN URGING E AMPLED E O M UMP OR T EPTH IN V	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW FUBING VELL (feet):	FFILIATION:	/Ft.): 1/8" = (8 = Bailer;	D.0006; 3/1 BP = Bladde SAMPLER(UBING MATERIAL	6" = 0.0014; r Pump; E S SIGNATURI کی کی SIGNATURI CODE:	1/4" = 0.002 SP = Electric LING DA	5/16" = 0 Submersible Po ATA FIELD Filtrat	0.004; 3/6" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ	006; ristaltic F : N pe:	1/2" = (² ump;	0.010; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = 0.016 ther (Specify) IG T:	
URGING IN URGING E O 0 M UMP OR T EPTH IN V IELD DECO	SIDE DIA. CAI EQUIPMENT O BY (PRINT) / A HW HW FUBING WELL (feet): ONTAMINATIO	PACITY (Gal. CODES: 1 SFFILIATION: SF DN: PUI	/Ft.): 1/8*=(B = Bailer; MP Y	D.0006; 3/1 BP = Bladde SAMPLER(JU TUBING	6" = 0.0014; r Pump; E S SIGNATURI کی کی کی CODE: TUBING	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (m	Submersible Po Submersible Po ATA FIELD Filtrat eplaced)	0.004; 3/6" = 0. ump; PP = Pe SAMPLING (NITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE:	006; ristaltic F : N be: Y	1/2" = (² ump;	0 = 0 SAMPLIN ENDED A FILTER S	5/8" = 0.016 ther (Specify) IG .T: IZE: μm	
AMPLED E AMPLED E O OK UMP OR T EPTH IN V IELD DECO SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW FUBING VELL (feet):	PACITY (Gal. CODES: 1 SFFILIATION: SF DN: PUI	/Ft.): 1/8* = (B = Bailer; MP Y	D.0006; 3/1 BP = Bladde SAMPLER(UBING MATERIAL	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 SP = Electric LING DA	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/6" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = 0.016 ther (Specify) IG T:	IP
AMPLED E AMPLED E O OK UMP OR T EPTH IN V IELD DECO SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW HUBING WELL (feet): ONTAMINATIC LE CONTAINE	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 (SP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/8" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP
AMPLED E O SAMP EAMPLED E O SAMP	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW HUBING WELL (feet): ONTAMINATIC LE CONTAINE	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 (SP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/8" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP
AMPLED E COMPORT	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW HUBING WELL (feet): ONTAMINATIC LE CONTAINE	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 (SP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/8" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP
AMPLED E COMPORT	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A HW HW HUBING WELL (feet): ONTAMINATIC LE CONTAINE	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 (SP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/8" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP
AMPLED E COMPORT	SIDE DIA. CAI	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE	1/4" = 0.002 (SP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL	Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/8" = 0. ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; ristaltic F : N be: Y D	1/2" = (² ump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP
AMPLED E O SAMPLED E O SAMPLE DEPTH IN V IELD DECC SAMPLE D CODE	SIDE DIA. CAN	PACITY (Gal. CODES: I SFILIATION: SFILIATI	/Ft.): 1/8* = (B = Bailer; MP Y ATION VOLUME	D.0006; 3/1 BP = Bladde SAMPLER(J TUBING MATERIAL N PRESERV/	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF ATIVE ADDE	1/4" = 0.002 ISP = Electric LING D/ E(S): Y N (m RESERVATIO TOTAL VOL D IN FIELD (Submersible Po Submersible Po ATA FIELD Filtrat eplaced) IN FINAL	0.004; 3/6" = 0. JIMP; PP = Pe SAMPLING (NITIATED AT D-FILTERED: Y ion Equipment Typ DUPLICATE: INTENDE ANALYSIS AN METHOL	006; ristaltic P : Noe: Y :D ND/OR D	1/2" = (2ump; SAM EQUI CC	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT DDE	5/8" = 0.016 ther (Specify) IG .Τ: IZE:μm SAMPLE PUM FLOW RATI	IP

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

	IS4				SI	· · · · · · · · · · · · · · · · · · ·	sonton, Florida					
WELL NO:	Grid	03		SAMPLE I	D: DP-D	y Varti	ital bu		DATE:	121	5/12	
				-	PURG	ING DA			-	1.1.	-1	
WELL			TER (inches):	DEPT		et to 12 f		ER (feet):		PURGE	EPUMP TYP LER:	E
(only fill out	if applicable)		= (TAL WELL DEPT	eet- 6		feet) X		gallons	/foot CELL \		gallons
10.00			1		ons+(ons/foot X	feet)	*	-	gallons =	gallons
	MP OR TUBIN WELL (feet):	G		MP OR TUBING WELL (feet):		PURGIN	-	PURGING ENDED AT:			OTAL VOLU URGED (gal	the state of the s
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (galions)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^o C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBI (NTL		COLOR (describe)	(describe)
09:50	IL_	IL	11.		7.08	23.1	749	2.78	MI	4+	BROW	v 40.
	notp	roluc	n eg			2.22.31						
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	1				-							
				1							-	-
				-					-			-
									1			11
TUBING IN PURGING I	SIDE DIA. CAI	PACITY (Gal./ CODES: E	(Ft.): 1/8" = 0	BP = Bladder Pu	0.0014; mp; E SAMP	1/4" = 0.002 SP = Electric	6; 5/16" = 0. Submersible Pu	.004; 3/8 " = 0	5" = 1.02; .006; eristaltic P	1/2" = 0	0.010; 5/	2" = 5.88 8" = 0.016 er (Specify)
TUBING IN PURGING I SAMPLED	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	PACITY (Gal./ CODES: E	(Ft.): 1/8" = 0	.0006; 3/16" = BP = Bladder Pu SAMPLER(S) S	0.0014; mp; E SAMP	1/4" = 0.002 SP = Electric LING DA (S):	6; 5/16" = 0. Submersible Pu	.004; 3/8 " = 0	.006; eristaltic P	<u>1/2" = 0</u> ump;	0.010; 5/	8" = 0.016 er (Specify)
	SIDE DIA. CAI EQUIPMENT O BY (PRINT) / A Hin Hay TUBING	PACITY (Gal./ CODES: E	(Ft.): 1/8" = 0	.0006; 3/16" = BP = Bladder Pu SAMPLER(S) S	IGNATURE	1/4" = 0.002 SP = Electric LING DA (S):	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	.006; eristaltic P	1/2" = 0 'ump;	0.010; 5/ 0 = Othe SAMPLING	8" = 0.016 er (Specify)
TUBING IN PURGING I SAMPLED I JOY PUMP OR T DEPTH IN V	BY (PRINT) / A	FFILIATION:	(Ft.): 1/8" = 0 3 = Bailer;	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S Goute TUBING MATERIAL COI	IGNATURE	1/4" = 0.002 SP = Electric LING DA (S):	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED A1	.006; eristaltic P	<u>1/2" = (</u> ump;	0.010; 5/4 0 = Othe SAMPLING ENDED AT:	8" = 0.016 er (Specify)
TUBING IN PURGING E SAMPLED I J D PUMP OR T DEPTH IN N FIELD DEC	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A H, n Hy TUBING WELL (feet):	REFILIATION:	/Ft.): 1/8" = 0 3 = Bailer; /P Y N	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S UBING MATERIAL COI	0.0014; mp; E: SAMP IGNATURE Market DE: TUBING	1/4" = 0.002 SP = Electric LING DA (S):	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED A1 -FILTERED: Y on Equipment Typ	.006; pristaltic P f: N pe: Y	1/2" = 0	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S	8" = 0.016 er (Specify)
TUBING IN PURGING E SAMPLED I J D PUMP OR T DEPTH IN N FIELD DEC	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A Af, n Hogs TUBING WELL (feet): CONTAMINATIO	REFILIATION:	/Ft.): 1/8" = 0 3 = Bailer; /P Y N	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S UBING MATERIAL COI	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA (S): Y N (re	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Tyj DUPLICATE:	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ: μm
TUBING IN PURGING I JD PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A M, n H M, h MELL (feet): CONTAMINATION PLE CONTAINE #	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y M ATION	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING I JD PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A M, n H M, h MELL (feet): CONTAMINATION PLE CONTAINE #	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y M ATION	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING I JD PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A M, n H M, h MELL (feet): CONTAMINATION PLE CONTAINE #	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y M ATION	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING I JD PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A M, n H M, h MELL (feet): CONTAMINATION PLE CONTAINE #	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y M ATION	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING I JD PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A #(, n H) TUBING WELL (feet): CONTAMINATION PLE CONTAINERS	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y M ATION	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	006; pristaltic P r: N pe: Y ED ND/OR	SAMI EQUI	0.010; 5// 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING S PMENT	8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING I JDY PUMP OR T DEPTH IN N FIELD DEC SAMPLE ID CODE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A #t,n they TUBING WELL (feet): CONTAMINATION PLE CONTAINERS	ACITY (Gal. CODES: E FFILIATION: CODES: E FFILIATION: CODES: E CODES: E COD	/Ft.): 1/8" = 0 3 = Bailer; //P Y N ATION VOLUME	0006; 3/16" = BP = Bladder Pu SAMPLER(S) S TUBING MATERIAL COI N S PRESERVATIV	0.0014; mp; E: SAMP IGNATURE AMP DE: TUBING AMPLE PR E T	1/4" = 0.002 SP = Electric : LING DA (S): Y N (re ESERVATION OTAL VOL D IN FIELD (r	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati placed) N FINAL pH	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED; Y on Equipment Tyj DUPLICATE; INTENDE ANALYSIS AT	initialitic P Peristalitic P Pe: Y ED ND/OR D	SAMI EQUI	0.010; 5/4 0 = Othe SAMPLING ENDED AT: FILTER SIZE N PLING SPMENT DDE (8* = 0.016 er (Specify) Ξ:μm SAMPLE PUMP FLOW RATE

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

ME: C-	HS4				SIT		sonton, Florida					
WELL NO:	Grid	10-3		SAMPLE ID	DP.	-04 Ve	entral 1	500	DATE:	12	3/12	
					PURG	ING DAT	TA 20-	16'				
WELL	R (inches):	TUBIN	G TER (inches):		SCREEN I	NTERVAL	STATIC D	DEPTH		PURG OR BA		YPE
WELL VOI (only fill our	t if applicable)	1 WELL VO	LUME = (TO	TAL WELL DEPTH	- STAT	LIC DEPTH TO	OWATER) X		gallor	s/foot	. 64	ন gallons
(only fill ou	t if applicable)				ns + (ns/foot X	feet)		VOLL	galions	= gallons
	WELL (feet):	3		MP OR TUBING	1 4 . 1	PURGING	3	PURGING ENDED AT:			TOTAL VO	LUME
TIME	VOLUME PURGED (galions)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY "Us)	COLO (descril	
	No W	ATER!		1				is outside of				
	1.2.5									_	-	-
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	1		1	10							1	111
	÷		1									1.
									-		-	-
			-							_	-	
							-				1	-
TUBING IN	SIDE DIA. CAP	ACITY (Gal./	Ft.): 1/8" = 0		0.0014;	1/4" = 0.0026	; 5/16" = 0.	004; 3/8 " = 0.	.006;	1/2" =		12" = 5.88 5/8" = 0.016
PURGING	EQUIPMENT C	ODES: B	I = Bailer;	BP = Bladder Pum		LING DA	ubmersible Pur	mp; PP = Pe	ristaltic	Pump;	0=0	ther (Specify)
SAMPLED	BY (PRINT) / A			SAMPLER(S) SIC			1/3	A CONTRACTOR		1		
	when H		1	\sim	-10			SAMPLING			SAMPLIN ENDED A	
J D				TUBING	14			FILTERED: Y	N		ENDED A	
J D PUMP OR DEPTH IN	TUBING WELL (feet):	nst	IP Y N	TUBING MATERIAL CODI	E:	9	Filtratio	INITIATED AT FILTERED: Y	N De:		ENDED A	NT:
J 07 PUMP OR DEPTH IN FIELD DEC	TUBING	NST DN: PUM		TUBING MATERIAL COD	E: UBING	9	Filtratio	FILTERED: Y	N De: Y	-	ENDED A	NT:
J 07 PUMP OR DEPTH IN FIELD DEC	TUBING WELL (feet): CONTAMINATIC	NST DN: PUM		TUBING MATERIAL COD	E: UBING MPLE PRE	Y N (rep	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE:	N Y D ND/OR	SAN	ENDED A FILTER S	NT: 1/ZE:μm
J D PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMP FLOW RATE
J D PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMP FLOW RATE
J D PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMP FLOW RATE
J D PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMP FLOW RATE
J 67 PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE # CONTAINERS	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMF FLOW RATE
J 67 PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE # CONTAINERS	N: PUM R SPECIFICA MATERIAL	ATION	TUBING MATERIAL CODI N T SA PRESERVATIVE	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL	Filtratio	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR	SAN	ENDED A FILTER S N APLING IPMENT	IZE:μm SAMPLE PUMF FLOW RATE
J D PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE # CONTAINERS	N: PUM R SPECIFICA MATERIAL	VOLUME	TUBING MATERIAL CODI N T SA PRESERVATIVE USED	E: UBING MPLE PRE	Y N (rep ESERVATION OTAL VOL D IN FIELD (m	Filtratic placed)	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Y D ND/OR D	SAN	ENDED A FILTER S N APLING IPMENT ODE	IZE:μm SAMPLE PUMF FLOW RATE
DEPTH IN PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE REMARKS MATERIAL	TUBING WELL (feet): CONTAMINATIC PLE CONTAINE # CONTAINERS	AG = Amber CODES: A	Glass; CG =	TUBING MATERIAL CODI N T SA PRESERVATIVE USED	E: UBING MPLE PRE ADDED DE = Polye B = Baile	Y N (rep ESERVATION OTAL VOL D IN FIELD (m	Filtratic placed)	INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN METHOD ene; S = Silico ESP = Electri	N 200: Y Y VD/OR: D ND/OR: D	SAN EQU C	ENDED A FILTER S N APLING IPMENT ODE	NT: IZE:μm SAMPLE PUMF FLOW RATE (mL per minute

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

SITE \ME: C-H	IS4					TE DCATION: Gib:	sonton, Flo	rida					
VELL NO:	Grid	0.3		SAMPL	EID: DP-D	y verti	cal	GL	D I	DATE:	12	3/12	
						ING DA		5-1		1.0	-		
WELL	(inches):	TUBING	G TER (inches):		ELL SCREEN	INTERVAL et to 35 fe	STAT	TIC DI	EPTH	-	PURG OR BA	E PUMP T	YPE
(only fill out	UME PURGE: if applicable) IT VOLUME P		= (25	feet-	6	feet)	x	WELL CAPACI · 105 BING LENGTH)	gallo	ns/foot V CELL	= 1.9 VOLUME	9 gallo
					gallons + (gallo	ns/foot X		feet)	+		gallons	= gallo
	MP OR TUBIN WELL (feet):	G		MP OR TUBIN WELL (feet):	IG	PURGING			PURGING ENDED AT:			PURGED (
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle unit µmhos/cn or µS/cm	n	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY TUs)	COLO (descril	
	NO	WATE	21	(00000							1.	
				-				_				-	
			-	-	· · · ·			-			_		
				-	-			+		-			-
			1	-			-	-		-		-	
-	1			1	1					-	-		
			1	1				1			-	1	110 1
			1		1							-	
			1		1			217				1.00	
TUBING IN PURGING I	PACITY (Gallon SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	PACITY (Gal./I CODES: B	Ft.): 1/8" = 0	.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E	1/4" = 0.0026 SP = Electric S LING DA	; 5/16" Submersible	= 0.0	np; PP = Pe	.006;	1/2" =	0.010; 0 = 0	12" = 5.88 5/8" = 0.016 ther (Specify)
SAMIFLED	DT (CHINT) / A	FILIATION.		SAMPLER	SIGNATURE	-(3).			SAMPLING INITIATED AT			SAMPLIN ENDED A	
PUMP OR			1	TUBING	DODE:				FILTERED: Y	N		FILTER S	IZE:µm
1	WELL (feet):	DN: PUM	PYN	MATERIAL	TUBING	V N (rei	placed)	tratio	n Equipment Typ DUPLICATE:		1	N	
	LE CONTAINE				SAMPLE PF	ESERVATION			INTENDE	D	SA	APLING	SAMPLE PU
SAMPLE ID CODE	# CONTAINERS	MATERIAL	VOLUME	PRESERVA		OTAL VOL D IN FIELD (m	FINA L) pH		ANALYSIS AM	D/OR	EQU	ODE	FLOW RAT (mL per minu
										-	1		
			_	- <u></u>						_	1		
							1.000		1.				1
							101.0						
REMARKS:													
MATERIAL		AG = Amber		= Clear Glass;					ene; S = Silico		= Teflo		Other (Specify)
SAMPLING	EQUIPMENT			eristaltic Pump se Flow Perist			Bladder Pun Method (Tub		ESP = Electri Gravity Drain);		other (S		
	The above	do not cons	titute all of	the informa	tion require	d by Chapte	r 62-160,	F.A.				рөспу)	

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE 2212, SECTION 31

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 12, 2009

	HS4				LO	and the second sec	sonton , Florida	1				
WELL NO:	6			SAMPLE	ID: GRI	D D-5			DATE:	23	3/12	
						ING DA	TA					
WELL VOL			TER (inches)	: DEI		et to 🖇 fe	STATIC Set TO WAT O WATER) X			PURGI OR BA	e pump t Iler:	YPE
EQUIPMEN	NT VOLUME PU It if applicable)	JRGE: 1 EQ	= (UIPMENT VO		feet - UME + (TUB allons + (feet) X TY X T ns/foot X	UBING LENGTH				gallons = gallons
	JMP OR TUBIN WELL (feet):	G		= g JMP OR TUBINO N WELL (feet):		PURGIN	G	PURGING ENDED AT:			OTAL VO	LUME
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE	DEPTH	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBI (NTU	DITY	COLO (descrit	R ODOR
Now	rate ??			11.12 - 1	1			70 Saluration				
	1.0.0			11.1	5 - T - J							di berri
			4	1 1	·	1	· · · · · · · · · · · · · · · · · · ·				-	
			-		-				-		-	
			-			-			-		-	_
			-		1	-						-
			-								-	
			-									
-	1		1		7 1			1				
	11			al al como		1						
	PACITY (Gallon SIDE DIA, CAP							4" = 0.65; .004; 3/8" = 0				12" = 5.88 5/8" = 0.016
PURGING	EQUIPMENT C	ODES: E	B = Bailer;	8P = Bladder i			Submersible Pu	imp; PP = P	eristaltic P	ump;	0=0	ther (Specify)
					SAMP							
SAMPI ED	BY (PDINT) / A	EEILIATION:		CAMPIER/S		LING DA	TA	1	_	-r	Color Inc.	
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLER(S)			TA	SAMPLING INITIATED A	T:		SAMPLIN ENDED A	
PUMP OR	TUBING	FFILIATION:		TUBING	SIGNATURE		FIELD	INITIATED A	N		ENDED A	
PUMP OR DEPTH IN	TUBING WELL (feet):			TUBING MATERIAL C	SIGNATURE	:(S):	FIELD Filtrat	INITIATED A D-FILTERED: Y ion Equipment Ty	N /pe:		ENDED A	NT:
PUMP OR DEPTH IN FIELD DEC	TUBING WELL (feet): CONTAMINATIO	DN: PUN	MP Y	TUBING	SIGNATURE ODE: TUBING	:(S): Y N (re	FIELD Filtrat placed)	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE:	npe: Y	SAM	ENDED A FILTER S	AT: IZE:μm
PUMP OR DEPTH IN FIELD DEC	TUBING WELL (feet):	DN: PUN	MP Y	TUBING MATERIAL C	SIGNATURE ODE: TUBING SAMPLE PR	:(S):	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty	N Y ED ND/OR	EQU	ENDED A	NT:
PUMP OR DEPTH IN FIELD DEC SAMF	TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	DN: PUN ER SPECIFIC/ MATERIAL	MP Y	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Y ED ND/OR	EQU	ENDED A FILTER S N MPLING IPMENT	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMF	TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	DN: PUN ER SPECIFIC/ MATERIAL	MP Y	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Y ED ND/OR	EQU	ENDED A FILTER S N MPLING IPMENT	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMF	TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	DN: PUN ER SPECIFIC/ MATERIAL	MP Y	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Y ED ND/OR	EQU	ENDED A FILTER S N MPLING IPMENT	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMF	TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	DN: PUN ER SPECIFIC/ MATERIAL	MP Y	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Y ED ND/OR	EQU	ENDED A FILTER S N MPLING IPMENT	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMF	TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	DN: PUN ER SPECIFIC/ MATERIAL	MP Y	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL	FIELD Filtrat placed) N FINAL	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Y ED ND/OR	EQU	ENDED A FILTER S N MPLING IPMENT	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMFLE ID CODE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	DN: PUN ER SPECIFIC/ MATERIAL	MP Y ATION VOLUME	TUBING MATERIAL C N PRESERVAT	SIGNATURE ODE: TUBING SAMPLE PR	Y N (re ESERVATION OTAL VOL D IN FIELD (n	FIELD Filtrat placed) N nL) FINAL pH	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A	N Ppe: Y ED ND/OR D	EQU	ENDED A FILTER S N IPLING IPMENT ODE	AT: IZE:μm SAMPLE PUMF FLOW RATE
PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	DN: PUN R SPECIFIC/ MATERIAL CODE AG = Amber CODES: A	MP Y ATION VOLUME Glass; CG APP = After P	TUBING MATERIAL C N PRESERVAT USED	SIGNATURE	Y N (re) ESERVATION OTAL VOL D IN FIELD (n ethylene; 1 er; BP = 1	PP = Polypropy Bladder Pump;	INITIATED A D-FILTERED: Y ion Equipment Ty DUPLICATE: INTEND ANALYSIS A METHO	N Y ED ND/OR D	EQUI C	ENDED A FILTER S N IPLING IPMENT ODE	NT: IZE: µm SAMPLE PUMF FLOW RATE (mL per minute

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

WELL NO:				SAMPLE	ID: GR	ID D-	5		DATE: 1	23/12	
						GING DA					
	UME PURGE:		TER (inches)	DEI		et to LO	STATIC I TO WATE TO WATER) X		OF	RGE PUMP T BAILER:	/PE
	if applicable)		= (L, = PUMP VOI	feet -		feet) X	UBING LENGTH)	gallons/fo		gallons
	if applicable)	UNGE: TEQU									a all a set
	MP OR TUBIN WELL (feet):	G		= g MP OR TUBINO I WELL (feet):	allons + (G	PURGIN		PURGING ENDED AT:		gallons TOTAL VOL PURGED (g	UME
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 <u>or</u> μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDI (NTUs)		
10:55	22	26	1	1 7'	5.33	23.7	496	0.89	380	blace	N - 193.6
10:58	12L	4L	1	71	5,04	238	471	192	16.7		
11:03	al	66		7'	5.02	23.8	466	1.34	5,47	t clar	95.3
						1.6.1				-	
				1						-	
UBING IN	ACITY (Gallon SIDE DIA. CAI	PACITY (Gal./	0.75" = 0.02; Ft.): 1/8" = 0 = Bailer;	1" = 0.04; .0006; 3/16" BP = Bladder I	= 0.0014;	1/4" = 0.002	6; 3" = 0.37; 6; 5/16" = 0. Submersible Pu	004; 3/8" = 0.		2" = 0.010;	12" = 5.88 5/8" = 0.016 ther (Specify)
DAGING	COOR MERT C		- Daller,	DF - Diaddel I		LING DA		inp, 11-10	anatanie i un	ip, 0=0	and (opeony)
2	BY (PRINT) / A	FFILIATION:		SAMPLER(S)	SIGNATURI	E(S):		SAMPLING INITIATED AT	r;:	SAMPLIN ENDED A	Т;
PUMP OR T DEPTH IN V	UBING VELL (feet):			TUBING MATERIAL C	ODE:			-FILTERED: Y on Equipment Typ		FILTER S	ZE:μm
FIELD DEC	ONTAMINATIO	DN: PUM	PY	N	TUBING	Y N (n	eplaced)	DUPLICATE:	Y	N	*
	LE CONTAINE		TION			RESERVATIO	(S	INTENDE ANALYSIS AN		SAMPLING	SAMPLE PUMP FLOW RATE
D CODE	# CONTAINERS	CODE	VOLUME	PRESERVAT		TOTAL VOL	mL) pH	METHO		CODE	(mL per minute)
				1							
_				yr							120.15
				1. T			-	1	-		-
REMARKS:							-				
ATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Glass;	PE = Poly	ethylene;	PP = Polypropy	lene; S = Silico	ne; T = T	efion; O = C	Other (Specify)
ALLER MIC	EQUIPMENT			eristaltic Pump; se Flow Perista			Bladder Pump; Method (Tubing	ESP = Electri Gravity Drain);		ble Pump; r (Specify)	
SAMPLING	The shove			the informat		d by Chapt	er 62-160, F.A	LC.			
DTES# 1. 2.	STABILIZATIO			Specific Co						_	Table FS 2200-2

	IS4				SIT LO		sonton, Florida	2 m			1	
WELL NO:				SAMPL	EID: 64	D D-	5		DATE:	12	pla	
					PURG	ING DA			100			
WELL DIAMETER	(inches):	TUBING	i TER (inches)		ELL SCREEN I		STATIC I			PURGE OR BAI	E PUMP T	YPE
(only fill out	UME PURGE: if applicable)		= (12	feet -	7	feet) X	WELL CAPACI	gallon	s/foot	- 0.5	25 gallon
	if applicable)	HGE. TEQU	IFWICHT VO		gallons + (ns/foot X	(eet)		CELL	gallons	= gallon
	MP OR TUBING WELL (feet):			JMP OR TUBIN N WELL (feet):		PURGIN	G	PURGING ENDED AT:	+		OTAL VOL	UME
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L <u>or</u> % saturation	TURB (NT	UDITY Us)	COLO (describ	R ODOR
(1:20	OSL		1		5.82	23.8	522	0.12	MA S.4	3	blac	W -255;
11.25	0.56	12	1	I al la la la la	5.62	24,0	491	0,96	76		bian	~ -1351
	slaw pr	odieny	→ 59	oppd	Minno	{			H			11
		U	-						-		-	
			1 2	-		-	-	2				
											_	
			-	-		_				_		-
												1.0
2	4.000								1			
		Sec. And Anna			a Samila	12.12	The start	1. Second	1			1.1
	ACITY (Gallons SIDE DIA. CAPA				1.25" = 0.06 5" = 0.0014;	; 2" = 0.16 1/4" = 0.0026			5" = 1.02 .006;	; 6" 1/2" = (12" = 5.88 5/8" = 0.016
TUBING IN		ACITY (Gal./F			5" = 0.0014; Pump; ES	1/4" = 0.0026 SP = Electric S	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0		1/2" = (0.010;	
UBING IN PURGING E	SIDE DIA. CAPA	ACITY (Gal./F DDES: B	t.): 1/8" = (0.0006; 3/16 BP = Bladder	S ^a = 0.0014; Pump; ES SAMPI	1/4" = 0.0026 P = Electric S LING DA	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0 mp; PP = Pe	.006;	1/2" = (Pump;	0.010; 0 = 01	5/8" = 0.016 ther (Specify)
UBING IN PURGING E	SIDE DIA. CAPA EQUIPMENT CO BY (PRINT) / AF	ACITY (Gal./F DDES: B	t.): 1/8" = (0.0006; 3/16 BP = Bladder	5" = 0.0014; Pump; ES	$1/4^{\circ} = 0.0026$ SP = Electric S LING DA (S):	6; 5/16" = 0. Submersible Pu	004; 3/8" = 0	.006; eristaltic F	<u>1/2" = (</u> Pump;	0.010;	5/8" = 0.016 ther (Specify) G
SAMPLED PURGING E	SIDE DIA. CAPA EQUIPMENT CO BY (PRINT) / AF S I TAS F TUBING	ACITY (Gal./F DDES: B	t.): 1/8" = (D.0006; 3/16 BP = Bladder SAMPLER(S	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE	1/4" = 0.0026 SP = Electric S LING DA (S):	6; 5/16" = 0. Submersible Put	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	.006; eristaltic F T: N	1/2" = (0.010; 0 = 0 SAMPLIN	5/8" = 0.016 ther (Specify) G T:
AMPLED I SAMPLED I JOECA PUMP OR I DEPTH IN V	SIDE DIA. CAPA EQUIPMENT CO BY (PRINT) / AF	ACITY (Gal./F DDES: B FILIATION:	it.): 1/8" = (= Bailer;	BP = Bladder	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE	1/4" = 0.0026 SP = Electric S LING DA (S):	6; 5/16" = 0. Submersible Put	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT	.006; eristaltic F T: N	<u>1/2" = (</u> ² ump;	0.010; 0 = 0 SAMPLIN ENDED A	5/8" = 0.016 ther (Specify) G T:
TUBING IN PURGING E SAMPLED I USEA PUMP OR T DEPTH IN V FIELD DEC	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (Hy F TUBING WELL (feet):	ACITY (Gal./F DDES: B FILIATION: N: PUMI	rt.): 1/8" = (= Bailer; P Y	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (SAMPI SAMPI SIGNATURE CODE: TUBING	1/4" = 0.0026 SP = Electric S LING DA (S):	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE	.006; eristaltic F r: N pe: Y ED	1/2" = (Pump;	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM
TUBING IN PURGING E SAMPLED I UMP OR 1 DEPTH IN V FIELD DEC SAMP SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (The f TUBING WELL (feet): ONTAMINATION PLE CONTAINER	ACITY (Gal./F DDES: B FILIATION: N: PUMI	rt.): 1/8" = (= Bailer; P Y	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 SP = Electric S LING DA (S): L-S Y N (re	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE:	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N	5/8" = 0.016 ther (Specify) G T: ZE:μm
TUBING IN PURGING E SAMPLED I UMP OR 1 DEPTH IN V FIELD DEC SAMP SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (fmg f TUBING WELL (feet): ONTAMINATION LE CONTAINER #	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
AMPLED I SAMPLED I JOECA PUMP OR 1 DEPTH IN V FIELD DEC SAMP SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (fmg f TUBING WELL (feet): ONTAMINATION LE CONTAINER #	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING E SAMPLED I UMP OR 1 DEPTH IN V FIELD DEC SAMP SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (fmg f TUBING WELL (feet): ONTAMINATION LE CONTAINER #	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING E JORCA PUMP OR 1 DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (fmg f TUBING WELL (feet): ONTAMINATION LE CONTAINER #	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING E JORG PUMP OR 1 DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF S (fmg f TUBING WELL (feet): ONTAMINATION LE CONTAINER #	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE ID CODE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF CONTAMINATION CONTAMINATION CONTAMINERS	ACITY (Gal./F DDES: B FILIATION: N: PUMI & SPECIFICA MATERIAL	rt.): 1/8" = (= Bailer; P Y TION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PRI TIVE T	1/4" = 0.0026 BP = Electric (LING DA (S): Y N (re) ESERVATION OTAL VOL	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	.006; eristaltic F T: N pe: Y ED ND/OR	1/2" = (Pump; SAM EQUI	0.010; 0 = 0 SAMPLIN ENDED A FILTER SI N PLING PMENT	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING E SAMPLED F PUMP OR T DEPTH IN V FIELD DEC SAMP SAMPLE ID CODE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF SUBING WELL (feet): ONTAMINATION LE CONTAINERS	ACITY (Gal./F DDES: B FILIATION: N: PUMI 3 SPECIFICA MATERIAL CODE	rt.): 1/8" = (= Bailer; P Y 1 TION VOLUME	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA USED	SAMPI	1/4" = 0.0026 SP = Electric 5 LING DA (S): Y N (reg ESERVATION OTAL VOL D IN FIELD (m	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL pH	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN METHOD	.006; eristaltic F r: N pe: Y ED ND/OR D	1/2" = (Pump; SAM EQUI	0.010; 0 = OI SAMPLIN ENDED A FILTER SI N PLING PMENT DDE	5/8" = 0.016 ther (Specify) G T: ZE:µm SAMPLE PUM FLOW RATE (mL per minute
TUBING IN PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE ID CODE	SIDE DIA. CAP/ EQUIPMENT CO BY (PRINT) / AF SUBING WELL (feet): ONTAMINATION LE CONTAINERS	ACITY (Gal./F DDES: B FILIATION: N: PUMI 3 SPECIFICA MATERIAL CODE	it.): 1/8" = (= Bailer; P Y P Y TION VOLUME Slass; CG PP = After P	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL (N PRESERVA	5" = 0.0014; Pump; ES SAMPI SIGNATURE SIGNATURE CODE: TUBING SAMPLE PR TIVE ADDEC PE = Polyee S; B = Baile	1/4" = 0.0026 BP = Electric S LING DA (S): Y N (re) ESERVATION OTAL VOL D IN FIELD (n esthylene;	6; 5/16" = 0. Submersible Pur TA FIELD Filtratic placed) N FINAL	ene; S = Silico	.006; eristaltic F r: N pe: Y ED ND/OR D	1/2" = (Pump; SAM EQUI CC	0.010; 0 = 0 0 = 0 SAMPLIN ENDED A FILTER S N PLING PMENT DDE ; 0 = 0 'ump;	5/8" = 0.016 ther (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE

2

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 12, 2009

ME: C-H	IS4			-		TE DCATION: GI	bsonton , Florida			_		
ELL NO:	1			SAMPLE	ID: GK	ND D-	5		DATE:	121	3/12	
					PURC	AING DA	TA					
	(inches): 1. S	DIAME	IG ETER (inches)		TH: 10 fe		feet TO WAT			PURGE	PUMP TY	PE
WELL VOL only fill out	UME PURGE: if applicable)	1 WELL VO	DLUME = (TC = (TAL WELL DEP	TH - STA	TIC DEPTH	TO WATER) X feet) X	WELL CAPAC	gallons	s/foot	. 0,7	35 gallons
	if applicable)	URGE: 1 EQ	UIPMENT VO	L. = PUMP VOL	allons + (ITY X T ons/foot X	UBING LENGTH		CELL	gallons =	gallons
NITIAL PU	MP OR TUBIN	G	FINAL PL	IMP OR TUBING		PURGIN	NG	PURGING		Т	OTAL VOL	
EPTH IN	WELL (feet):	1 3 20 20	DEPTH	WELL (feet):		INITIAT	1	ENDED AT: DISSOLVED	T	P	URGED (ga	and the second se
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	RATE	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	OXYGEN (circle units) mg/L or % saturation	TURB (NT	10000	COLOF (describe	
11:38	24	22			6.07	24.9	467	0.02	MA	¥	blan	1 = 237.5
1:47	VILL	UL		1.1.20	5.68	24.6	446	1.18	827		bran	~-125 .1
16:55	21	62		5.75	5,68	24.5	452	214	82	4023	tan	-106.4
						1.2						-
	1								-			
			-	-					-	_	-	-
				-								
					and the second se							
1.000	1.2.2.				-							1
VELL CAP	ACITY (Gallon	s Per Foot):	0.75 " = 0.02;	1" = 0.04;	1.25" = 0.0	6; 2 " = 0.1	16; 3 " = 0.37;		5" = 1.02	; 6"	= 1.47;	12" = 5.88
UBING IN	ACITY (Gallon SIDE DIA. CAP	PACITY (Gal.	0.75" = 0.02; /Ft.): 1/8" = (B = Bailer;	1" = 0.04; 0.0006; 3/16" BP = Bladder F	= 0.0014;	1/4" = 0.002	16; 3" = 0.37; 26; 5/16" = 0 Submersible Pu	.004; 3/8" = 0		1/2" = (0.010; 5	12" = 5.88 5/8" = 0.016 her (Specify)
UBING IN	SIDE DIA. CAR	PACITY (Gal.	/Ft.): 1/8" = (0.0006; 3/16* BP = Bladder F	= 0.0014; Pump; E SAMP	1/4" = 0.002 SP = Electric LING D	26; 5/16" = 0 Submersible Pu	.004; 3/8" = 0	.006;	1/2" = (0.010; 5	5/8" = 0.016
UBING IN URGING I	SIDE DIA. CAR	PACITY (Gal. CODES: I	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/16*	= 0.0014; Pump; E SAMP	1/4" = 0.002 SP = Electric LING D	26; 5/16" = 0 Submersible Pu	.004; 3/8" = 0).006; eristaltic F	1/2" = (Pump;	0.010; 5	5/8" = 0.016 her (Specify) 3
UBING IN URGING I AMPLED	SIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING	PACITY (Gal. CODES: I	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING	= 0.0014; Pump; E SAMP SIGNATURI	1/4" = 0.002 SP = Electric LING D	26; 5/16" = 0 : Submersible Pu ATA FIELD	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A D-FILTERED: Y).006; eristaltic F T: N	1/2" = (² ump;	0 = Oth SAMPLING ENDED A	5/8" = 0.016 her (Specify) 3
UBING IN URGING I AMPLED UMP OR DEPTH IN	SIDE DIA. CAF EQUIPMENT C BY (PRINT) / A	PACITY (Gal. CODES: I	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/16" BP = Bladder F SAMPLER(S)	= 0.0014; Pump; E SAMP SIGNATURI	1/4" = 0.000 SP = Electric LING D	26; 5/16" = 0 : Submersible Pu ATA FIELD	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A).006; eristaltic F T: N pe:	<u>1/2" = (</u> ² ump;	0 = Oth SAMPLING ENDED A	5/8" = 0.016 her (Specify) G T:
UBING IN URGING I AMPLED UMP OR EPTH IN IELD DEC	SIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet):	PACITY (Gal. CODES: I NFFILIATION: DN: PUI	/Ft.): 1/8" = (B = Bailer; MP Y	0.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING	1/4" = 0.000 SP = Electric LING D	26; 5/16" = 0 : Submersible Pu ATA FIELC Fitrati eplaced)	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED AT >-FILTERED: Y DUPLICATE: INTENDE	0.006; eristaltic F T: N pe: , Y ED	1/2" = (Pump;	0 = Oth SAMPLING	5/8" = 0.016 her (Specify) G T: ZE:μm SAMPLE PUMP
URGING IN URGING I AMPLED UMP OR EPTH IN IELD DEC SAMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO	PACITY (Gal. CODES: I NFFILIATION: DN: PUI	/Ft.): 1/8" = (B = Bailer; MP Y	0.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (r	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 ump; PP = Pe SAMPLING INITIATED AT D-FILTERED: Y ION Equipment Ty DUPLICATE:	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm
UBING IN PURGING I SAMPLED PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
UBING IN PURGING I SAMPLED PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
UBING IN PURGING I SAMPLED PUMP OR T DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
FUBING IN PURGING I SAMPLED PUMP OR T DEPTH IN N FIELD DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
CUBING IN PURGING I SAMPLED DEPTH IN N FIELD DEC SAMPLE D CODE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
UBING IN URGING I AMPLED DEPTH IN N IELD DEC SAMPLE D CODE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	PACITY (Gal. CODES: I SFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE	1/4" = 0.00; SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A INITIATED A O-FILTERED: Y ion Equipment Ty DUPLICATE: INTENDI ANALYSIS A	0.006; eristaltic F T: N pe: , Y ED ND/OR	1/2" = (Pump; SAM EQUI	0 = Oth SAMPLING ENDED A FILTER SI: N PLING PMENT	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE
AMPLED CODE CODE CODE CODE CODE CODE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	AG = Amber	/Ft.): 1/8" = (B = Bailer; MP Y ATION VOLUME	D.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL C N PRESERVAT USED	= 0.0014; Pump; E SAMP SIGNATURI DDE: TUBING SAMPLE PF IVE ADDE	1/4" = 0.00% SP = Electric LING D/ E(S): Y N (r RESERVATION TOTAL VOL D IN FIELD (V rethylene;	26; 5/16" = 0 : Submersible Pu ATA FIELD FITAL eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A* INITIATED A* Perestant O-FILTERED: Y DUPLICATE: INTENDI ANALYSIS AI METHO METHO Perestant Sense: S = Silico	0.006; eristaltic F T: N pe: Y ED ND/OR D	1/2" = (Pump; SAM EQUII CC	0 = Oth SAMPLING ENDED A FILTER SIZ N PLING PMENT DDE	5/6" = 0.016 her (Specify) 3 7: ΖΕ:μm SAMPLE PUMP FLOW RATE

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

WELL NO:	IS4				SI	CATION: GI	bsonton , Florida		_			-
				SAMPL	EID: GR	ID D	-5		DATE:	12/3/1	2	
					PURC	GING DA	TA					
VELL			ETER (inches)): DE	PTH: 12 fe	et to 16		ER (feet):	0	URGE PUMF R BAILER:	TYPE	
only fill out	if applicable)		= (16	feet -	6	feet) X		gallons/i		05	gallons
	if applicable)	UNGE: 1 EG	IUPMENT VU)L, = PUMP VO =	gallons + (ITY X T	UBING LENGTH) feet)		gallor		gallons
	MP OR TUBIN WELL (feet):	G		JMP OR TUBIN N WELL (feet):	IG	PURGIN		PURGING ENDED AT:		TOTAL V PURGED		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE	WATER	pH (standard units)	темр. ([°] С)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBID (NTU:	10 C C C C C C C C C C C C C C C C C C C	LOR cribe)	-ODOR (describe)
12:45	1 gal				6,21	25,0	357	0.11	73.7	e bra	m	-2615
12:59	281		11.	1.	5.79	24.4	310	0.94	75,4			-1927
13:10	3 pl				5.74	27.6	365	0.86	50.1		ar	-175.4
								5				
					-	1						
-			1					-				
UBING IN PURGING E	ACITY (Gallon SIDE DIA. CAI EQUIPMENT C	PACITY (Gal	./Ft.): 1/8 ⁿ = 0 B = Bailer;	0.0006; 3/16 BP = Bladder	SAMP	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu	004; 3/8° = 0. mp; PP = Pe	5" = 1.02; .006; 1/ eristaltic Pu	-	5/8* = Other (= 5.88 = 0.016 (Specify)
UBING IN URGING E	SIDE DIA. CAI	PACITY (Gal	./Ft.): 1/8 ⁿ = 0 B = Bailer;	0.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu	004; 3/8" = 0.	.006; 1/ eristaltic Pu	/2" = 0.010;	5/8" = Other (= 0.016
UBING IN URGING E AMPLED I	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	PACITY (Gal	./Ft.): 1/8 ⁿ = 0 B = Bailer;	0.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E SAMP) SIGNATURI	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu ATA FIELD	004; 3/8° = 0. mp; PP = Pe SAMPLING	.006; 1/ eristaltic Pu	/2" = 0.010; mp; 0 = SAMP ENDE	5/8" = Other (= 0.016 (Specify)
UBING IN URGING E AMPLED I UMP OR 1 EPTH IN V	SIDE DÍA. CAI EQUIPMENT C BY (PRINT) / A TUBING	PACITY (Gal	./Ft.): 1/8" = (B = Bailer;	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING	" = 0.0014; Pump; E SAMP) SIGNATURI	1/4" = 0.002 SP = Electric LING DA E(S):	26; 5/16" = 0. Submersible Pu ATA FIELD	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	.006; 1/ eristaltic Pu	/2" = 0.010; mp; 0 = SAMP ENDE	5/8" = Other (LING D AT:	= 0.016 (Specify)
PURGING IN PURGING E SAMPLED I PUMP OR T DEPTH IN V FIELD DEC SAMP	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING WELL (feet);	PACITY (Gal CODES: A FFILIATION: DN: PU	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C	* = 0.0014; Pump; E SAMP) SIGNATURI CODE: TUBING SAMPLE PF	1/4" = 0.002 SP = Electric LING DA E(S):	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced)	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Pe: Y ED ND/OR	(2" = 0.010; mp; 0 = SAMPI ENDER FILTER N SAMPLING EQUIPMENT	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm MPLE PUMP LOW RATE
TUBING IN PURGING E SAMPLED I PUMP OR 1 DEPTH IN V FIELD DEC SAMP SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A FUBING WELL (feet): ONTAMINATIONE	PACITY (Gal CODES: NFFILIATION: DN: PU ER SPECIFIC	//Ft.): 1/8" = (B = Bailer; MP Y	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C	** = 0.0014; Pump; E SAMP SIGNATURI SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (re RESERVATIO	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) IN FINAL	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Tyj DUPLICATE: INTENDE	N Pe: Y ED ND/OR	/2" = 0.010; mp; 0 = SAMPI ENDER FILTEF N SAMPLING	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm μm
CUBING IN PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIO LE CONTAINE	PACITY (Gal CODES: 1 AFFILIATION: DN: PU ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVA	** = 0.0014; Pump; E SAMP SIGNATURI SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (rr RESERVATION TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) IN FINAL	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Pe: Y ED ND/OR	(2" = 0.010; mp; 0 = SAMPI ENDER FILTER N SAMPLING EQUIPMENT	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm MPLE PUMP LOW RATE
FUBING IN PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIO LE CONTAINE	PACITY (Gal CODES: 1 AFFILIATION: DN: PU ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVA	** = 0.0014; Pump; E SAMP SIGNATURI SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (rr RESERVATION TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) IN FINAL	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Pe: Y ED ND/OR	(2" = 0.010; mp; 0 = SAMPI ENDER FILTER N SAMPLING EQUIPMENT	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm MPLE PUMP LOW RATE
CUBING IN PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIO LE CONTAINE	PACITY (Gal CODES: 1 AFFILIATION: DN: PU ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVA	** = 0.0014; Pump; E SAMP SIGNATURI SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (rr RESERVATION TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) IN FINAL	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Pe: Y ED ND/OR	(2" = 0.010; mp; 0 = SAMPI ENDER FILTER N SAMPLING EQUIPMENT	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm MPLE PUMP LOW RATE
FUBING IN PURGING E SAMPLED I PUMP OR T DEPTH IN V FIELD DEC	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATION LE CONTAINERS	PACITY (Gal CODES: 1 AFFILIATION: DN: PU ER SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVA	** = 0.0014; Pump; E SAMP SIGNATURI SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING DA E(S): Y N (rr RESERVATION TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) IN FINAL	004; 3/8* = 0. mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN	N Pe: Y ED ND/OR	(2" = 0.010; mp; 0 = SAMPI ENDER FILTER N SAMPLING EQUIPMENT	5/8" Other (LING D AT: R SIZE: SAI T F	= 0.016 (Specify) μm MPLE PUMP LOW RATE

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

ME: C-	HS4					LC	CATION: Gibso	onton, Florida	í				
WELL NO:				SAMP	LE ID:	GR	D D-S			DATE:	12/3	12	
					F		ING DAT	A					
WELL DIAMETER			ETER (inches)	: D	EPTH:	IN te	NTERVAL et to 18 fee		ER (feet):		PURGE OR BA	E PUMP TY	'PE
	LUME PURGE: t if applicable)	1 WELL V	OLUME = (TC = (TAL WELL DI	EPTH feet		TIC DEPTH TO	WATER) X feet) X	WELL CAPACI		ns/foot	- 1.2	gallon
	NT VOLUME PI t if applicable)	URGE: 1 EC	UIPMENT VO		gallons			X T	UBING LENGTH)		V CELL	gallons :	= gallon
	JMP OR TUBIN WELL (feet):	G		JMP OR TUBI N WELL (feet):	NG		PURGING		PURGING ENDED AT:			OTAL VOL	UME
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE	E DEPTH TO WATER (feet)	(sta	pH Indard nits)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY TUs)	COLOI (describ	
13:39	Igal	Isal	1	1	5	80	24,7	426	0,67	24	3	boun	2-179.4
13:50	Igal	Zgal				88	2417	414	1.37	81.	-	tan	-167.9
14:05	Igal	3gal	2		_	94	24,6	404	7.16	30		clear	
-		2.0											
TUBING IN	PACITY (Gallon: ISIDE DIA. CAP	PACITY (Gal	/Ft.): 1/8" = (0.0006; 3/1	6" = 0.0	014;	1/4" = 0.0026;	5/16" = 0.	.004; 3/8" = 0		1/2" =	0.010;	12" = 5.88 5/8" = 0.016 her (Specify)
UBING IN		PACITY (Gal			6" = 0.0 r Pump;	014; E		5/16" = 0. ubmersible Pu	.004; 3/8" = 0	.006;	1/2" =	0.010;	
UBING IN URGING	ISIDE DIA. CAP	ODES:	JFt.): 1/8" = (B = Bailer;	0.0006; 3/1	6" = 0.0 r Pump; S	AMP	1/4" = 0.0026; SP = Electric Sc LING DAT	5/16" = 0. ubmersible Pu	.004; 3/8" = 0	.006; aristaltic	1/2" =	0.010;	5/8" = 0.016 her (Specify) 3
UBING IN URGING SAMPLED	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A	ODES:	JFt.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde	6" = 0.0 r Pump; S) S) SIGN	AMP	1/4" = 0.0026; SP = Electric Sc LING DAT	5/16" = 0. ubmersible Pu TA FIELD	.004; 3/8" = 0 imp; PP = Pe SAMPLING	.006; aristaltic f: N	1/2" =	0.010; 0 = 0t SAMPLIN	5/8" = 0.016 her (Specify) 3 T:
UBING IN PURGING SAMPLED PUMP OR DEPTH IN	ISIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING	PACITY (Gal	./Ft.): 1/8" = (B = Bailer; ;	D.0006; 3/1 BP = Bladde SAMPLER(TUBING	6" = 0.0 r Pump; S) S) SIGN CODE:	AMP	1/4" = 0.0026; SP = Electric Sc LING DAT	5/16" = 0. ubmersible Pu TA FIELD Filtrati	.004; 3/8* = 0 imp; PP = Pe SAMPLING INITIATED AT 0-FILTERED; Y	.006; aristaltic f: N	1/2" = Pump;	0.010; 0 = Ot SAMPLIN ENDED A	5/8" = 0.016 her (Specify) 3 T:
PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gai PODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; : MP Y CATION	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM	ID14; ES AMP JATURE BING PLE PR T	1/4* = 0.0026; SP = Electric St LING DAT ((S): Y N (repl ESERVATION OTAL VOL	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8* = 0 imp; PP = Pe SAMPLING INITIATED AT INITIATED AT Person PFILTERED: Y on Equipment Type DUPLICATE: INTENDE ANALYSIS AT	.006; aristaltic r: N pe: N D ND/OR	1/2" = Pump; SAM	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT	5/8" = 0.016 her (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
PURGING BAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC	/Ft.): 1/8" = (B = Bailer; : MP Y	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM	ID14; ES AMP JATURE BING PLE PR T	1/4* = 0.0026; SP = Electric St LING DAT ((S): Y N (repl ESERVATION	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED AT P-FILTERED; Y on Equipment Ty DUPLICATE; INTENDE	.006; aristaltic r: N pe: N D ND/OR	1/2" = Pump; SAM	0.010; 0 = Ot SAMPLING ENDED A FILTER SI N MPLING	5/8" = 0.016 her (Specify) 3 T: ZE:μm SAMPLE PUM
PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gai PODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; : MP Y CATION	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM	ID14; ES AMP JATURE BING PLE PR T	1/4* = 0.0026; SP = Electric St LING DAT ((S): Y N (repl ESERVATION OTAL VOL	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8* = 0 imp; PP = Pe SAMPLING INITIATED AT INITIATED AT Person PFILTERED: Y on Equipment Type DUPLICATE: INTENDE ANALYSIS AT	.006; aristaltic r: N pe: N D ND/OR	1/2" = Pump; SAM	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT	5/8" = 0.016 her (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	PACITY (Gai PODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; : MP Y CATION	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM	ID14; ES AMP JATURE BING PLE PR T	1/4* = 0.0026; SP = Electric St LING DAT ((S): Y N (repl ESERVATION OTAL VOL	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8* = 0 imp; PP = Pe SAMPLING INITIATED AT INITIATED AT Person PFILTERED: Y on Equipment Type DUPLICATE: INTENDE ANALYSIS AT	.006; aristaltic r: N pe: N D ND/OR	1/2" = Pump; SAM	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT	5/8" = 0.016 her (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	PACITY (Gai PODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; : MP Y CATION	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM	ID14; ES AMP JATURE BING PLE PR T	1/4* = 0.0026; SP = Electric St LING DAT ((S): Y N (repl ESERVATION OTAL VOL	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8* = 0 imp; PP = Pe SAMPLING INITIATED AT INITIATED AT Person PFILTERED: Y on Equipment Type DUPLICATE: INTENDE ANALYSIS AT	.006; aristaltic r: N pe: N D ND/OR	1/2" = Pump; SAM	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT	5/8" = 0.016 her (Specify) G T: ZE:μm SAMPLE PUM FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMP SAMPLE ID CODE	ISIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	PACITY (Gai PODES: FFILIATION DN: PU R SPECIFIC MATERIAL CODE	JFt.): 1/8" = (B = Bailer; MP Y CATION VOLUME	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA USED	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM ATIVE	BING PLE PR ADDE	1/4* = 0.0026; SP = Electric St LING DAT (S): Y N (repl ESERVATION OTAL VOL D IN FIELD (mL	5/16" = 0. Johnersible Pu TA FIELD Filtrati aced) FINAL pH	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A1 INITIATED A1 D PFILTERED: Y on Equipment Tyj DUPLICATE: INTENDE ANALYSIS A1 METHO METHO	.006; eristaltic r: N pe: ND/OR D	1/2" = Pump; SAM EQUI	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT ODE	5/8" = 0.016 her (Specify) G T: ZE: µm SAMPLE PUM FLOW RATE (mL per minute
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	ISIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	ACITY (Gai CODES: FFILIATION DN: PU R SPECIFIC MATERIAL CODE	JFt.): 1/8" = (B = Bailer; MP Y CATION VOLUME	D.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA USED	6" = 0.0 r Pump; S) SIGN S) SIGN CODE: TU SAM ATIVE	BING PLE PR ADDE	1/4* = 0.0026; SP = Electric St LING DAT (S): Y N (repl ESERVATION OTAL VOL D IN FIELD (mL D IN FIELD (mL	5/16" = 0. ubmersible Pu TA FIELD Filtrati aced)	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A1 INITIATED A1 D PFILTERED: Y on Equipment Tyj DUPLICATE: INTENDE ANALYSIS A1 METHO METHO	.006; eristaltic r: Npe: ND/OR D	1/2" = Pump; SAM EQUI C	0.010; 0 = Ot SAMPLINI ENDED A FILTER SI N MPLING IPMENT ODE	5/8" = 0.016 her (Specify) G T: ZE: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)

Revision Date: February 12, 2009

WILL, U-	HS4			-		SITE LOCATION: G	aibsonto	on , Florida				-	
WELL NO:			-	SAMP	LE ID: G	PID D	-5			DATE:	12/	3/12	-
				155	PU	RGING D	ATA					-14	
WELL DIAMETER			TER (inches):	() ()	EPTH: (EN INTERVAL				TV	PURGI OR BA	e pump t' Iler:	YPE
(only fill our	t if applicable) NT VOLUME PL t if applicable)		= (feet - OLUME + (1	TUBING CAPA	СПТҮ	feet) X X Tu	JBING LENGTH)	gallo + FLO	ns/foot N CELL	VOLUME	gallons
INITIAL PU	MP OR TUBIN	G	FINAL PU	= MP OR TUB	gallons + (ING	e ga PURG	llons/fo	ot X	feet) PURGING	+		gallons OTAL VOL	UME
DEPTH IN	WELL (feet):		DEPTH IN	WELL (feet	:	INITIA	TED AT	*	ENDED AT:	-	F	URGED (g	gallons):
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	Pri (standa		(cire μm	COND. cle units) hhos/cm μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY TUs)	COLO (describ	ACC 100 CONTRACTOR
	NO v	VATER	/	· · · · · ·	1.		010		in outeration			1	
	· = =			1	-		-					-	
	1		+	-	-		1	-		-		-	
				1		1				-		-	
											-	-	
				1		3	1-					1	
					1	_		-		-		1.2.2	
-			-	-			-	-		-		-	
							1.1.1.1						
-					1	-							
	PACITY (Gallons					0.06; 2" = 0 1/4" = 0.00		3" = 0.37; 5/16" = 0					12" = 5.88 5/8" = 0.016
TUBING IN	PACITY (Gallons ISIDE DIA. CAP EQUIPMENT C	ACITY (Gal./	Ft.): 1/8" = 0.		16" = 0.0014		026;	5/16" = 0.	004; 3/8" = 0	.006;	1/2" =	0.010;	12" = 5.88 5/8" = 0.016 ther (Specify)
TUBING IN PURGING	ISIDE DIA. CAP	ODES: B	Ft.): 1/8" = 0.	.0006; 3/ BP = Bladde	er Pump; SAN	ESP = Electri ESP = Electri	026; c Subrr	5/16" = 0. nersible Put	004; 3/8" = 0	.006;	1/2" =	0.010;	5/8" = 0.016
TUBING IN PURGING	SIDE DIA. CAP	ODES: B	Ft.): 1/8" = 0.	.0006; 3/ BP = Bladde	16" = 0.0014 er Pump;	ESP = Electri ESP = Electri	026; c Subrr	5/16" = 0. nersible Put	004; 3/8" = 0	.006; eristaltic	1/2" =	0.010;	5/8" = 0.016 ther (Specify) G
TUBING IN PURGING SAMPLED PUMP OR	ISIDE DIA. CAP EQUIPMENT C BY (PRINT) / A TUBING	ODES: B	Ft.): 1/8" = 0.	0006; 3/ BP = Bladde SAMPLER TUBING	16" = 0.0014 ar Pump; SAN (S) SIGNATI	ESP = Electri ESP = Electri	026; c Subrr	5/16" = 0. hersible Pur	004: 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y	.006; aristaltic T: N	1/2" = Pump;	0.010; O = O SAMPLIN ENDED A	5/8" = 0.016 ther (Specify) G
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN	ISIDE DIA. CAP EQUIPMENT C BY (PRINT) / A	PACITY (Gal./I ODES: B FFILIATION:	Ft.): 1/8" = 0. = Bailer;	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI	i; 1/4" = 0.00 ESP = Electri IPLING D URE(S):	026; c Subrr	5/16" = 0. hersible Pur FIELD Filtratic	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT	.006; eristaltic T: N pe:	1/2" = Pump;	0.010; O = O SAMPLIN ENDED A	5/8" = 0.016 ther (Specify) G T:
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet):	ODES: B FFILIATION: DN: PUM	Ft.): 1/8* = 0. = Bailer; IP Y N	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN	i; 1/4" = 0.00 ESP = Electri IPLING D URE(S):	226; c Subrr ATA	5/16" = 0. hersible Pur FIELD Filtratic	004; 3/8" = 0 mp: PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE	.006; eristaltic T: N pe:	1/2" = Pump;	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMP
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO	ODES: B FFILIATION: DN: PUM	Ft.): 1/8* = 0. = Bailer; IP Y N	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri MPLING D URE(S); G Y G Y	c Subm ATA (replace ON	5/16" = 0. hersible Pur FIELD Filtratic	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE:	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N	5/8" = 0.016 ther (Specify) G T: IZE:μm
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	It is a construct of the second secon	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri IPLING D URE(S): G Y N (PRESERVATI TOTAL VOL	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMF FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri IPLING D URE(S): G Y N (PRESERVATI TOTAL VOL	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMF FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINE #	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri IPLING D URE(S): G Y N (PRESERVATI TOTAL VOL	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMF FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri IPLING D URE(S): G Y N (PRESERVATI TOTAL VOL	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMF FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ACITY (Gal./ ODES: B FFILIATION: DN: PUM R SPECIFICA MATERIAL	Ft.): 1/8" = 0. = Bailer; IP Y N NTION	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL	16" = 0.0014 ar Pump; SAN (S) SIGNATI CODE: TUBIN SAMPLE ATIVE	i; 1/4* = 0.00 ESP = Electri IPLING D URE(S): G Y N (PRESERVATI TOTAL VOL	c Subm ATA (replace ON	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; aristaltic T: N pe: ND/OR	1/2" = Pump; / SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMP FLOW RATE
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE REMARKS	ISIDE DÍA. CAP EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	AG = Amber	Ft.): 1/8" = 0. = Bailer; IP Y N NTION VOLUME	0006; 3/ BP = Bladde SAMPLER TUBING MATERIAL PRESERV USEI	16" = 0.0014 ar Pump; SAM (S) SIGNATI CODE: TUBIN SAMPLE ATIVE ATIVE ATIVE SAMPLE SAMPLE	i; 1/4* = 0.00 ESP = Electri MPLING D URE(S): G Y N (I PRESERVATI TOTAL VOL DDED IN FIELD	PP =	5/16" = Ó. hersible Pur FIELD Filtratio	004; 3/8" = 0 mp; PP = Pe INITIATED AT FILTERED: Y on Equipment Ty DUPLICATE: INTENDE ANALYSIS AI METHO	.006; eristaltic T: N pe: , ED ND/OR D	1/2" = Pump; SAM EQU C	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT ODE 0 0 0 0 0 0 0 0 0 0 0 0 0	5/8" = 0.016 ther (Specify) G T: IZE:μm SAMPLE PUMF 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)

Revision Date: February 12, 2009

ME: C-H	IS4			-	SI	CATION: GI	bsonton, Florida	· · · · · · · · · · · · · · · · · · ·	-				
WELL NO:	BKG	2		SAMP	LE ID: BK	G P20	03		DATE:	14	311	2	
					PURC	GING DA	ATA						
WELL			ETER (inches): D	ELL SCREEN	et to 12		ER (feet):		PURGE OR BA	E PUMP T ILER:	YPE	_
	UME PURGE: if applicable)	1 WELL V	OLUME = (TO	12	EPTH - STA feet -	TIC DEPTH	TO WATER) X feet) X	WELL CAPAC		ns/foot		792	gallons
	IT VOLUME Pl if applicable)	URGE: 1 EC	UIPMENT VO	DL. = PUMP V	DLUME + (TUE	BING CAPAC	ITY X T	UBING LENGTH) + FLOV		VOLUME		
		-		=	gallons + (ons/foot X	feet)+	1.	gallons		gallons
	MP OR TUBIN WELL (feet):	G		MP OR TUBI		PURGIN		PURGING ENDED AT:			OTAL VO		
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE	E DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY TUs)	COLO (descril	R 1	describe)
14:39	26	22		In the second	4.75	24,9	143.5	0.46	21	4	blan		132.5
14:46	21	46	In L	1	5.41	240	143.8	2.41	78	5	ten	-	119,3
14:52	22	62			4.52	24.2	143.7	1.79	19.		Clea		118.7
											œ.		
-			_		· · · · · · · ·								
											1		
F											2		
TUBING IN PURGING E	ACITY (Gallon SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A	PACITY (Gal CODES:	./Ft.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde	6" = 0.0014; r Pump; E	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu	.004; 3/8" = 0	5" = 1.0. .006; eristaltic	1/2" =	= 1.47; 0.010;	12" = 5 5/8" = 0 ther (Spe	.016
TUBING IN PURGING E SAMPLED E	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	PACITY (Gal CODES:	./Ft.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde SAMPLER(6" = 0.0014; r Pump; E SAMP	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu ATA	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A	.006; eristaltic T:	1/2" =	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A	5/8" = 0 ther (Spe IG VT:	.016 ecify)
TUBING IN PURGING E SAMPLED E	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A TUBING	PACITY (Gal CODES:	./Ft.): 1/8" = (B = Bailer;	0.0006; 3/1 BP = Bladde SAMPLER(TUBING	6" = 0.0014; r Pump; E SAMP S) SIGNATURI	1/4" = 0.002 SP = Electric	26; 5/16" = 0. Submersible Pu ATA FIELD	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A P-FILTERED: Y	0.006; eristaltic T: N	1/2" =	= 1.47; 0.010; 0 = 0 SAMPLIN	5/8" = 0 ther (Spe IG VT:	.016 ecify)
TUBING INS PURGING E SAMPLED E PUMP OR T DEPTH IN V	SIDE DIA. CAI EQUIPMENT C BY (PRINT) / A	PACITY (Gal ODES:	./Ft.): 1/8" = B = Bailer;	0.0006; 3/1 BP = Bladde SAMPLER(6" = 0.0014; r Pump; E SAMP S) SIGNATURI	1/4" = 0.000 SP = Electric LING D/ E(S):	26; 5/16" = 0. Submersible Pu ATA FIELD	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A	.006; eristaltic T: N pe:	1/2" = Pump;	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A	5/8" = 0 ther (Spe IG VT:	.016 ecify)
TUBING INS PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet):	PACITY (Gal CODES: FFILIATION	/Ft.): 1/8" = (B = Bailer; MP Y	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING	1/4" = 0.000 SP = Electric LING D/ E(S):	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced)	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A -FILTERED: Y on Equipment Ty	.006; eristaltic T: N pe: Y	1/2" = Pump;	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = 0 ther (Spi IG VT: IZE:	.016 ecify)
TUBING IN PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIO	PACITY (Gal CODES: FFILIATION	/Ft.): 1/8" = (B = Bailer; MP Y	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Pe SAMPLING INITIATED A" P-FILTERED: Y on Equipment Ty DUPLICATE:	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	.016 ecify) μm
TUBING IN PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAN EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIC PLE CONTAINE	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y CATION	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A INITIATED A A -FILTERED: Y on Equipment Ty DUPLICATE: INTENDO ANALYSIS AI	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE
TUBING IN PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAN EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIC PLE CONTAINE	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y CATION	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A INITIATED A A -FILTERED: Y on Equipment Ty DUPLICATE: INTENDO ANALYSIS AI	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE
TUBING IN PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAN EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIC PLE CONTAINE	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y CATION	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A INITIATED A A -FILTERED: Y on Equipment Ty DUPLICATE: INTENDO ANALYSIS AI	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE
TUBING INS PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE ID CODE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATION PLE CONTAINERS	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y CATION	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A INITIATED A -FILTERED: Y on Equipment Ty DUPLICATE: INTENDO ANALYSIS AI	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE
TUBING IN PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATION PLE CONTAINERS	PACITY (Gal CODES: FFILIATION DN: PU R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y CATION	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED A INITIATED A -FILTERED: Y on Equipment Ty DUPLICATE: INTENDO ANALYSIS AI	.006; eristaltic T: N pe: Y ED ND/OR	1/2" = Pump; SAM	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N MPLING IPMENT	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE
TUBING INS PURGING E SAMPLED E PUMP OR T DEPTH IN V FIELD DEC SAMPLE ID CODE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): ONTAMINATIC PLE CONTAINERS	AG = Ambe	/ft.): 1/8" = (B = Bailer; MP Y :ATION VOLUME	0.0006; 3/1 BP = Bladde SAMPLER(TUBING MATERIAL N PRESERVA USED	6" = 0.0014; r Pump; E SAMP S) SIGNATURI CODE: TUBING SAMPLE PF TIVE ADDE 	1/4" = 0.002 SP = Electric LING D/ E(S): Y N (r RESERVATIO TOTAL VOL D IN FIELD (Vethylene;	5/16" = 0. Submersible Pu ATA FIELD Filtrati eplaced) DN FINAL	.004; 3/8" = 0 imp; PP = Po SAMPLING INITIATED AT INITIATED AT Yon Equipment Ty DUPLICATE: INTENDS ANALYSIS AI METHO	0.006; eristaltic T: N Pe: Y ED ND/OR D	1/2" = Pump; SAM EQUI C	= 1.47; 0.010; 0 = 0 SAMPLIN ENDED A FILTER S N (PLING IPMENT ODE	5/8" = 0 ther (Spi IG IT: IZE: SAMPI FLOV	LE PUMP W RATE er minute)

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

WELL NO:	IS4					SITE OCATION: GI	ibsonton	, Florida						
	BKG	2		SAMPL	EID: BK	14- PZ	.03			DATE:	12	13/1	r	
					PUR	GING DA	ATA							
VELL.			TER (inches)	DE	EPTH: 10	INTERVAL	feet		ER (feet):		PURGE OR BA	E PUMP T' ILER:	YPE	-
only fill out	if applicable)		= (14	feet -	10		FER) X feet) X	WELL CAPACI		s/foot	= 0.	42	gallons
OUIPMEN	IT VOLUME PL	JRGE: 1 EQ	UIPMENT VO		DLUME + (TU gallons + (ITY		UBING LENGTH) feet)		V CELL	VOLUME gallons	-	gallons
	MP OR TUBING	G		MP OR TUBIN WELL (feet):		PURGI			PURGING ENDED AT:			OTAL VOL	UME	10.00
TIME	VOLUME PURGED (gailons)	CUMUL. VOLUME PURGED (gallons)	PURGE	DEPTH	pH (standard units)	TEMP. (°C)	(circle µmh	DND. e units) ios/cm uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		BIDITY "Us)	COLO (describ	R	ORF ODOR (describe)
5:06	24	22			6.18	25.1	22		1:54	114		blace	1.	-1439
5-18	1221L	36		6	1842	246	21	9	2.85	520	1	Closer	n	-117.2
5.25	ĨL	yL			5.67		17	3,7	4.02	29	5	clea		-122.7
VELL CAP	ACITY (Gallons	s Per Foot): PACITY (Gal.	0.75" = 0.02; /Ft.): 1/8" = (1" = 0.04; 0.0006; 3/10		06; 2" = 0,1 1/4" = 0.002		" = 0.37; 5/16" = 0.	4" = 0.65; .004; 3/8" = 0	5" = 1.02 .006;	2; 6" 1/2" =		12" = 5/8" =	
UBING IN	ACITY (Gallons SIDE DIA. CAP EQUIPMENT C	ACITY (Gal.	0.75" = 0.02; /Ft.): 1/8" = 0 B = Bailer;	1" = 0.04; 0.0006; 3/10 BP = Bladder	5" = 0.0014;		26; 5	5/16" = 0.	.004; 3/8" = 0		1/2" =	0.010;		0.016
UBING IN URGING I	SIDE DIA. CAP	ODES: E	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/10 BP = Bladder	⁵ " = 0.0014; Pump; SAM	1/4" = 0.002 ESP = Electric PLING D	26; 5 Subme	5/16" = 0.	.004; 3/8" = 0	.006;	1/2" =	0.010;	5/8" =	0.016
UBING IN URGING E	SIDE DIA. CAP	ODES: E	/Ft.): 1/8" = (B = Bailer;	0.0006; 3/10 BP = Bladder	5" = 0.0014; Pump;	1/4" = 0.002 ESP = Electric PLING D	26; 5 Subme	5/16" = 0.	.004; 3/8" = 0	.006; eristaltic	1/2" =	0.010;	5/8" = ther (S	0.016
UBING IN URGING E AMPLED I	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING	ODES: E	/Ft.): 1/8" = (B = Bailer;	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING	5" = 0.0014; Pump; SAMI 5) SIGNATU	1/4" = 0.002 ESP = Electric PLING D	26; 5 Subme	5/16" = 0. Insible Pu	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y	.006; eristaltic f: N	1/2" =	0.010; 0 = 0 SAMPLIN	5/8" = ther (S) G (T:	0.016 pecify)
UBING IN URGING E AMPLED I UMP OR 1 EPTH IN V	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet):	PACITY (Gal. ODES: E	/Ft.): 1/8" = (3 = Bailer;	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL	5" = 0.0014; Pump; SAMI S) SIGNATUI	1/4" = 0.003 ESP = Electric PLING D/ RE(S):	26; 5 Subme ATA	FIELD Filtrati	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED T Y on Equipment Ty	.006; eristaltic f: N pe;	1/2" =	0.010; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = ther (S) G (T:	0.016 pecify)
UBING IN URGING E AMPLED I UMP OR T DEPTH IN V	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIC	PACITY (Gal. ODES: E FFILIATION: DN: PU	/Ft.): 1/8" = (B = Bailer; MP Y	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING	5" = 0.0014; Pump; SAMI 3) SIGNATUI CODE: TUBING	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r	26; 5 Subme ATA	FIELD Filtrati	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Ty; DUPLICATE:	.006; eristaltic T: N pe: Y	1/2" = Pump;	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N	5/8" = ther (S) G .T: IZE:	0.016 pecify)
	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet):	PACITY (Gal. ODES: E FFILIATION: DN: PU	/Ft.): 1/8" = (B = Bailer; MP Y	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.003 ESP = Electric PLING D/ RE(S):	26; 5 Subme ATA replaced DN	FIELD Filtrati	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED T Y on Equipment Ty	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify)
CUBING IN: PURGING E SAMPLED I DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	ACITY (Gal. ODES: E FFILIATION: DN: PUI R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y ATION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL N PRESERVA	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r PRESERVATIO TOTAL VOL	26; 5 Subme ATA replaced DN	FIELD FIELD Filtration	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING IPMENT	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify) μm PLE PUMP DW RATE
PURGING IN SAMPLED I PUMP OR T DEPTH IN V	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	ACITY (Gal. ODES: E FFILIATION: DN: PUI R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y ATION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL N PRESERVA	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r PRESERVATIO TOTAL VOL	26; 5 Subme ATA replaced DN	FIELD FIELD Filtration	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING IPMENT	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify) μm PLE PUMP DW RATE
CUBING IN: PURGING E SAMPLED I DEPTH IN N FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIC PLE CONTAINE #	ACITY (Gal. ODES: E FFILIATION: DN: PUI R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y ATION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL N PRESERVA	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r PRESERVATIO TOTAL VOL	26; 5 Subme ATA replaced DN	FIELD FIELD Filtration	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING IPMENT	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify) μm PLE PUMP DW RATE
UBING IN URGING E AMPLED I DEPTH IN V IELD DEC SAMPLE D CODE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ACITY (Gal. ODES: E FFILIATION: DN: PUI R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y ATION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL N PRESERVA	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r PRESERVATIO TOTAL VOL	26; 5 Subme ATA replaced DN	FIELD FIELD Filtration	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING IPMENT	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify) μm PLE PUMP DW RATE
CUBING IN: PURGING E SAMPLED I DEPTH IN V FIELD DEC SAMPLE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / AI TUBING WELL (feet): CONTAMINATIO PLE CONTAINERS	ACITY (Gal. ODES: E FFILIATION: DN: PUI R SPECIFIC MATERIAL	/Ft.): 1/8" = (B = Bailer; MP Y ATION	D.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL N PRESERVA	5" = 0.0014; Pump; SAMI 5) SIGNATUI CODE: TUBING SAMPLE F	1/4" = 0.00) ESP = Electric PLING D/ RE(S): Y N (r PRESERVATIO TOTAL VOL	26; 5 Subme ATA replaced DN	FIELD FIELD Filtration	.004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT -FILTERED: Y on Equipment Ty; DUPLICATE: INTENDE ANALYSIS AI	.006; eristaltic f: N pe: Y ED ND/OR	1/2" = Pump; SAM	0.010; 0 = 0 SAMPLIN ENDED A FILTER S N IPLING IPMENT	5/8" = ther (S) G .T: IZE: SAMI FLC	0.016 pecify) μm PLE PUMP DW RATE

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

	S4				LC	CATION: Git	sonton, Florida				
ELL NO:	BKG			SAMPL	EID: BK	5- P2-1	03		DATE: 12	13/12	
						ING DA					
			ETER (inches): DE	PTH: 12 fe	et to 16 f	eet TO WAT	ER (feet):	ORE	GE PUMP TYPE BAILER:	
OUIPMEN	if applicable)		= (DTAL WELL DE	feet - (0	feet) X	WELL CAPAC	gallons/foot	2.4L = 0.63	gallons
			1		allons + (1	ons/foot X	feet)+	gallons =	gallons
	MP OR TUBIN WELL (feet):	G		JMP OR TUBIN N WELL (feet):	G	PURGIN		PURGING ENDED AT:		TOTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE	WATER	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	-ODOR (describe)
15:42	22	26			6,20	24.9	153.5	0,04	MAX	form	-186.2
	ZL	4L			5.83	24.3	125.8	1.52	MAX	BROWN	- 184,2
1	22	GL			5.99	24.2	124.5	1.17	MAX	KROWN	-247.0
	152	7.5L	-	-	6.06	241	126.7	1.03	6.64	ALOWA	-717.5
			-				-				
UBING INS URGING E	ACITY (Gallon SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A	ODES:	./Ft.): 1/8" = 1 B = Bailer;	0.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E	1/4" = 0.002 SP = Electric LING DA	6; 5/16" = 0. Submersible Pu	mp; PP = Po	0.006; 1/2" eristaltic Pump	= 0.010; 5/8 ; 0 = Other SAMPLING	' = 5.88 ' = 0.016 (Specify)
UBING INS	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING	ODES:	./Ft.): 1/8" = 1 B = Bailer;	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING	" = 0.0014; Pump; E: SAMP) SIGNATURE	1/4" = 0.002 SP = Electric LING DA	6; 5/16" = 0. Submersible Pu	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A P-FILTERED: Y	0.006; 1/2" eristaltic Pump T: N	= 0.010; 5/8 ; 0 = Other	' = 0.016 (Specify)
UBING INS URGING E AMPLED E UMP OR T EPTH IN V	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet):	PACITY (Gal	/Ft.): 1/8" = 1 B = Bailer;	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C	" = 0.0014; Pump; E: SAMP) SIGNATURE	1/4" = 0.002 SP = Electric LING DA E(S):	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrati	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A FILTERED: Y on Equipment Ty	0.006; 1/2" eristaltic Pump T: N pe:	= 0.010; 5/8 ; 0 = Other SAMPLING ENDED AT: FILTER SIZE:	' = 0.016 (Specify)
UBING INS URGING E AMPLED E UMP OR T EPTH IN V IELD DECC	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet): ONTAMINATIC	PACITY (Gal CODES: FFILIATION: DN: PU	./Ft.): 1/8" = 1 B = Bailer; MP Y	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING	* = 0.0014; Pump; E: SAMP) SIGNATURE : : : : : : : : : : : : :	1/4" = 0.002 SP = Electric LING DA (S): Y N (re	5/16" = 0. Submersible Pu ATA FIELD Filtration Splaced)	.004; 3/8* = 0 mp; PP = P SAMPLING INITIATED A' -FILTERED: Y On Equipment Ty DUPLICATE:	0.006; 1/2" eristaltic Pump T: N pe: Y	= 0.010; 5/8" ; 0 = Other SAMPLING ENDED AT; FILTER SIZE; N	' = 0.016 (Specify)
UBING INS URGING E AMPLED E UMP OR T EPTH IN V ELD DECO SAMP AMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet):	PACITY (Gal CODES: FFILIATION: DN: PU	./Ft.): 1/8" = 1 B = Bailer; MP Y	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C	* = 0.0014; Pump; E: SAMP) SIGNATURE : : : : : : : : : : : : :	1/4" = 0.002 SP = Electric LING DA E(S):	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrath eplaced) N FINAL	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A FILTERED: Y on Equipment Ty	2.006; 1/2" eristaltic Pump T: N pe: Y ED SA ND/OR EQ	= 0.010; 5/8" ; 0 = Other ENDED AT: FILTER SIZE: N MPLING S/ UIPMENT I	' = 0.016 (Specify)
UBING INS URGING E AMPLED E UMP OR T DEPTH IN V IELD DECO SAMP SAMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet): ONTAMINATIC LE CONTAINE #	PACITY (Gal CODES: FFILIATION: DN: PU R SPECIFIC MATERIAL	./Ft.): 1/8" = 1 B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVAT	* = 0.0014; Pump; E: SAMP) SIGNATURE : : : : : : : : : : : : :	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATIO OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrath eplaced) N FINAL	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A' -FILTERED: Y on Equipment Ty DUPLICATE: INTENDI ANALYSIS A	2.006; 1/2" eristaltic Pump T: N pe: Y ED SA ND/OR EQ	= 0.010; 5/8" ; 0 = Other ENDED AT: FILTER SIZE: N MPLING S/ UIPMENT I	' = 0.016 (Specify) μm AMPLE PUMP FLOW RATE
UBING INS URGING E AMPLED E UMP OR T EPTH IN V IELD DECO SAMPLE CODE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet): ONTAMINATIC LE CONTAINE #	PACITY (Gal CODES: FFILIATION: DN: PU R SPECIFIC MATERIAL	./Ft.): 1/8" = 1 B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVAT	* = 0.0014; Pump; E: SAMP) SIGNATURE : : : : : : : : : : : : :	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATIO OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrath eplaced) N FINAL	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A' -FILTERED: Y on Equipment Ty DUPLICATE: INTENDI ANALYSIS A	2.006; 1/2" eristaltic Pump T: N pe: Y ED SA ND/OR EQ	= 0.010; 5/8" ; 0 = Other ENDED AT: FILTER SIZE: N MPLING S/ UIPMENT I	' = 0.016 (Specify) μm AMPLE PUMP FLOW RATE
UBING INS URGING E SAMPLED E DEPTH IN V TIELD DECO SAMPLE	SIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING VELL (feet): ONTAMINATIC LE CONTAINE #	PACITY (Gal CODES: FFILIATION: DN: PU R SPECIFIC MATERIAL	./Ft.): 1/8" = 1 B = Bailer; MP Y :ATION	0.0006; 3/16 BP = Bladder SAMPLER(S TUBING MATERIAL C N PRESERVAT	* = 0.0014; Pump; E: SAMP) SIGNATURE : : : : : : : : : : : : :	1/4" = 0.002 SP = Electric LING DA ((S): Y N (re ESERVATIO OTAL VOL	6; 5/16" = 0. Submersible Pu ATA FIELD Filtrath eplaced) N FINAL	.004; 3/8" = 0 mp; PP = P SAMPLING INITIATED A' -FILTERED: Y on Equipment Ty DUPLICATE: INTENDI ANALYSIS A	2.006; 1/2" eristaltic Pump T: N pe: Y ED SA ND/OR EQ	= 0.010; 5/8" ; 0 = Other ENDED AT: FILTER SIZE: N MPLING S/ UIPMENT I	' = 0.016 (Specify) μm AMPLE PUMP 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)

Revision Date: February 12, 2009

	IS4					LO	E CATION: Gib	sonton	, Florida					
WELL NO:	BKG			SA	MPLE ID:	PK	GP2.	03	1		DATE:	12,	13/02	
					F		ING DA							
WELL DIAMETER	R (inches):	TUBIN	IG ETER (inches)	1.20			NTERVAL at to 18 fe		STATIC D			PURGE	E PUMP TY	PE
	UME PURGE: t if applicable)	1 WELL VC	DLUME = (TO = (TAL WELL	DEPTH feet				feet) X	WELL CAPACI	TY gallons/	/foot	3.17	
	NT VOLUME PO t if applicable)	URGE: 1 EQ	UIPMENT VO	L. = PUMF	VOLUME	+ (TUB	NG CAPACI	TY ons/foot		JBING LENGTH) feet)		CELL		
	MP OR TUBIN	G		IMP OR TU WELL (fe		s+(PURGIN	G	^	PURGING ENDED AT:	+		gallons = OTAL VOLU URGED (ga	JME
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE	DEP	TH) ER (sta	pH andard nits)	TEMP. (°C)	CC (circle µmh	DND. e units) ios/cm iS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation		DITY	COLOR (describe	ON
14:32	36	3L			6	18	24.5	17	8.2	0,19	MAY	(hown	1 -223.
16:42	36	62	1	1	5	.89	24.3	_	4.9	2.54	MAX		bou	218.2
16:51	36	92		-	6	,23	24,2	166	5	3.53	MA		bim	~ - 228,
TUBING IN	PACITY (Gallon ISIDE DIA. CAR EQUIPMENT C	PACITY (Gal.		.0006;	3/16" = 0.0 Ider Pump	0014; ; ES	; 2" = 0.10 1/4" = 0.002 SP = Electric LING DA	6; 5 Subme	5/16" = 0.	004; 3/8 " = 0.	5" = 1.02; .006; 1 eristaltic Pu	/2" =	0.010; 5	2" = 5.88 /8" = 0.016 her (Specify)
TUBING IN PURGING	ISIDE DIA. CAR	PACITY (Gal. ODES: 1	/Ft.): 1/8" = (B = Bailer;	0.0006; BP = Blac	3/16" = 0.0 Ider Pump	0014; ES AMPI	1/4" = 0.002 SP = Electric LING DA	6; 5 Subme	5/16" = 0.	004; 3/8 " = 0.	006; 1 ristaltic Pu	/2" =	0.010; 5	/8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A	PACITY (Gal. ODES: 1	/Ft.): 1/8" = (B = Bailer;	0.0006; BP = Blac SAMPLE TUBING	3/16" = 0.0 Ider Pump S R(S) SIGM	0014; ; ES AMPI NATURE	1/4" = 0.002 SP = Electric LING DA	6; 5 Subme	i/16" = 0.1 rsible Pur	004; 3/8" = 0. mp; PP = Pe SAMPLING	006; 1 ristaltic Pu : N	ump;	0.010; 5 0 = Oth SAMPLING	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING	FFILIATION:	/Ft.): 1/8" = (3 = Bailer;	0.0006; BP = Blac SAMPLE TUBING	3/16" = 0.(Ider Pump S. R(S) SIGN AL CODE:	0014; ; ES AMPI NATURE	1/4" = 0.002 SP = Electric LING DA (S):	6; 5 Subme	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y	006; 1 ristaltic Pu : N	ump;	0.010; 5 0 = Oth SAMPLING ENDED AT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE	PACITY (Gal. CODES: I FFILIATION: DN: PUI	/Ft.): 1/8" = (3 = Bailer; MP Y	0.0006; BP = Black SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 dder Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE	DO14; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL	6; 5 Subme ATA pplaced; N	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): XONTAMINATIC PLE CONTAINERS	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION	0.0006; BP = Black SAMPLE TUBING MATERI N PRESEF	3/16" = 0.(dder Pump S. R(S) SIGM AL CODE: TU SAM	DO14; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATIO	6; 5 Subme ATA pplaced; N	5/16" = 0. rsible Pur FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y DUPLICATE: INTENDE ANALYSIS AN	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N PLING PMENT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINE	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION	0.0006; BP = Black SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 dder Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE	DO14; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL	6; 5 Subme ATA pplaced; N	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y DUPLICATE: INTENDE ANALYSIS AN	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N PLING PMENT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAF EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): XONTAMINATIC PLE CONTAINERS	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION	0.0006; BP = Black SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 dder Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE	DO14; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL	6; 5 Subme ATA pplaced; N	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y DUPLICATE: INTENDE ANALYSIS AN	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N PLING PMENT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	ISIDE DIA. CAF	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION	0.0006; BP = Black SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 dder Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE	DO14; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL	6; 5 Subme ATA pplaced; N	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y DUPLICATE: INTENDE ANALYSIS AN	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N PLING PMENT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE ID CODE	ISIDE DIA. CAF	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION	0.0006; BP = Blac SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 dder Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE	0014; ES AMPI NATURE BING IPLE PR	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL	6; 5 Subme ATA pplaced; N	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y DUPLICATE: INTENDE ANALYSIS AN	006; 1 rristaltic Pu N pe: Y	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N PLING PMENT	V8" = 0.016 her (Specify)
TUBING IN PURGING SAMPLED PUMP OR DEPTH IN FIELD DEC SAMPLE	ISIDE DIA. CAR EQUIPMENT C BY (PRINT) / A TUBING WELL (feet): CONTAMINATIC PLE CONTAINERS	PACITY (Gal. CODES: I FFILIATION: DN: PUI ER SPECIFIC MATERIAL	/Ft.): 1/8" = (3 = Bailer; MP Y ATION VOLUME	0.0006; BP = Blac SAMPLE TUBING MATERI N PRESEF	3/16" = 0.0 Ider Pump S. R(S) SIGN AL CODE: TU SAM RVATIVE ED	BING PLE PR ADDE	1/4" = 0.002 SP = Electric LING DA (S): Y N (re ESERVATION OTAL VOL D IN FIELD (r	6; 5 Subme ATA pplaced; N nL)	FIELD Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE: INTENDE ANALYSIS AN METHOD	ND/OR	SAM	0.010; 5 0 = Oth SAMPLING ENDED AT FILTER SIZ N IPLING PMENT DDE	V8" = 0.016 her (Specify)

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 12, 2009



Appendix D: Soil Sample Descriptions

ID #	Location	Depth (ft bgs)	Munsell Soil Color
1		5.0-7.4	10YR 2/1
2		7.4-8.0	10YR 3/4
3]	8.0-11.3	10YR 3/3
4	DKC	11.3-12.2	10YR 2/2
5	BKG	12.2-13.0	10YR 3/2
6]	13.0-14.4	10YR 4/3
7]	14.4-15.0	10YR 5/2
8		15.0-18.9	10YR 4/2
9		5.0-6.2	10YR 3/2
10		6.2-7.3	10YR 2/2
11	DP04	7.3-8.3	10YR 2/2
12		8.3-10.0	10YR 5/3
13		10.0-12.5	10YR 5/2
14		5.0-7.1	10YR 3/2
15		7.1-7.8	10YR 2/2
16		7.8-9.8	10YR 2/1
17		9.8-12.7	10YR 3/2
18		12.7-13.8	10YR 4/2
19	E7	13.8-14.1	10YR 3/2
20		14.1-15.0	10YR 2/2
21		15.0-20.0	10YR 6/2
22		20.0-21.0	10YR 8/1
23		21.0-22.0	10YR 8/1
24		22.0-25.0	10YR 8/1

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					Pa	orticle Size Ditri	bution (% <2mr	n)			
ID#	Location	Depth (ft)			Sand Fractions	(%)			Total (%)		- Texture Class
10 #	Location	Depth (It)	Very Coarse	Coarse	Medium	Fine	Very Fine	Sand	Silt	Clay	Texture class
			2.0-1.0 mm	1.0-0.5 mm	0.5-0.25 mm	0.25-0.10 mm	0.10-0.05 mm	2.0-0.05	0.05-0.002	< 0.002	
1		5.0-7.4	0.1	5.8	47.4	37.3	6.3	94.4	3.3	2.3	sand
2		7.4-8.0	0.0	0.6	4.3	50.6	27.7	87.5	4.6	7.8	fine sand
3		8.0-11.3	0.0	0.3	2.5	55.6	29.2	86.8	4.9	8.3	loamy sand
4	BKG	11.3-12.2	0.1	0.6	2.8	51.2	17.2	69.2	15.7	15.1	sandy loam
5	BKG	12.2-13.0	0.0	0.1	2.8	76.4	15.9	94.3	3.5	2.2	fine sand
6		13.0-14.4	0.0	0.7	6.0	77.4	13.8	97.8	BDL	4.9	fine sand
7		14.4-15.0	0.1	0.6	3.9	70.0	21.2	95.5	1.1	3.4	fine sand
8		15.0-18.9	0.3	0.6	4.2	66.1	20.0	91.0	5.3	3.7	fine sand
9		5.0-6.2	0.2	3.3	25.7	48.9	12.7	90.5	6.7	2.7	sand
10		6.2-7.3	0.1	3.7	32.2	50.5	11.1	97.5	BDL	2.6	fine sand
11	DP04	7.3-8.3	0.2	3.7	34.6	40.9	5.7	85.0	10.8	4.2	loamy sand
12		8.3-10.0	0.2	4.4	30.2	59.9	2.7	96.9	BDL	4.1	fine sand
13		10.0-12.5	0.1	1.1	8.6	65.8	15.3	91.3	4.1	4.6	fine sand
14		5.0-7.1	0.0	1.3	40.1	52.5	4.8	98.8	BDL	2.6	fine sand
15		7.1-7.8	0.0	1.0	17.4	61.6	16.7	96.0	0.1	4.0	fine sand
16		7.8-9.8	0.0	2.1	17.9	51.7	15.4	84.0	12.3	3.7	loamy sand
17		9.8-12.7	0.0	0.7	20.8	64.2	11.0	95.8	1.1	3.2	fine sand
18	E7	12.7-13.8	0.4	8.3	53.4	29.9	2.7	94.9	3.9	1.3	sand
19		13.8-14.1	3.4	30.7	33.4	22.4	2.9	92.2	3.4	4.4	Coarse sand
21		15.0-20.0	14.3	13.6	16.6	20.6	2.7	68.5	16.6	15.0	sandy loam
Duplicate 14		5.0-7.1	0.0	1.2	38.1	53.9	4.8	98.3	BDL	2.0	fine sand
Duplicate 18		12.7-13.8	0.4	10.6	59.0	26.4	2.1	98.6	BDL	1.8	sand
STD			1.3	8.6	15.4	13.1	4.0	58.7	23.2	18.2	sandy loam
STD			3.6	14.5	22.8	14.9	4.0	60.2	17.6	22.2	sandy clay loam

Table D.2 Site C-HS4 Soil Particle Size Distribution

FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY C-HS4 INSTRUMENTATION REPORT

Appendix D

ID#	Location	Depth	TN	TKN	Org N	NH3-N	NOx-N	TIN	Р	Κ	Ca	Mg	Na	Ec	Cl	pН	BufpH	OrgMt	CEC	%C
		ft	mg/kg	ds/m	mg/kg			%	calc	calc - %										
1		5.0-7.4	398.6	398.0	396.6	1.41	0.60	2.0	173.2	22.24	180.7	4.43	18.09	0.04	17.31	4.70	7.26	3.58	8.22	2.40
2		7.4-8.0	264.7	264.7	263.2	1.46	0.05	1.5	154.6	16.80	73.70	4.72	14.99	0.02	5.28	4.49	7.10	2.84	8.69	1.90
3		8.0-11.3	165.8	165.8	164.5	1.23	0.06	1.3	122.5	15.63	105.0	12.95	25.20	0.04	3.16	4.55	7.35	1.62	7.33	1.09
4	BKG	11.3-12.2	746.2	746.2	744.2	2.00	0.02	2.0	142.7	18.76	109.3	14.72	20.74	0.06	6.20	4.56	6.84	4.18	11.33	2.80
5	DNG	12.2-13.0	190.1	190.1	188.5	1.65	-0.02	1.6	35.87	9.50	81.29	4.83	15.30	0.04	3.94	4.94	7.63	1.30	4.32	0.87
6		13.0-14.4	21.9	22.0	21.1	0.88	-0.10	0.8	1.11	6.68	61.20	0.50	9.84	0.02	4.42	5.55	7.95	0.52	1.31	0.35
7		14.4-15.0	47.1	47.1	45.2	1.89	-0.06	1.8	0.75	8.33	141.1	19.30	11.69	0.04	5.96	5.69	7.95	0.28	1.99	0.19
8		15.0-18.9	77.4	77.5	75.1	2.37	-0.00	2.4	6.74	12.44	191.1	83.89	20.53	0.26	7.33	4.66	7.90	0.50	3.67	0.34
9		5.0-6.2	100.8	99.7	98.0	1.74	1.08	2.8	11.52	5.34	95.33	23.29	10.83	0.10	13.69	5.10	7.82	0.62	2.72	0.42
10		6.2-7.3	91.4	90.3	88.7	1.59	1.13	2.7	27.18	7.13	117.7	24.28	10.86	0.08	9.93	5.54	7.82	0.70	2.89	0.47
11	DP04	7.3-8.3	176.7	176.4	175.1	1.25	0.32	1.6	60.44	9.63	211.0	49.17	11.71	0.06	10.54	5.66	7.70	1.23	4.62	0.82
12		8.3-10.0	50.9	50.4	49.3	1.10	0.53	1.6	25.13	6.63	135.2	32.22	10.00	0.06	5.76	5.51	7.85	0.43	2.75	0.29
13		10.0-12.5	62.5	62.1	60.5	1.60	0.36	2.0	8.72	10.72	174.3	77.32	14.44	0.28	5.46	4.59	7.89	0.60	3.30	0.40
14		5.0-7.1	27.2	26.8	26.0	0.76	0.44	1.2	10.39	4.44	51.02	9.43	8.78	0.06	5.06	5.75	7.95	0.21	1.23	0.14
15		7.1-7.8	194.2	193.9	192.5	1.49	0.29	1.8	142.3	4.54	63.63	11.79	15.33	0.18	10.82	4.33	7.63	1.71	4.16	1.15
16		7.8-9.8	897.8	897.8	896.3	1.46	0.02	1.5	221.1	6.79	110.1	38.65	28.15	0.12	18.93	4.25	6.91	6.48	10.99	4.34
17		9.8-12.7	201.8	201.6	200.3	1.24	0.25	1.5	36.85	5.46	64.93	8.72	13.59	0.06	6.34	4.93	7.79	1.06	2.81	0.71
18		12.7-13.8	50.2	50.1	49.2	0.93	0.06	1.0	14.92	4.48	40.46	3.03	10.92	0.06	4.59	5.05	7.94	0.21	1.30	0.14
19	E7	13.8-14.1	132.1	131.9	130.5	1.36	0.18	1.5	103.8	4.87	79.67	10.73	10.25	0.14	6.29	4.78	7.83	0.91	2.42	0.61
20		14.1-15.0	202.4	201.8	198.8	3.05	0.61	3.7	254.6	10.50	562.0	102.7	16.55	0.68	18.20	3.99	7.74	3.96	6.73	2.65
21		15.0-20.0	452.0	451.1	442.5	8.58	0.85	9.4	521.0	57.50	1880	368.4	69.78	1.00	48.19	6.23	7.55	4.57	20.58	3.06
22]	20.0-21.0	607.0	605.9	598.9	6.94	1.15	8.1	653.9	59.73	2479	678.6	73.98	1.62	452.9	7.63	7.74	5.82	24.88	3.90
23]	21.0-22.0	286.5	285.6	281.2	4.39	0.88	5.3	315.9	29.38	2546	1171	32.72	1.56	329.2	7.71	7.86	1.83	25.79	1.23
24]	22.0-25.0	354.1	353.3	348.1	5.20	0.84	6.0	295.5	34.94	3221	1552	34.16	2.70	594.2	7.16	7.81	2.82	32.94	1.89

Table D.3 Site C-HS4 Soil Sample Parameters

Notes:

 $^1 \text{Total}$ Nitrogen (TN) is a calculated value equal to the sum of TKN and NO_{X}

 $^2\text{Organic Nitrogen}$ (ON) is a calculated value equal to the difference of TKN and $\text{NH}_{3.}$

 $^3\text{Total}$ Inorganic Nitrogen (TIN) is a calculated value equal to the sum of NH_3 and NO_X

D.O. - Dissolved oxygen

Gray-shaded data points indicate values below method detection level (mdl), mdl value used for statistical analyses.

Yellow-shaded data points indicate the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit, value used for statistical analysis.

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PAGE D-3 HAZEN AND SAWYER, P.C.

	XSouth North St. Jo South South South DEP	west hns River Florida nnee River	RIDA WELL CO PLEASE, FILL C ("Denotes Re	OUT ALL APPLICAT equired Fields V	BLE FIELDS Vhere Applicab			Received Dec 11, 20	Date Stamp : D12 2:30 p	
Permit Number 825412		CUPMI	IP Number	•	DID Number		62-524 De	lineation N	lo	
"Number of permitted we										
	-									
"Owner's Name			1.00	4. Compl	etion Date 12/0	112012	o. Fiorida Uni	que ID		
"Well Location - Addres	ss Road	Name or Num	N/A							-
				10			Township	20	Deser	20
*County_HILLSBOROU							lownship_	30	Range	20
Latitude 2						140.07	M HAD OF		NOCAL	
Data Obtained From: 0. "Type of Work: _XC		the second s	and the second		Datum:	_NAD 27	X_NAD 83	s	NGS 84	-
Specify Intended Use(Domestic Bottled Water Suppl Public Water Supply Public Water Supply Class I Injection Class V Injection:R	ly (Limited (Commu	Use/DOH) Inity or Non-Co		rrigation	Livestock	ral Irrigation rrigation cial/Industrial rse Irrigation ecovery	X Moni Test Earti HVA	n-Coupled	on Geotherm	al
temediation:Recov										_
Other (Describe)										
3. Measured Static Wate		7.0 ft.	Measured Pumping	Water Level	ft .		Hours at		GPM	
5. "Casing Material:	Black S	SteelGa		ch isft CStain	Above	_Below Lan _Not Cased	dSurface * Other	Flowing:	Yes	N
	_Black S .0 ft. Ca _Othe	SteelGa ased Depth _1 er (Explain)	alvanized X PV 4.0 ft. *Open Hole:	ch isft CStainl : FromTo	Above ess Steel oft. *S	Below Lan Not Cased	d Surface * Other To	Flowing: ft. S	Yes	N
5. "Casing Material: 3. "Total Well Depth 7. "Abandonment: Fromft. To Fromft. To	_Black S .0 ft. Ca Othe ft. ft.	SteelGa ased Depth er (Explain) No. of Bags No. of Bags	4.0 ft. *Open Hole Seal Material Seal Material	ch isft CStainl : FromTo I (Check One):	Above ess Steel oft. "S	_Below Lan _Not Cased Screen: From	dSurface * Other	Flowing: ft. S	Yes	_
5. "Casing Material: 5. "Total Well Depth 7. "Abandonment: Fromft. To Fromft. To Fromft. To	Black S .0_ft. Ca Othe ft. ft. ft.	SteelGa ased Depth er (Explain) No. of Bags No. of Bags No. of Bags	4.0 ft. *Open Hole: Seal Material Seal Material Seal Material	ch isft CStainl : FromT I (Check One): I (Check One): I (Check One):	Above ess Steel oft. "S Neat Ce Neat Ce Neat Ce	_Below Lan _Not Cased Screen: From ement ement	d Surface * Other To Bentonite Bentonite	Flowing: ft. S Other Other Other	Yes	-
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft, of well.

1: Permit Number <u>282412</u> CUPWUP Number DID Number 62-524 Delineation No 2: Number of permitted wells constructed, repaired, or abandoned <u>4</u> "Number of permitted wells not constructed, repaired, or abandoned <u>4</u> 3: Owner a <u>4</u> "Completion Date <u>1297/2012</u> 5. Florida Unique ID 6		X Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority	PLEASE, FILL O ("Denotes Red		FIELDS			Date Stamp d: 2012 2:30 pm
2: Number of permitted wells not constructed, repaired, or abandoned ¹ Number of permitted wells not constructed, repaired, or abandoned 4: "Completion Date 1207/2012 5: Florida Unique ID 1: Owner's	Permit Number 825412	CUP/WU	P Number	"DID	Number	62-5	24 Delineation	No.
4. 'Completion Date 1207/2012 5. Florida Unique ID Name or Humber, City, ZIP 'County HILLSBOROUGH 'Section 'Dype of Work,Construction Repair								
Name or Number, City, ZIP *County, HiLLSBORCUGH *Section_31_Land Grant*Township_30_*Range_2 Datum: NAD 27_X_NAD 83WGS 84 *Type of Work: Construction			a se alger de la company					
"County HLLSBOROUGH "Section 31 Land Grant "Township 30 "Range 2 "County HLLSBOROUGH "Section 31 Land Grant "Township 30 "Range 2 "Diffyee of Work: X Construction Repair Modification Abandomment "Specify Intended Use(s) of Well(s) Landscape Irrigation Agricultural Irrigation Tigge of Work: X Construction Ste Investigation Bottled Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geotherma Public Water Supply (Community or Non-Community/DEP) Golf Course Irrigation HVAC Supply Class I Injection Recovery Air Sparge Other (Descrete) HVAC Supply Other (Descrete) Other (Descrete) Differ (Descrete) 21 Other (Descrete) Combination (Two or More Methods) Jetted Sonic 1. Measurge Point (Descrete) Water Level 10, ft. Measurge Pounging Water Level 1, ft. After Hours at Tools at Sonic Commercial Indiang 7. Abandommett Differ (Explain) Work 2, Sonic Tools and Sonic Comercial Bentonile Other 7. Abandommett Differ (Explain) Yes 2 Stel Material (Check One) Neat Cement Bentonile Other 7. Abandommett To ft. No of Bags Seat Material (Check One) Neat Cement Bentonile Other Stol Size <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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Other (Describe) **Drill Method: X_Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic **Measured Static Water Level 7.0 ft. Measured Pumping Water Level ft. After Hours at GPM *Measuring Point (Describe) Which is ft. Above Below Land Surface Flowing: Yes *Casing Material: Black Steel Galvanized X PVC Stainless Steel Not Cased Other *Coal Well Deph 15.0 ft. Cased Deph 14.0 ft. * Open Hole: From To ft. Storeen: From To ft. Stot Size *Coal Well Deph 15.0 ft. No. of Bags Seal Material (Check One) Neat Cement Bentonite Other From ft. To ft. No. of Bags Seal Material (Check One) Neat Cement Bentonite Other From ft. To ft. No. of Bags Seal Material (Check One) Neat Cement Bentonite Other Storace Casing Diameter and Depth: 0.1 n. ft. No. of Bags Seal Material (Check One)	lass V Injection:Re					eryDrainag		
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Contractor Name Douglas A Leonhardt T icense Number 2406 E-mail Address lisa@edsenvironmental.com	Measuring Point (Descr Casing Material: Total Well Depth	ibe)	Whic Vanized X PVC Ivanized X PVC Ivanized X PVC Ivanized Material Seal Material Seal Material Seal Material Seal Material Seal Material Seal Material No. of Bags No. of Ba	h isft Stainless FromTo (Check One): (Check One): (Check One): (Check One): (Check One): (Check One): Seal Material (Ch Seal Material (Ch	AboveBe SteelNotft. "ScreeeNeat CemenNeat Cemen	low Land Surfac t Cased	ce Flowing: Other To ft. To ft	Yes Slot Size or or or or or or other Other Other Other Other Other Other Other Other Other Other Other Other Other Other
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

	X Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority (I	("Denotes Red	UT ALL APPLICAE quired Fields W	LE FIELDS			Date Stamp d: 2012 2:30 pm
Permit Number 825412	CUP/WUP	Number	°D*	ID Number	62-	524 Delineation	No.
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'Owner's Name							
			4. oompi	Sion Date Therman	0, 1 101	ida onique io _	
	EK RD ss, Road Name or Numbe	r, City, ZIP					
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Data Obtained From:	GPS X Map	SUDJEV		Datum: NA	D 27 Y		WGS 84
	Construction Repair			the second s			1100.04
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712

(U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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Comments

 "Detailed Site Map of Well Location

 Site distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

 FORM LEG-R.005.02 (06/10) Rule 40D-3.411 (1)(a), FA.C. EFFECTIVE DATE: 9/12/2010

Permit Number <u>928412</u> 'CUPWUP Number 'DID Number 62-524 Delineation No		St. John South F Suwann DEP	vest est ns River Florida nee River	PLEASE, FILL O	OUT ALL APPLICAE Equired Fields W					Date Stamp ed: 2012 2:30	pm
"Number of permitted wells not constructed, repaired, or abandoned ⁶ Number of permitted wells not constructed, repaired, or abandoned "Owner's Name ⁴ . "Completion Date <u>1207/2012</u> 5. Florida Unique ID Well Location - Address. Road Name or Number, City, ZIP ^{NA} "County HILLSBOROUGH "Section <u>3</u>] Land Grant "Township <u>30</u> "Range <u>20</u> "Lablude GPS <u>X</u> Map Survey Datum NAD 27 <u>X</u> NAD 83 WGS 84 "Dype of Work <u>X</u> Construction Repair Modification <u>Abandoment</u> Site Investigation <u>Address</u> WGS 84 "Dype of Work <u>X</u> Construction Repair <u>Modification <u>Abandoment</u> <u>Modification <u>Address</u> WGS 84 "Dype of Work <u>X</u> Construction (Section Area Irrigation <u>Address Supply (Community OFP) Repair Work <u>Accessed</u> (Commercial/Industrial Disposal <u>Aquifer Storage and Recovery Trainage</u> <u>Modification HVAC Supply</u> Public Water Supply (Community OF Non-Community/OEP) Golf Course Inrigation <u>HVAC Supply</u> <u>Modification HVAC Supply</u> Class Infection <u>Auger Contage Commercial/Industrial Disposal Aquifer Storage and Recovery Trainage</u> <u>Modification <u>HVAC Supply</u> 2 noil Method <u>X</u> Auger <u>Contage Commercial/Industrial Disposal Aquifer Storage and Recovery Trainage</u> <u>Modification <u>HVAC Supply</u> 2 noil Method <u>X</u> Auger <u>To Farge</u> <u>Other (Decovere</u> <u>Vicinal Point (Decor</u></u></u></u></u></u>	Permit Number 825412		CUP/WUP	Number	-0	ID Number		62-524 [Delineation	No.	
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NA "Well Location - Address, Road Name or Number, City, ZIP "County HiLLSBOROUGH "Section _ 31 _ Land Grant "Township _ 30 _ "Range _ 26 Laitlude GPS _ X_ Map Survey											
Well Location - Address, Road Name or Number, City, ZIP **County_HILLSBORQUGH *Section* 31Land Grant* Township30* Range20 Data Obtained GPSX_Map Survey Datum: NAD 27X_NAD 83WGS 84 Data Obtained GPSX_Map Survey Datum: NAD 27X_NAD 83WGS 84 D: Type of Work. Construction Repair _Modification _Abandonment .*Specify Intended Use(Jo) Well(s) Landscape Imigation _Arricultural Imigation _Site Investigation _Dornestic Landscape Imigation _Arricultural Imigation _Modification _Modification Public Water Suppty (Community or Non-Community/DEP) _Goil Course Imigation _HVAC Suppty _HVAC Suppty Other (Decorbe) _ContinectailIndustrial _Earth-Coupled Geothermal _HVAC Suppty Other (Decorbe) _Other (Decorbe) _HVAC Return _HVAC Return 21 Onit Method X_Auger Cable Tool _Rotary CommercialIndustrial _Goil Course ingation _HVAC Return 1: Measure Origoin (Decorbe) _Wirk Mathod X_Auger Tobart Notification Philos				T 16							
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET. BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

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SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

From 0.0	ft.	To 15.0	ft.	Color TAN	Grain Size (F. M. C)FINE	Material SAND
From	ft.	То	fL	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
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From	ft	To	ft	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F. M. C)	Material

Comments

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

6. Name or Number, City, ZIP 7. *County_HILLSBOROUGH *Section_31_Land Grant	Official Use Only
4. 'Completion I A. 'Completion I A. 'Completion I A. 'Completion I A. 'County HILLSBOROUGH 'Section_31_Land Grant	umber 62-524 Delineation No
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Name or Number, City, ZIP *County_HILLSBOROUGH *Section_31_Land Grant	Date 12/07/2012 5. Florida Unique ID
Data Obtained From: GPS X Map Survey Dature D: Type of Work: X Construction Repair Modification Abandonment Specify Intended Use(s) of Well(s):	
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lass V Injection: RechargeCommercial/Industrial DisposalAquifer Storage conter (Describe)	Agricultural Irrigation Livestock X Monitoring Nursery Irrigation Test Commercial/Industrial Earth-Coupled Geothermal Golf Course Irrigation HVAC Supply HVAC Return
2.* Drill Method: X Auger Cable Tool Rotary Combination (T Horizontal Drilling Hydraulic Point (Direct Push) Hydraulic Point (Direct Push) Hydraulic Point (Direct Push) 8.* Measured Static Water Level 7.0 ft. Measured Pumping Water Level Attack 9.* Measuring Point (Describe)	ge and RecoveryDrainage
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ump Depthft. Intake DepthftLabo 4. Water Well Contractor:	oratory TestField Test Kit
Contractor Name Douglas A Leonhardt *License Number 2406	

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From 0.0	ft.	To 15.0	ft_	Color TAN	Grain Size (F. M. C)FINE	Material SAND
From	ft.	То	ft.	Color	Grain Size (F. M. C)	Material
From	ft	To	ft.	Color	Grain Size (F. M. C)	Material
From	ft.	То	ft	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft.	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft.	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft.	Color	Grain Size (F. M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F. M. C)	Material
From	ft.	То	ft.	Color	Grain Size (F. M. C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
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From	ft.	To	ft	Color	Grain Size (F. M. C)	Material

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft, of well.

CONT IN	X Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority	PLEASE, FILL O (*Denotes Red	UT ALL APPLICAE quired Fields W	N REPORT LE FIELDS (here Applicable)			Date Stamp eived: 11, 2012 2:30 p Official Use Oni	
"Permit Number 825412	CUP/WU	P Number	*D	ID Number		62-524 Delinea	tion No.	
	ells constructed, repaired							
			4. Compil	anon Date Inone		Torida orrigue i		-
	SS, Road Name or Numb	N/A er, City, ZIP						-
County HILLSBOROU	GH Se	ction 31 Lan	d Grant			ownship 30	*Range	20
	GPS X Map	Survey	1000	Datum: N	AD 27 X	NAD 83	WGS 84	
	ConstructionRepa		Abando	nment				
. Specify Intended Use(Domestic		Landscape Irrigatio		Agricultural	Irrigation	Site Inves	tigation	
Bottled Water Suppl	lv	Recreation Area In		Livestock Nursery Irrig	ation	X Monitoring	9	
Public Water Supply	(Limited Use/DOH)			Commercia		and the second se	upled Geotherma	al
Public Water Supply	(Community or Non-Cor	nmunity/DEP)		Golf Course	Irrigation	HVAC Su	pply	
Class I Injection						HVAC Re	turn	
	echarge Commerci veryAir Sparge					ainage		
	veryAir Sparge	Other (Describe)						-
Other (Describe)								_
Drill Method: X	AugerCable Too	Rotary	Combinat	on (Two or More	Methods)	Jetted	Sonic	
	Horizontal Drilling			0.1				
		Hydraulic Pol	nt (Direct Push	Other_			0.514	
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW:SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

From	0.0 ft.	To 15.) ft.	Color TAN	Grain Size (F. M. C)FINE	Material SAND
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From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material

Comments

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

	X Southwe Northwe St. John South Fl Suwann DEP	est is River lorida	PLEASE, FILL O ("Denotes Re	UT ALL APPLICAB quired Fields W	LE FIELDS There Applicable)			Date Stamp d: 2012 2:30 pm
"Permit Number 825412	2	CUP/WUP N	umber	*D	ID Number	62-	524 Delineation	No
"Number of permitted w	ells constru	cted, repaired, or	r abandoned	8 Number	of permitted wells	not constructed	, repaired, or a	bandoned 0
"Owner's Name				4. Comple	ation Date 12/07/20	12 5. Flori	da Unique ID _	
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Bottled Water Supp			ecreation Area Ir	rigation	Nursery Irriga	tion	Test	
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

WWW.NWFWMD.STATE FL.US

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999

SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

From 0.0	ft	To 11.0	ft.	Color TAN	Grain Size (F, M, C)FINE	Material SAND
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Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

	X Southwe Northwe St. John South Fl Suwann DEP	est is River lorida	(*Denotes Re	UT ALL APPLICAB quired Fields W	LE FIELDS			Received Dec 11, 2	Date Stamp d: 2012 2:30	pm
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"Owner's Name				4. Comple	tion Date 12/07	/2012 5	Florida Un	ique ID		
	Na	ame or Number,	City, ZIP							
County HILLSBOROU	GH							_		
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. Type of Work: X C			Modification	Abandor						
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

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SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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omments

*Detailed Site Map of Well Location

Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

DE THE STATE OF DE	REPAIR, MODIFY, OF X Southwest Northwest St. Johns River South Florida Suwannee River DEP Delegated Authority (R ABANDON A WELL PLEASE FILL OUT ALL A (*Denotes Required The water well contractor this form and forwarding t appropriate delegated aut	PPLICABLE FIELDS Fields Where Applicable) is responsible for completing the permit application to the thorty where applicable	Permit No. 825412 Florida Unique ID Permit Stipulations Required (See 23, 39 62-524 Quad No. Q3119 Deline CUP/WUP Application No. ABOVE THIS LINE FOR OF	ation No
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Well Location - Add	iress, Road Name or Num	ber, City		1073	
4 31 *Section or Land Gra 5 Douglas A Leonhard *Water Well Contract	ant "Township "Rang it ctor	HILLSBOROUGH e "County 2406 *License Number	(407) 295-3532 Telephone Number	Lot Block Check if 62 Ilsa@edsenvironmental.co E-mail Address	
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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Comments:

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General Site Map of Proposed Well Location

Identify known roads and landmarks, Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION # 23 - TEST/MONITOR WELL

A. This well is to be used as a test/monitor well. If it is to be converted into a production well, an additional permit shall be obtained.

B. There shall be no injection of fluids into the monitor well without prior written approval from the Florida Department of Environmental Protection (DEP) or the District. This includes, but is not limited to treated ground water, or the introduction of microbes for in-situ aquifer restoration.

C. The well shall be constructed in such a manner to prevent the unauthorized interchange of water between different water bearing zones (i.e., breaching of confining beds, clays or hardpan intervals) as per Chapter 62-532.500 (3)(e), Florida Administrative Code (F.A.C.).

D. Prior written approval from the District shall be required if the monitor well will be pumped for use in hydrodynamic control and/or contaminant plume management, if quantities reach or exceed requirement of a Water Use Permit.

E. All monitor wells constructed at any facility which has been designated as a ground water contamination site, or a possible ground water contamination site, shall adhere to the construction standards set forth by the DEP and other applicable rules.

F. In the event the well needs to be abandoned, an abandonment permit shall be obtained prior to commencing with abandonment operations.

G. An observer from our Regulation Department is required on all abandonments to ensure compliance with applicable 40D-3 regulations. Please contact the Field Service Supervisor in the Tampa Office at (813) 985-7481 for additional information.

Permit No. 825412

COPY TO OWNER TO BE PROVIDED BY CONTRACTOR

(11/03)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

STIPULATION NUMBER 39 - WELL AND DRILLHOLE ABANDONMENT

It will be the **water well contractor's** responsibility to have any incomplete well or drillhole attempted under this permit properly abandoned.

Any incomplete or abandoned well or drillhole as described in 40D-3, Florida Administrative Code (F.A.C.), shall be abandoned as follows:

A. The well shall be examined from land surface to the original depth of construction for debris or obstructions (any debris or obstruction shall be removed prior to abandonment).

B. The well shall be plugged from bottom to top by an approved method of grouting with either Portland neat cement grout or an approved Bentonite product as specified in 40D-3.517 2. (b), F.A.C.

It will be the **owner's** responsibility to have any well completed under this permit, or any existing well on this property, which meets the definition of an abandoned well as defined in Chapter 40D-3.021(1), F.A.C., properly abandoned in accordance with Chapter 40D-3.531, F.A.C.

If any well constructed under this permit will replace any existing well deemed abandoned or triggers an unauthorized Water Use situation, then the existing well must be plugged within 30 days of new well completion. A plugging permit will be required.

It will be the **owner's** responsibility to have any inactive well, which does not meet the above criteria and is no threat to the water resource properly capped in an air and watertight manner with a threaded, welded or bolted cover or valve. If the pump and well seal are water tight, the pump may be left in place. If practical, a protective cover two (2) feet in height shall be placed around the well casing.

A. Wells with a diameter of six (6) inches or more without pumping equipment shall have the well casing extended a minimum of two (2) feet above land surface.

B. Wells with a diameter of less than six (6) inches without pumping equipment shall be securely set in a concrete slab and have either the well casing extended a minimum height of two (2) feet above land surface or a protective cover centered over the well casing. The concrete slab shall be a minimum of four (4) inches in thickness by two (2) feet by two (2) feet square. The protective cover shall be set in the concrete slab and extend a minimum of two (2) feet above land surface.

In flood prone areas all wells shall extend a minimum of one (1) foot above the 100 year flood elevation, if practical, in accordance with Chapter 40D-3.521(4), F.A.C.

Any plugging operations shall be permitted separately from this permit by the Southwest Florida Water Management District and be witnessed by a designated District representative. Arrangement for a District representative shall be made with the local District Field Services office a minimum of 24 hours in advance of these operations. A District representative will be available for assignment during normal working hours (8:00 AM - 4:30 PM), Monday through Friday. Travel time must be taken into consideration. Exemptions may be made for extenuating circumstances. For scheduling, please contact the Field Service Supervisor in the Tampa office at (813) 985-7481.

Permit Number: 825412

(Updated 07/11)



Appendix E: December Groundwater Sampling

Table E.1 Field Parameter Results (December 3 through 7, 2012)						
	Temp (°C)		Specific Est.		Est.	
Sample ID		рН	Conductance	NO3-N	NO2-N	
			(µS/cm)	(Test Strip mg-N/L)	(Test Strip mg-N/L)	
PZ01	23.4	5.61	472	2	0	
PZ-AB4-08	NR	5.97	407	0	0	
PZ-AB4-15	NR	7.57	597	0	0	
PZ-C2	25.0	5.92	160	NR	NR	
PZ-C3-08	23.9	5.83	344	NR	NR	
PZ-C3-15	NR	6.23	534	NR	NR	
PZ-C6-08	NR	4.26	537	0	0	
PZ-C6-15	NR	5.26	414	0	0	
PZ-D3-08	24.8	6.01	462	NR	NR	
PZ-D3-15	NR	6.58	491	0	0	
PZ-D4-08	23.4	5.47	302	NR	NR	
PZ-D4-15	NR	5.98	429	0	0	
PZ-E2	23.9	6.15	273	NR	NR	
PZ-E3-08	21.7	5.93	594	NR	NR	
PZ-E3-15	NR	6.31	345	0	0	
PZ-E4-08	23.4	5.57	328	0	0	
PZ-E4-15	24.3	6.31	634	0	0	
PZ-E5-08	23.7	5.48	472	1	0	
PZ-E5-15	24.3	5.84	502	0	0	
PZ-E6-08	23.7	5.43	531	0	0	
PZ-E6-15	24.2	5.36	522	0	0	
PZ-E7-08	23.9	5.02	550	6	0	
PZ-E7-15	NR	6.08	834	0	0	
PZ-F3-08	23.1	5.48	329	0	0	
PZ-F3-15	NR	6.22	447	0	0	
PZ-F4-08	23.5	4.87	396	1	0	

FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY C-HS4 INSTRUMENTATION REPORT

PAGE E-1 HAZEN AND SAWYER, P.C.

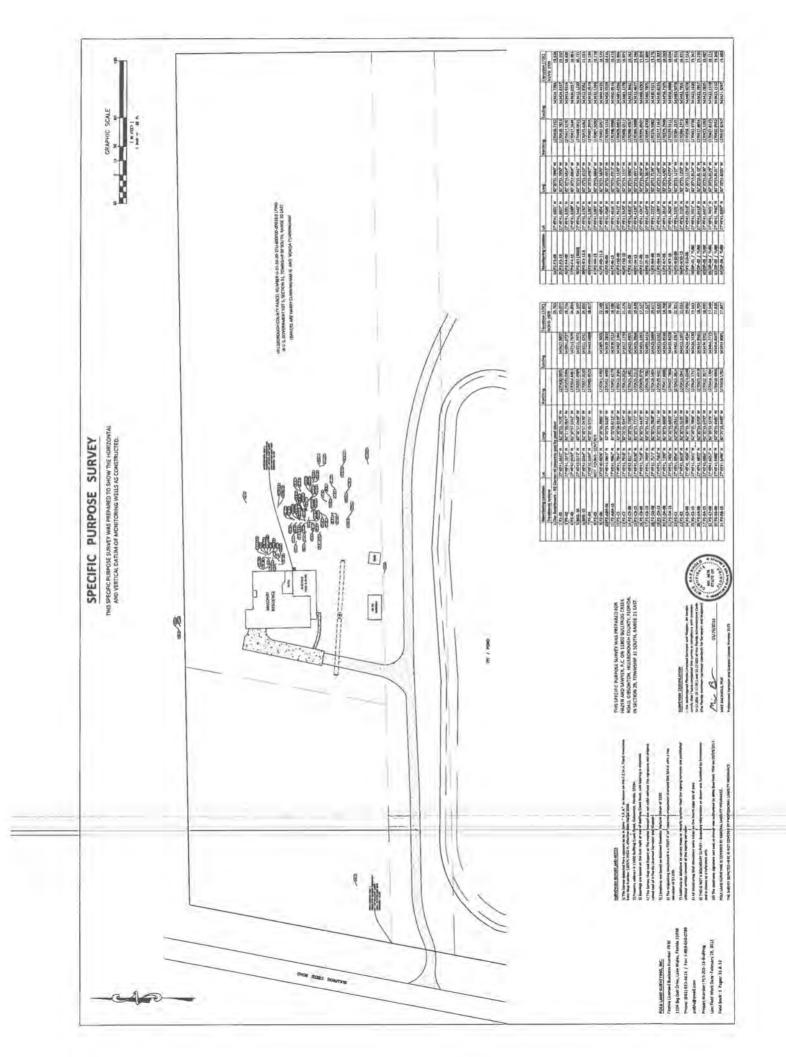


Table E.1
Field Parameter Results
(December 3 through 7, 2012)

	Temp	рН	Specific	Est.	Est.	
Sample ID	(°C)		Conductance	NO3-N	NO2-N	
	(0)		(µS/cm)	(Test Strip mg-N/L)	(Test Strip mg-N/L)	
PZ-F4-15	NR	6.07	613	0	0	
PZ-H4-08	NR	4.71	337	1	0	
PZ-H4-15	NR	6.46	535	0	0	
PZ-16-08	NR	4.48	3.84	1	0	
PZ-I6-15	NR	5.55	501	0	0	
PZ-I10-08	NR	6.19	671	6	0	
PZ-I10-15	NR	6.89	815	0	0	
PZ-J4-08	NR	5.37	374	5	0	
PZ-J4-15	NR	6.22	530	0	0	
PZ-J7-08	24.0	5.54	488	5	0	
PZ-J7-15	NR	5.32	271	0	0	
PZ-N4-08	NR	6.17	401	0	0	
PZ-N4-15	NR	6.47	578	0	0	
PZ-N7-08	NR	6.09	588	NR	NR	
PZ-N7-15	NR	5.23	344	NR	NR	
PZ-N10-08	NR	6.36	512	0	0	
PZ-N10-15	NR	6.78	937	0	0	
PZ-S10-08	NR	6.29	351	0	0	