

Entered
9/10/10
MNR

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SPRINGS SAMPLING FIELD SHEET

Location Information

STATION ID: <u>9782</u>	DATE: <u>10/29/2009</u> (MM/DD/YYYY)	TIME (EST): <u>15:36</u> (24 hr) (Final field measurements; start of sampling)
SPRING NAME: <u>Blue Grotto</u>	VENT ID: _____	
WEATHER CONDITIONS (Circle One)	Clear ☐ Partly Cloudy ☒ Cloudy ☐ Rain ☐	

Water Quality Measurements

Secchi Depth: <u>5.8L</u> (meters)	Secchi Visible on Bottom ☒ Yes ☐ No (Circle One)						
Stage (if available): _____ (Feet)							
Estimated depth in vent from which laboratory samples were collected: <u>5.8</u> (meters)							
Analytes collected for this site are as listed per the container inventory, including QA/QC samples ☒ Yes ☐ No							
Field Measurements (if field measurement result has to be qualified, enter F next to the value below):							
Estimated Depth (meters)	Meter Id	Measure ment #	pH (s.u.)	D.O. (mg/L)	% D.O.	Temperature (°C)	Conductivity (uS/cm)
<u>5.8</u>	<u>QD02228</u> <u>Q+02027</u>	<u>8</u>	<u>7.1</u>	<u>3.32</u>	<u>39.4</u>	<u>23.9</u>	<u>518</u>

Sample Preservation

Was a new 0.45-micron capsule filter used to collect the final metals and nutrients/anions samples?	☒ Yes ☐ No (Circle One)
Were all appropriate samples preserved within 15 minutes?	☒ Yes ☐ No
Were total nutrient samples preserved with sulfuric acid?	☒ Yes ☐ No Total volume added <u>1</u> (mL) Final pH <u>4.2</u> (s.u.)
Were filtered nutrient samples preserved with sulfuric acid?	☐ Yes ☐ No Total volume added _____ (mL) Final pH _____ (s.u.)
Were total metal samples preserved with nitric acid?	☒ Yes ☐ No Total volume added <u>1</u> (mL) Final pH <u>4.2</u> (s.u.)
Were filtered metal samples preserved with nitric acid?	☐ Yes ☐ No Total volume added _____ (mL) Final pH _____ (s.u.)
If additional bottles for the nutrient or metal samples were preserved, note volume of acid added and final pH for each one in the Comments)	
Were all appropriate samples, in accordance with the container inventory, put on wet ice at 4°C?	☒ Yes ☐ No

COMMENTS:

-HNO₃ lot #1108110 exp 8/4/19
-H₂SO₄ #083890
exp: 3/27/10


QAQC BLANK 5
SPRC0910
15:52

10/29/09

QA/QC TAKEN? Yes

TIME COLLECTED <u>15:52</u>
(Circle One)
☒ EQUIPMENT BLANK
☐ FIELD BLANK
Blanks collected in accordance with Springs Initiative Monitoring SOP

Samplers Signatures (all team members present):

Laura Ellis [Signature]

	<u>15:36</u>
BLUE GROTT0	<u>10/29/09</u>
SPRC0910 1ST MAG. SPRING	

STATION ID: 9772DATE: 10-29-09TIME (EST): 15:36

CHEMICAL STABILITY MONITORING

#	TIME (00:00)	pH (s.u.)	TEMP. (°C)	SP. COND (uS/cm)	DO (mg/L)	% SAT DO (%)	COMMENTS
1	15:22	7.09	23.89	522	3.50	41.5	Began @ 15:12
2	15:24	7.09	23.89	520	3.45	41.0	
3	15:26	7.10	23.88	521	3.41	40.5	
4	15:28	7.10	23.88	521	3.39	40.1	
5	15:30	7.10	23.89	519	3.36	40.0	
6	15:32	7.09	23.90	521	3.34	39.7	
7	15:34	7.12	23.89	521	3.33	39.6	
8	15:36	7.08	23.89	518	3.32	39.4	
9							
10							
11							
12							
13							
14							
15							

Meter Id: QD02228-Q102027Field Measurements Analyzed By: UH (initials)Field Measurements Recorded By: UH (initials)

The final three measurements will be evaluated for each of the field parameters listed above (only the values in mg/L for DO) to ensure that representative measurements have been collected for a site. The lowest and highest values for the three measurements must be within 20% when calculating the relative percent difference (RPD). If these values are not within 20%, the final field measurement value will be qualified as being estimated with an F value qualifier.

$$\text{RPD} = \frac{(\text{Highest Value} - \text{Lowest Value})}{(\text{Mean Value of Highest and Lowest Values})} \times 100\%$$