



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: <u>FDEP/8034</u>	FLUWID: <u>N/A</u>	OWNER:
STATUS RANDOM ID:	STATION NAME: <u>Blue Spring</u>	PROJECT: <u>MSFNS</u>
LAND SURFACE ELEV.(LSE): <u>N/A</u>	CASING MATERIAL: <u>N/A</u>	TOTAL DEPTH: <u>N/A</u>
MEASURING POINT ELEV.(MPE): <u>N/A</u>	CASING DIAMETER: <u>N/A</u>	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 10:00 8-28-13 Date/Time Off Site: 11:45 8-28-13

Field Sheet Completed By: PB WQ Samples Collected By: ME

POTENTIOMETRIC METHOD

(Stickup is MPE - LSE)

Total Depth - (Depth to Water - Stickup) = Water Column Height	(*DTW = N/A if not measurable)	Second Reading
<u>NA</u> - <u>NA</u> = <u>N/A</u> ft	(WCH)	<u>N/A</u> ft
DTW - SU =		(WCH)

TAPE / CHALK METHOD

Total Depth - ((Held at - Wetted At) - SU) = Water Column Height
1. <u>NA</u> - ((<u>NA</u> - <u>NA</u>) - <u>NA</u>) = <u>NA</u>
2. <u>NA</u> - ((<u>NA</u> - <u>NA</u>) - <u>NA</u>) = <u>NA</u>
DTW - SU =

PURGE METHOD (Check one):

- ☐ 1) 1.5 well volumes and stability ☒ 2) In-place plumbing purge and stability (continuous and intermittently running wells) *
☐ 3) More than 1.5 well volumes and stability ☐ 4) Fully dry purge (not recommended)
☐ 5) Purged 5 or more well volumes without stability (explain in comments) ☐ 6) Other (explain in comments)

MINIMUM PURGE VOLUME DETERMINATION

.041 X Diameter X Diameter X Water Column Height X # Well Purge Volumes = Min. Purge Volume (gal.)

.041 X NA X NA X 1.5 = NA

Water Column Height (WCH) X Well Capacity X # Well Purge Volumes = Min. Purge Volume (gal.)

NA X NA X 1.5 = NA (gal.)

1 Well Purge Volume: NA (gal.) 1/4 Well Purge Volume: NA (gal.) Volume of tank (if required to purge): NA (gal.)

Well Capacity (Gallons per ft) : .75" = .02, 1" = .04, 1.25" = .06, 2" = .16, 3" = .37, 4" = .65, 5" = 1.02, 6" = 1.47, 8" = 2.62, 10" = 4.10, 12" = 5.88

Purge Equipment Used: peristaltic Sample Equipment Used: peristaltic
Please include type of pump (peristaltic, submersible, etc.) AND pump ID# (ex. Redi-flo #1, Grundfos #2, etc.)

Minimum Purge Time: (Min. Purge Volume/Purge Rate) N/A (min.)

Time Purge Begin: 11:00 (24hr) Time Purge Stop: 11:10 (24hr) Purge Rate: 2.5 0.25 (gal/min)

Total Purge Time: 10 (min.) Total Purge Volume: 2.5 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 11:11 (24 hr) Time Sampling Stop: 11:25 (24 hr)

<u>N/A</u> PLACE FLUWID LABEL HERE (if applicable)	<u>Blue Spring</u> PLACE SITE LABEL HERE	<u>Spring Egg Blank 1</u> PLACE QA/QC LABEL HERE (if applicable) <u>10:30 / Duplicate</u>
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QA/QC Sample: N/A Field Blank Equipment Blank Time (24hr): 10:30
 (Circle One) (Field-cleaned) (Lab-cleaned)
 Equipment Used: peristaltic Collected by: ME

Well Condition: N/A (natural spring) Fuel-Powered Equipment Used? Yes (No) (Circle One)

Placement Depth of Tubing or Pump Intake: @ the boil

Drawdown Monitored? (Circle One) No (N/A) Yes, no drawdown Yes, drawdown noticed and corrected for
 This is verified by recording depth to water in the Chemical Stability Monitoring section.

Sulfur Odor?: (Circle One) Yes No Color:

Personnel/Visitors On Site: Mike Eckles / Paul Blair

Weather Conditions: clear

PRESERVATION INFORMATION ☐ N/A (No samples collected; non-quarterly Trend month, etc.)

Were all appropriate samples (including QA/QC blanks) preserved within 15 minutes including the following: wet ice (<6°C); nutrient samples with 1 mL sulfuric acid; metal samples with 1 mL nitric acid; ortho-phosphate sample filtered with a .45µm filter; and anion, metal and nutrient samples filtered with a .45µm filter (for Oct. TREND network only) Yes No

Were all acidified samples verified that the pH was less than 2 SU? Yes No
 Preservative Lot #: Sulfuric 126185 3137010 Nitric 443020 3137020 Preserved By: PB

(Please describe any variations to this preservation protocol in the comments section below.)

COMMENTS: (Include any variations from normal preservation protocols; ex. adding more than 1 ml acid, unable to monitor depth to water because..., etc.)

* spring: readings every 3 min for 9 min, 1 reading @ 10 min then collect sample
 Duplicate sampled

CHEMICAL STABILITY MONITORING Meter ID# YSI 600XLM #11 Read By: PB

	Time (24hr.)	Volume Purged (gallons)	Purge Rate (gal/min)	Depth to Water (feet)***	Temp. (°C)	Cond. (µmhos/cm)	DO (%)	DO (mg/L)	pH (SU)	Turbidity (NTU)	Comments
1	11:03		0.25		23.00	383	57.8	4.96	7.2	0.90	
2	11:06		" "		22.9	383	56.3	4.82	7.1	0.82	
3	11:09		" "		22.9	383	55.5	4.76	7.0	0.79	
4	11:10				22.9	383	55.2	4.74	6.9	0.67	
5											
6											
7											
8											
9											
10											

Stability Criteria: Temp. ± 0.2°C Specific Conductance ± 5.0% of reading DO ≤ 20% pH ± 0.2 SU Turbidity ≤ 20 NTUs

If DO > 20% or Turbidity > 20 NTUs then: DO ± 0.2 mg/L or 10%, whichever is greater and Turbidity ± 5 NTUs or 10%, whichever is greater

*** Depth to Water needs to be documented if well diameter allows room for both tubing/pump and potentiometer. Not applicable to wells with in-place plumbing. If not applicable, please write "N/A" for this column.

Sampler Names: Paul Blair

(Please PRINT)

Sampler Signatures: Paul Blair

Mike A. Eckles

OFFICE USE ONLY

Reviewed for completion by:

Date: