



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: <u>FDEP/2034</u>	FLUWID: <u>AAN3426</u>	OWNER:
STATUS RANDOM ID:	STATION NAME: <u>MSFMW3</u>	PROJECT: <u>MSF Nutrient Study</u>
LAND SURFACE ELEV.(LSE): <u>40.4</u>	CASING MATERIAL: <u>PVC</u>	TOTAL DEPTH: <u>33</u>
MEASURING POINT ELEV.(MPE): <u>43.1</u>	CASING DIAMETER: <u>4"</u>	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 8-20-13 11:00 Date/Time Off Site: 12:15 8-20-13

Field Sheet Completed By: RB 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>33</u> - (<u>17.66</u> - <u>2.7</u>) = <u>18.04</u> ft	<u>18.04</u> ft
DTW - SU = <u>14.96</u> (WCH)	(WCH)

TAPE / CHALK METHOD

Total Depth - ((Held at - Wetted At) - SU) = Water Column Height
1. _____ - ((_____ - _____) - _____) = _____
2. _____ - ((_____ - _____) - _____) = _____
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 _____ X _____ X _____ X 1.5 = _____

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

18.04 X 0.65 X 1.5 = 17.58 (gal.)

1 Well Purge Volume: 11.72 (gal.)

1/4 Well Purge Volume: 2.93 (gal.)

Volume of tank (if required to purge): _____ (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: 2" submersible Redi-Flo #1 Sample Equipment Used: 2" Redi-Flo #1
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) 17.58 (min.)

Time Purge Begin: 11:30 (24hr)

Time Purge Stop: 11:48 (24hr) Purge Rate: 1 (gal/min)

Total Purge Time: 18 (min.)

Total Purge Volume: 18 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 11:49 (24 hr)

Time Sampling Stop: 11:56 (24 hr)

AAN3426
PLACE
FLUWID LABEL HERE
(if applicable)

MSFMW3
PLACE
SITE LABEL HERE

PLACE QA/QC LABEL HERE
(if applicable)

QA/QC Sample: N/A Field Blank Equipment Blank Time (24hr): _____
 (Circle One) (Field-cleaned) (Lab-cleaned)
 Equipment Used: _____ Collected by: _____

Well Condition: normal Fuel-Powered Equipment Used? Yes No
 (Circle One)

Placement Depth of Tubing or Pump Intake: 20'

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: p. cloudy

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 Preserved By: ME

Preservative Lot #: Sulfuric 126165 Nitric 1113020

(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.)

CHEMICAL STABILITY MONITORING										Meter ID# <u>YSI 600 XLM #11</u>		Read By: <u>PB</u>	
	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	11:42	12	1	17.93	24.1	173	68.1	5.72	9.44	9.62	2.12		
2	11:45	15	1	" "	23.9	174	68.2	5.75	9.3	1.44			
3	11:48	18	1	" "	23.9	173	68.3	5.76	9.3	0.70			
4													
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 Mike Eckles

Sampler Signatures: Paul Blair Mike Eckles

OFFICE USE ONLY

Reviewed for completion by: _____

Date: _____