



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: 8034/FDEP	FLUIDID: AAN3418	OWNER: Allan Singh
STATUS RANDOM ID:	STATION NAME: MSF-MW-16	PROJECT: SPRS1310
LAND SURFACE ELEV.(LSE):	CASING MATERIAL: PVC	TOTAL DEPTH: 70
MEASURING POINT ELEV.(MPE):	CASING DIAMETER: 4"	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 11:00 12-17-13 Date/Time Off Site: 11:45 12-17-13

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>70</u> - (<u>48.9</u> - <u>3.27</u>) = <u>24.37</u> ft	<u>24.37</u> ft
DTW - SU = <u>45.63</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.)

24.37 X 0.65 X 1.5 = 23.76 (gal.)

1 Well Purge Volume: 15.84 (gal.) 1/4 Well Purge Volume: 3.96 (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" 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) 11.88 (min.)

Time Purge Begin: 11:10 (24hr) Time Purge Stop: 11:24 (24hr) Purge Rate: 2 (gal/min)

Total Purge Time: 14 (min.) Total Purge Volume: 28 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 11:25 (24 hr) Time Sampling Stop: 11:30 (24 hr)

<u>AAN3418</u> PLACE FLUIDID LABEL HERE (if applicable)	<u>MSF-MW-16</u> PLACE SITE LABEL HERE	PLACE QA/QC LABEL HERE (if applicable)
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QA/QC Sample: (Circle One) N/A Field Blank Equipment Blank (Field-cleaned) (Lab-cleaned) Time (24hr): 11:01
 Equipment Used: 2" Redi-Flow #1 Collected by: ME

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

Placement Depth of Tubing or Pump Intake: 55'

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: none

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 Preserved By: PB

Preservative Lot #: Sulfuric 120591 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# YSI 600 XCM #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	11:18	16	2	49.01	23.0	303	93.2	7.98	7.4	2.21	
2	11:20	20	"	"	23.0	305	86.1	7.38	7.4	1.58	
3	11:22	24	"	"	23.0	306	86.2	7.40	7.4	1.09	
4	11:24	28			23.0	306	86.4	7.40	7.4	1.10	
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: