FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET
Watershed Monitoring Section
January 2013

SAMPLING AGENCY: FDEP/8034	FLUWID: AAN3425	OWNER:
STATUS RANDOM ID:	STATION NAME: MSFMW2	PROJECT: MSF Nutrient Study
LAND SURFACE ELEV.(LSE): 50.8	CASING MATERIAL: PVC	TOTAL DEPTH: 50
MEASURING POINT ELEV.(MPE): 53.8	CASING DIAMETER: 4"	

All Times Are: (ETZ) or CTZ (circle one) Date/Time On Site: 13:02 8-20-13 Date/Time Off Site: 14:00 8-20-13

Field Sheet Completed By: PP 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)

50 – (29.74 - 3) = 23.26 ft (WCH) DTW - SU = 26.74

Second Reading: 23.26 ft (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)

23.26 X 0.65 X 1.5 = 22.67 (gal.)

M G T
1-16 = 13:28
2-26 = 13:32
3-23 = 13:35

1 Well Purge Volume: 15.119 (gal.) 1/4 Well Purge Volume: 3.77 (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: Redi-Flo 2 #1 Sample Equipment Used: Redi-Flo 2 #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) 22.67 (min.)

Time Purge Begin: 13:12 (24hr) Time Purge Stop: 13:35 (24hr) Purge Rate: 1 (gal/min)

Total Purge Time: 23 (min.) Total Purge Volume: 23 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 13:36 (24 hr) Time Sampling Stop: 13:46 (24 hr)

AAN3425 PLACE FLUWID LABEL HERE (if applicable)	PLACE SITE LABEL HERE	Duplicate #1 PLACE QA/QC LABEL HERE (if applicable)

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

Equipment Used: _____ Collected by: _____

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

Placement Depth of Tubing or Pump Intake: 35'

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: 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: PB

Preservative Lot #s: 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.) Duplicate #1 taken

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	13:28	16	1	29.71	22.6	146	45.7	3.94	8.9	3.83	
2	13:32	20	1	"	22.6	148	45.0	3.90	8.8	4.00	
3	13:35	23	1	"	22.6	150	45.0	3.89	8.8	1.56	
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 (Please PRINT) Mike Eckles

Sampler Signatures: _____ _____

OFFICE USE ONLY

Reviewed for completion by: **Date:**