



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: <u>FDEP-GWM</u>	FLUWID: <u>AAN3413</u>	OWNER: <u>Santa Fe</u>
STATUS RANDOM ID: <u>MSFMW 20</u>	STATION NAME: <u>msfmw 20</u>	PROJECT: <u>Nutrient study</u>
LAND SURFACE ELEV.(LSE): <u>NA</u>	CASING MATERIAL: <u>PVC</u>	TOTAL DEPTH: <u>72.30</u>
MEASURING POINT ELEV.(MPE): <u>NA</u>	CASING DIAMETER: <u>4"</u>	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 5-15-13 / 13:49 Date/Time Off Site: 5-15-13 / 15:01
Field Sheet Completed By: Green WQ Samples Collected By: Wade

POTENTIOMETRIC METHOD

(Stickup is MPE - LSE)

Total Depth - (Depth to Water - Stickup) = Water Column Height (*DTW = N/A if not measurable)	Second Reading
<u>72.30</u> - (<u>32.34</u> - <u>NA</u>) = <u>39.96</u> ft	<u>39.96</u> ft
DTW - SU = _____ (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.)

39.96 72.30 X .65 X 1.5 = 38.96 (gal.)

1 Well Purge Volume: _____ (gal.)

1/4 Well Purge Volume: _____ (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: Submersible Sample Equipment Used: Redi-Flo #4
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) 19.48 (min.)

Time Purge Begin: 14:20 (24hr)

Time Purge Stop: 14:40 (24hr)

Purge Rate: 2 (gal/min)

Total Purge Time: 20 (min.)

Total Purge Volume: 40 (gal.)

(Purge rate X Total purge Time)

Time Sampling Begin: 14:41 (24 hr)

Time Sampling Stop: 14:47 (24 hr)

PLACE
FLUWID LABEL HERE
(if applicable)

PLACE
SITE LABEL HERE

PLACE QA/QC LABEL HERE
(if applicable)

QA/QC Sample: N/A Field Blank Equipment Blank
 (Circle One) (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: NO

Personnel/Visitors On Site: Green/Wade

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: Wade

Preservative Lot #: Sulfuric SA-2363040 Nitric NA-2363050
 (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>12 YSI 600 xLM</u>					Read By: <u>Green</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	<u>14:33</u>	<u>26</u>	<u>2</u>	<u>32.73</u>	<u>22.9</u>	<u>232</u>	<u>4.6</u>	<u>0.39</u>	<u>7.5</u>	<u>5.00</u>	
2	<u>14:37</u>	<u>34</u>	<u>2</u>	<u>32.73</u>	<u>22.9</u>	<u>232</u>	<u>4.5</u>	<u>0.38</u>	<u>7.5</u>	<u>4.43</u>	
3	<u>14:40</u>	<u>20</u>	<u>2</u>	<u>32.73</u>	<u>22.9</u>	<u>232</u>	<u>4.6</u>	<u>0.39</u>	<u>7.5</u>	<u>3.72</u>	
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: Chris Green
 (Please PRINT)

Sampler Signatures: Ch S-

Edgar Wade

OFFICE USE ONLY

Reviewed for completion by:

Date: