

Florida DEP - Ground Water and Springs Protection Section - *Springs Quarterly Monitoring* - Field Sheet

Site: Merritts Mill Pond and Chipola River	Location: NW Florida	Date: 5/11/2011
Samplers: EDGAR WADE, GARY MADDOX		Prepared By: EDGAR WADE

SAMPLING DATA									
SITE	DATE	TIME	TEMP (°C)	p H	Specific Conductivity	D O (mg/L)	D O (%sat)		NOTES
Shangri-La Spring	5/11/2011	13:00	20.94	7.52	268	7.65	85.7		
Twin Caves Spring (Main)	5/11/2011	13:40	21.09	7.24	327	6.73	75.7		
Hole In The Wall Spring (No Flow)	5/11/2011	14:30	20.74	7.02	312	2.65	29.7		No Apparent Flow
All samples taken using Peristaltic Pump									
Unless otherwise noted, all samples taken with GeoPump 2 and size 15 Geotech PP tubing and 0.45 um Geotech high capacity GW filters where applicable									
New PP Tubing and hard tubing is used at each site for each sample event to prevent cross-contamination									

PRESERVATIVES & FILTERS					
ACID	FDEP	LOT #	Expires	FILTERS	LOT #
Sulfuric Acid	X	_091072		Geotech 0.45 um	
Nitric Acid	X	_140090		Other	

YSI SONDE Meter ID #	SN: 99K0596 - Meter 7	D O membrane changed?	Y	N
Batteries changed?	Y	Sp Cond Probe cleaned?	Y	N

CALIBRATION (Pre Sample)					
DATE	5/4/2011	TIME (ETZ)	11:00	LOCATION:	In Lab On Site - X

Dissolved Oxygen		mg/L	% SAT	TEMP °C	Pass/Fail	Sp Cond	Standard	Reading	Pass/Fail	Lot #	Exp. Date
INITIAL	8.73	99.3	21.93	P F	Initial	100	101	P F	2002463	Aug-11	
						1000	1006	P F	2002464	Aug-11	
CALIBRATED	8.74	99.9	21.97	P F	Calibrated	100	100	P F	2002463	Aug-11	
						1000	1000	P F	2002464	Aug-11	
VERIFICATION	8.76	99.9	21.94	P F	Verification	100	99	P F	2002463	Aug-11	
						1000	1001	P F	2002464	Aug-11	
pH	Standard	Reading	TEMP °C	Pass/Fail	Exp. Date	Lot #					
INITIAL	7.00	6.93	21.34	P F	Nov-11	_096106					
	10.00	10.02	21.52	P F							
CALIBRATED	7.00	7.00	21.36	P F	Nov-11	_096106					
	10.00	10.00	21.53	P F							
VERIFICATION	7.00	6.99	21.33	P F	Nov-11	_096106					
	10.00	10.01	21.53	P F							

Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2);

optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SIGNATURE: EDGAR WADE *Edgar Wade*

DATE: 5/11/2011 5/11/2011

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SAMPLING DATA									
SITE	DATE	TIME	TEMP (°C)	pH	Specific Conductivity	D O (mg/L)	D O (%sat)		NOTES

All samples taken using Peristaltic Pump

Unless otherwise noted, all samples taken with GeoPump 2 and size 15 Geotech PP tubing and 0.45 um Geotech high capacity GW filters where applicable

New PP Tubing and hard tubing is used at each site for each sample event to prevent cross-contamination

PRESERVATIVES & FILTERS					
ACID	FDEP	LOT #	Expires	FILTERS	LOT #
Sulfuric Acid	X	_091072		Geotech 0.45 um	
Nitric Acid	X	_140090		Other	

YSI SONDE Meter ID #	SN: 99K0596 - Meter 7	D O membrane changed?	Y ☐ N ☒
Batteries changed?	Y ☐ N ☒	Sp Cond Probe cleaned?	Y ☐ N ☒

CALIBRATION (Post Sample)			
DATE	5/11/2011	TIME (ETZ)	10:00
LOCATION:	In Lab	On Site -	X

Dissolved Oxygen	mg/L	% SAT	TEMP °C	Pass/Fail	Sp Cond	Standard	Reading	Pass/Fail	Lot #	Exp. Date
INITIAL	8.70	99.7	22.17	☒ F	Initial	100	101	☒ F	2002463	Aug-11
						1000	1003	☒ F	2002464	Aug-11
CALIBRATED	8.71	99.9	22.21	☒ F	Calibrated	100	100	☒ F	2002463	Aug-11
						1000	1000	☒ F	2002464	Aug-11
VERIFICATION	8.70	99.8	22.22	☒ F	Verification	100	100	☒ F	2002463	Aug-11
						1000	1001	☒ F	2002464	Aug-11

pH	Standard	Reading	TEMP °C	Pass/Fail	Exp. Date	Lot #
INITIAL	7.00	7.01	22.31	☒ F	Nov-11	_096106
	10.00	10.06	22.47	☒ F	Nov-11	_096382
CALIBRATED	7.00	7.00	22.33	☒ F	Nov-11	_096106
	10.00	10.00	22.50	☒ F	Nov-11	_096382
VERIFICATION	7.00	7.00	22.34	☒ F	Nov-11	_096106
	10.00	10.01	22.51	☒ F	Nov-11	_096382

Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3) pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)	
SIGNATURE: EDGAR WADE	Edgar Wade DATE: 5/11/2011 5/11/2011