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

Site: WAKULLA (MAIN, B-TUNNEL, C-TUNNEL), NATURAL BRIDGE & HORN SPRINGS	Location: Wakulla County, Florida	Date: 3/22/2011
Samplers: EDGAR WADE, GARY MADDOX		Prepared By: EDGAR WADE

SAMPLING DATA									
SITE	DATE	TIME	TEMP (°C)	pH	Specific Conductivity	D O (mg/L)	D O (%sat)		NOTES
WAKULLA B-TUNNEL	3/22/2011	9:50	20.54	7.17	310	1.92			
WAKULLA C-TUNNEL	3/22/2011	10:10	20.49	7.45	311	1.58			
WAKULLA MAIN SPRING	3/22/2011	10:50	20.70	7.50	306	2.13			
NATURAL BRIDGE SPRING	3/22/2011	14:05	21.37	7.52	259	0.76			
HORN SPRING	3/22/2011	15:00	20.07	7.69	265	1.78			

quaterly sampling should go to spring

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 #	QD 03629	D O membrane changed?	Y	N
Batteries changed?	Y	N	Sp Cond Probe cleaned?	Y
				N

CALIBRATION (PRE SAMPLE)				
DATE	3/22/2011	TIME (ETZ)	9:00	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	8.92	99.8	20.81	P F	Initial	1000	973	P F	2002463	Aug-11
						1000	617.57	P F	2002464	Aug-11
CALIBRATED	8.95	100.0	20.81	P F	Calibrated	1000	1000	P F	2002463	Aug-11
						1000	617.85	P F	2002464	Aug-11
VERIFICATION	9.04	99.7	20.22	P F	Verification	1000	909	P F	2002463	Aug-11
						1000	617.70	P F	2002464	Aug-11

pH	Standard	Reading	TEMP °C	Pass/Fail	Exp. Date	Lot #
INITIAL	7.00	6.89	18.08	P F	Nov-11	_096106
	10.00			P F	Nov-11	096382
CALIBRATED	7.00	6.99	18.09	P F	Nov-11	_096106
	10.00			P F	Nov-11	096382
VERIFICATION	7.00	7.01	17.96	P F	Nov-11	_096106
	10.00			P 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: $\pm 5\%$ 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: 3/22/2011	3/22/2011

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

Site: Rhodes Springs Group	Location: Wakulla County, Florida	Date: 3/22/2011
Samplers: EDGAR WADE, GARY MADDOX		Prepared By: EDGAR WADE

SAMPLING DATA									
SITE	DATE	TIME	TEMP (°C)	pH	Specific Conductivity	D O (mg/L)	D O (%sat)		NOTES
Rhodes Spring #1	3/22/2011	15:55	20.18	7.61	261	0.97			
Rhodes Spring #2A	3/22/2011	13:15	20.09	7.55	259	0.65			
Rhodes Spring #2B	3/22/2011	12:45	20.03	7.56	260	0.68			
Rhodes Spring #4	3/22/2011	16:30	20.21	7.59	260	1.32			

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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 #	QD 03629	D O membrane changed?	Y	<u>N</u>
Batteries changed?	Y	<u>N</u>	Sp Cond Probe cleaned?	Y
				<u>N</u>

CALIBRATION (CONTINUING - POST SAMPLE)				
DATE	3/22/2011	TIME (ETZ)	18:00	LOCATION: In Lab On Site - <u>X</u>

Dissolved Oxygen	mg/L	% SAT	TEMP °C	Pass/Fail	Sp Cond	Standard	Reading	Pass/Fail	Lot #	Exp. Date
INITIAL	9.81	99.3	15.78	<u>P</u> F	Initial	1000	15.73	<u>P</u> F	2002463	Aug-11
CALIBRATED	9.92	100.0	15.76	<u>P</u> F	Calibrated	1000	15.75	<u>P</u> F	2002464	Aug-11
VERIFICATION	9.92	99.1	15.61	<u>P</u> F	Verification	1000	15.76	<u>P</u> F	2002464	Aug-11

pH	Standard	Reading	TEMP °C	Pass/Fail	Exp. Date	Lot #
INITIAL	7.00	7.02	15.60	<u>P</u> F	Nov-11	_096106
CALIBRATED	7.00	6.99	15.60	<u>P</u> F	Nov-11	_096106
VERIFICATION	7.00	7.00	15.61	<u>P</u> F	Nov-11	_096106

. 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)	
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DATE: 3/22/2011	3/22/2011