



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Brothers River

Date: 11/29/2016
(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0013

WBID: 3751

Latitude: 29.7663969

(Decimal Degrees)

County: Gulf

ORG ID: 21FLTLHR

Longitude: 85.0778919

(Decimal Degrees)

Receiving Body of Water: Apalachicola River

RQ-2018- 1126-69

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment						
Son Wooly Ben Harden						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole				
											☐ Carboy	☒ Syringe					
											☐ Dipper	☐ Other					
Depth Measured with						Equipment ID					SONAR						
											Collection Method						
						☐ Wading	☐ From Shore	☐ Other	☐ Canoe/Kayak	☐ Electric Motor	☒ Gasoline Motor						
Water Level: Dry/ Pooled/ Low / Normal / <u>High</u> / Flooded											Meter ID# 153489		Matrix: Fresh / Marine / DI				
Photos: Yes / No											Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/ NA		Tide Times: High / Low		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (umhos/cm)	Temp. (C°)							
EST	1025	5.9	0.3	1.4	7.90	75.0	6.26	0.05	112	13.0							
CEN	1030		5.4		7.77	73.7	6.46	0.05	112	13.0							
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:																	
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:																	
Parameter Suite		Parameter Methods				Preservation		Lot#		Expiration		pH Check					
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☐ H2SO4		6274050				☒ <2					
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3						☐ <2					
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um Filter				☒ Ice											
Chlorophyll		☒ CHLSUITE-W				☒ Ice											
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice											
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice											
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin											
Periphyton		☐ ALGAE-ID				☐ Ice											
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice											
Molecular		☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice											
Tracers		☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice											
Pesticides		☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Ice ☐ Other											

Notes:

A-b

Place Label Here

Signature:

Date: 11/29/16

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: woods

Project ID: SMP

Collected By: woods/HardenSampling Agency: 8034

Location	Brothers River		Collection (comp begin or grab)	Time	1025	Composite end	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	7.90	Total Res. Chlorine (mg/L)	A
WIN/STORET #	G2TLHR0013		Temp (C)	pH	6.28	Sample Depth	112
Latitude	dd dms	Longitude	Salinity (ppt)	Comments			
Location	Saul Creek		Collection (comp begin or grab)	Time	1050	Composite end	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	7.86	Total Res. Chlorine (mg/L)	A
WIN/STORET #	G2TLHR0014		Temp (C)	pH	6.74	Sample Depth	134
Latitude	dd dms	Longitude	Salinity (ppt)	Comments			
Location	Double Bayou soon Lake Wimico		Collection (comp begin or grab)	Time	1115	Composite end	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	6.22	Total Res. Chlorine (mg/L)	A
WIN/STORET #	G2TLHR0003		Temp (C)	pH	6.66	Sample Depth	260
Latitude	dd dms	Longitude	Salinity (ppt)	Comments			
Location	100m upstream from Horseshoe Creek from intercoastal lake Wimico		Collection (comp begin or grab)	Time		Composite end	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	8.80	Total Res. Chlorine (mg/L)	A
WIN/STORET #	G2TLHR0033		Temp (C)	pH	6.86	Sample Depth	225
Latitude	dd dms	Longitude	Salinity (ppt)	Comments			

Relinquished By: <u>JW</u>	Date/Time: <u>11/29/18 1451</u>	Shipping Method: <u>HD</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>[Signature]</u>	Date/Time: <u>11/29/18 1452</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ECOLI-18QT						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER+ICE	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						

46274050

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

153484

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Harden	11/29/18	0750	19.8	7621	9.15	9.15	100.3		1.034	P/F	L/F
ICV	"	"	0804	20.2	7621	8.98	9.06	99.1			P/F	L/F
CCV	"	"	1451	16.3	7602	9.81	9.89	100.9			P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Harden	11/29/18	0752	180621C	07/19	1000	1000	P/F	L/F
ICV	"	"	0754	1805F81	05/20	100	101.1	P/F	L/F
CCV	"	"	1453	180621C	07/19	1000	996	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Harden	11/29/18	0756	180621E	01/20	7.03	19.0	7.03	-18.7	P/F	L/F
Calibr.	"	"	0758	180621D	07/19	4.00	18.8	4.00	157.3	P/F	L/F
Calibr.	"	"	0800	180408D	10/19	10.00	18.6	10.00	-174.5	P/F	L/F
ICV	"	"	0802	"	"	10.00	18.4	10.00	-174.0	P/F	L/F
CCV	"	"	1455	180621D	07/19	4.00	18.7	4.14	157.6	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 156.1, slope from 4 to 7 176.0 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Ben Harden	11/29/18	0749	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

RQ-

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.											P / F	L / F
ICV											P / F	L / F
CCV											P / F	L / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.								P / F	L / F
ICV								P / F	L / F
CCV								P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										P / F	L / F
CCV										P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: