

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: 154177

RQ: 2019-07-06-50

Project: 2019 SMP

- 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 07/19

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	07/25/19	0801	20.2	752.6	9.0	9.03	99.7	09889	0	P / F	L / F
ICV	"	"	0820	20.0	752.7	9.1	9.04	99.5			P / F	L / F
CCV	"	"	1531	28.7	757.7	7.73	7.81	101.0			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	07/25/19	0804	190613F	06/20	1000	1001.6	P / F	L / F
ICV	"	"	0805	2808884	07/20	100.0	101.6	P / F	L / F
CCV	"	"	1532	190613F	06/20	1000	1002	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	07/25/19	0814	190621F	01/20	7.02	21.3	7.01	-13.5	P / F	L / F
Calibr.	"	"	0815	190684A	12/20	4.00	19.8	4.00	161.6	P / F	L / F
Calibr.	"	"	0818	190621F	01/20	10.07	19.3	10.07	-180.9	P / F	L / F
ICV	"	"	0819	"	"	10.07	19.7	10.07	-181.6	P / F	L / F
CCV	"	"	1536	190684A	12/20	4.00	20.3	4.11	157.9	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 10 167.4, slope from 4 to 7 175.1 (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: 07/19

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	07/25/19	0802	0.272	0.272	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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

January 2019

WIN Station Name: Camp Branch @ US90

Date: 07/25/2019
(mm/dd/yyyy)

WIN/ Field ID: G3TLHR0005

WBID: 251

Latitude: 30.7828

(Decimal Degrees)

County: Holmes

ORG ID: 21FLTLHR

Longitude: 85.6481

(Decimal Degrees)

Receiving Body of Water: Open Creek

RQ: 2019-07-08-50

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Hardin San Woods				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with			
Equipment ID				Collection Method								
				☒ Wading				☐ Canoe/Kayak				
				☒ From Shore				☐ Electric Motor				
				☐ Other				☐ Gasoline Motor				
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded				Meter ID# 154177				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>				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 (PPT)	Sp COND (µmhos/cm)	Temp. (C°)		
EST	1115	0.5	0.25	0.5	6.93	83.0	7.32	0.09	194.5	24.4		
CEN				(S)								
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		SA90/0030	07/10/20	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <2		
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm 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-BR-IC / 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice						
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice						
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice						
Notes:												
G3TLHR0005 Place Label Here Camp Branch @ US90												
Signature:								Date: 07/25/2019				

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

07-26-19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: Woods/Harden

Project ID: SMP

Collected By: Woods/Harden

Sampling Agency: 8034

Field/WIN ID →	 G3TLHR0005		☐ Comp Grab		Collection (comp begin or grab)	Time	☒ Eastern Central		Composite end Date	Bottle Group(s) (See pg 2)	
Location ↓	 CAMP BRANCH @ US90 Longitude		☐ Matrix (type, e.g., Salt, Fresh, etc)		Time	Diss. Oxygen		☐ mg/L Total Res. Chlorine		Time	
Latitude	☐ dd ☐ dms		Temp (C)		24.4	pH		☐ ft ☒ m		Sp. Conductance (umho/cm) 194.5	
Location	☐ dd ☐ dms		Salinity (ppt)		0.09	Comments					
Field ID	☐ Comp Grab		Collection (comp begin or grab)	Time	☐ Eastern Central		Composite end Date	Bottle Group(s)			
WIN/STORET #	☐ Matrix (type, e.g., Salt, Fresh, etc)		Time	Diss. Oxygen		☐ mg/L Total Res. Chlorine		Time			
Latitude	☐ dd ☐ dms		Temp (C)			pH		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments						
Field ID	☐ Comp Grab		Collection (comp begin or grab)	Time	☐ Eastern Central		Composite end Date	Bottle Group(s)			
WIN/STORET #	☐ Matrix (type, e.g., Salt, Fresh, etc)		Time	Diss. Oxygen		☐ mg/L Total Res. Chlorine		Time			
Latitude	☐ dd ☐ dms		Temp (C)			pH		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments						
Field ID	☐ Comp Grab		Collection (comp begin or grab)	Time	☐ Eastern Central		Composite end Date	Bottle Group(s)			
WIN/STORET #	☐ Matrix (type, e.g., Salt, Fresh, etc)		Time	Diss. Oxygen		☐ mg/L Total Res. Chlorine		Time			
Latitude	☐ dd ☐ dms		Temp (C)			pH		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments						
Field ID	☐ Comp Grab		Collection (comp begin or grab)	Time	☐ Eastern Central		Composite end Date	Bottle Group(s)			
WIN/STORET #	☐ Matrix (type, e.g., Salt, Fresh, etc)		Time	Diss. Oxygen		☐ mg/L Total Res. Chlorine		Time			
Latitude	☐ dd ☐ dms		Temp (C)			pH		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms		Salinity (ppt)		Comments						

Relinquished By: Woods/Harden	Date/Time: 07/25/19	Shipping Method: Hand Delivered	Number of Coolers Shipped:	Received By:	Date/Time:
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Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	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	1
	CHLSUITE-W						

Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLL-18QT						

Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	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	1
	W-PO4-F						

Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ECOLL-18QT						

Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						

Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
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