

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: 2019-08-12-35

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	09/12/19	0756	22.0	759.0	8.7	8.74	100.0		0.9948	P / F	L / F
ICV	"	"	0814	20.6	759.1	9.1	9.05	100.0			P / F	L / F
CCV	"	"	1443	22.1	758.4	8.7	8.76	100.4			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	09/12/19	0759	190618F	06/20	1000	1000	P / F	L / F
ICV	"	"	0801	2908C81	08/21	100.0	102.1	P / F	L / F
CCV	"	"	1441	190618F	06/20	1000	999	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	09/12/19	0803	190618B	12/20	7.02	20.5	7.02	-21.5	P / F	L / F
Calibr.	"	"	0807	190618A	12/20	4.00	19.5	4.00	157.3	P / F	L / F
Calibr.	"	"	0810	190618C	12/20	10.08	19.5	10.07	-185.8	P / F	L / F
ICV	"	"	0812	"	"	10.08	19.3	10.08	-186.5	P / F	L / F
CCV	"	"	1442	190618A	12/20	4.00	22.2	4.04	156.1	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 10 164.3, slope from 4 to 7 78.8 (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	09/12/19	0752	0.000	0.000	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

January 2019

Data Qualified?

Yes / No

WIN Station Name:

Waccasassa River @ Otter Creek

Date:

09/12/19
(mm/dd/yyyy)

WIN ID/ Field ID

GITL#R0101

WBID:

3699A

Latitude:

29.19866

(Decimal Degrees)

County:

ORG ID:

Longitude:

-82.722

(Decimal Degrees)

Receiving Body of Water:

RQ - 2019-08-12-35

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation Check	Duplicate Collection	Blank Collection	Sampling Equipment		
Ben Hayden								☒ Sample Container	☐ Van Dorn	☐ Pole
Jade Burtchett								☐ 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		

Field Sample

(Bracket Sample Time)

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	1125	2.7	0.3	0.5	4.82	59.8	7.12	0.12	244.9	26.2
CEN	1128		2.2		4.68	57.4	7.11	0.11	242.8	25.7

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	SA9129100	05/01/20	☒ <2		
Metals	☒ W-ICPMS ☒ W-ICP			☒ Ice ☒ HNO3	NA9129070	05/01/20	☒ <2		
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter			☒ Ice					
Chlorophyll	☒ CHL SUITE-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-E3821-MS ☐ W-E32821-DI			☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-MS ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-DI ☐ W-CARB-AA			☐ Ice					
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C			☐ Ice					

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Time: _____		Field ID: _____ (WIN ID_DUP)	
WIN DMT Activity ID: _____					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E-3821-MS ☐ W-CARB-AA	☐ Ice			

Blank

Time Zone: EST CEN		Time: _____		Field ID: _____ (Blank Type_DDMMYYYY)	
DI Source: _____		Location: _____			
☐ Field Blank	☐ Equipment Blank	☐ Field Cleaned Equipment Blank	Equipment ID: _____		
WIN DMT Blank Batch ID: _____					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ 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			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-MS ☐ W-CARB-AA	☐ Other _____			
Microbiology	☐ E.coli ☐ F. Coliform ☐ Entrococci				
Notes:			Place Label Here		
Signature: 				Date: 09/12/2019	

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Scan/Save Field Sheets _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: Burgett/Haden

Project ID: SMP

Collected By: Burgett/HadenSampling Agency: 8034

Field/WIN ID →			G1TLHR0101	
Location ↓	Waccasassa River @ Otter Creek		A	
Latitude	dd	Longitude	dd	dms
Location	Waccasassa River @ Otter Creek			
Field ID	Collection (comp begin or grab)		Composite end	
WIN/STORET #	Comp	Date	mg/L	Total Res. Chlorine
Latitude	dd	Longitude	dd	dms
Location	Waccasassa River @ Otter Creek			
Field ID	Collection (comp begin or grab)		Composite end	
WIN/STORET #	Comp	Date	mg/L	Total Res. Chlorine
Latitude	dd	Longitude	dd	dms
Location	Waccasassa River @ Otter Creek			
Field ID	Collection (comp begin or grab)		Composite end	
WIN/STORET #	Comp	Date	mg/L	Total Res. Chlorine
Latitude	dd	Longitude	dd	dms
Location	Waccasassa River @ Otter Creek			

Relinquished By: <u>Burgett/Haden</u>	Date/Time: <u>9.12.19</u>	Received By: <u>AK</u>	Date/Time: <u>17.32</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 5	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: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOL-18QT						
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	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: 5	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 3	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						