

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:

517c6

RQ-

2021-05-24-20

Project:

Tolomato CM

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

5/17/21

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.	517c6	5/24/21	737	23.5	766.1	8.6	8.6	100.8	✓	1.02	P/F	L/F
ICV	Brian Davis		739	23.6	766.2	8.6	8.55	100.9	✓	1.02	P/F	L/F
CCV	J. Lee		1243	23.4	766.0	8.6	8.50	99.9	✓	1.02	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	5/24/21	742	201222B	1/22	1000	1000	P/F	L/F
ICV			744	210426E	6/22	50,000	49862	P/F	L/F
CCV	J. Lee		1252	210426D	5/22	20,000	19927	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.	Brian Davis	5/24/21	748	2010F27	10/22	7.00	24.1	7.01	-21.6	P/F	L/F
Calibr.			750	2010C31	9/22	4.00	24.1	4.00	156.1	P/F	L/F
Calibr.			754	2012797	5/22	10.01	24.0	10.01	-194.3	P/F	L/F
ICV			757	2010F27	10/22	7.00	24.1	7.06	-22.6	P/F	L/F
CCV	J. Lee		1256	2012797	5/22	10.00	24.9	10.00	-195.9	P/F	L/F
CCV								10.01		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	Brian Davis	5/24/21	759	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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 5/24/2021
Customer: NE-DIST
RQ: RQ-2021-05-24-20

Collected By: Brian Davis,
Sampling Agency: FDEP
Project ID: SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 1

Delivery Method: FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
Place Label Here	
WIN ID/Field ID:	
	G5NE0601
Location:	Tolomato River 800 m N of Bridge

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/24/2021
1600EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Tolomato River 800 m N of Bridge **Date:** 5/24/2021
WIN/Field ID: G5NE0601 **WBID:** 236311 **ENR:** ENRT1 **Latitude:** 30.1372
County: ST. JOHNS **Org ID:** 21FLA **Longitude:** -81.39
Receiving Body of Water: Upper East Coast **RQ:** 2021-05-24-20

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒ Brian Davis		x	x	x	x	x
☐						
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Sonar	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☒ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# STITCH					
Photos: No		Flow: FLOW		Tide: SLACK		Tide Times: High: 530 Low: 1140					
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:											
SBIO ID Numbers:											
Notes:											

Duplicate Sample

Time Zone: EST	Time: _____	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID: _____			

Blank

Time Zone: _____	Time: _____	Field ID: _____	(Blank Type_DDDMMYY)
DI Source: _____	Location: _____		
DI Type: _____	Equipment ID: _____		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: _____ WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets BD 05/24/21 Migrate Data to WIN: _____ Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-05-24-20

Customer: WQAP

Project ID: SMP

Collected By: Brian Davis

Field Report Prepared By: Brian Davis

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G5NE0601

Location: Tolomato River 800 m N of Bridge

Comments: Microbiology sample(s) submitted to contract laboratory

Matrix: Marine

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
5/24/2021	935 EST	5.38	78.1	26.1	7.28	0.3	1 ☐ VOB (S)	2.2	44249	28.53
	938 EST	4.67	67.4	25.9	7.28	1.7	Central Lab please use top row for login purposes		44760	28.91
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A
		Lot #	SA0353110		Exp:	01/11/22				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A
		Lot #	NA0038050		Exp:	2/7/21				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #	R9BA86875							
		Syringe Lot #								
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☐ Ice				
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	A
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☒ Enterococci ☒ Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice				
Pesticides (BG-500ML) (BG-1L)		☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PC-L-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN				☐ Ice				
Phytoplankton/Periphyton		☐ DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C ☐ DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV ☐				☐ Ice				
Name: Brian Davis						Signature:			Date: 05/24/2021	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

CHAIN OF CUSTODY / LABORATORY ANALYSIS REPORT FORM

SR #	At S Contact: Mandy Sullivan
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9143 Phillips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: Tolomato River 800 m N of Bridge

WBID: 236311

STORET Station ID: G5NE0601

ORG ID: 21FLA

Field ID: _____ County: St John's

RQ - 2021-05-17-20

Meter ID#: <u>ELSA</u>			
Pre-Deployment Setup			
Date: <u>5/17/21</u>		Performed by: <u>Brian Pous</u>	
Parameters Recorded: ☒ Date ☒ Time ☒ Temp.(C) ☒ Sp. Cond. ☒ DOSAT ☒ DO (mg/L) ☒ pH ☒ Depth			
Sampling Interval (min): <u>15</u>	Free Memory (days):	Expected Battery Life: <u>2.96V</u>	Programmed Duration: <u>7 days/305</u>
Sonde Filename: <u>TRO5172021</u>			Reset Clock? (Y or N) <u>N</u>
Programmed Start Date/Time: <u>5/17/21</u> (mm/dd/yyyy) <u>13:00:00</u> (hh:mm:ss)		(Cent. / East) <u>Cent.</u>	Wipers Park Correctly? <u>Y</u>
Programmed End Date/Time: _____ (mm/dd/yyyy)		(hh:mm:ss) (Cent. / East)	Calibration Date <u>5/17/21</u>

Deployment			
Date: _____		Time Into Water: <u>1150</u>	Time Zone: <u>Cent.</u> / <u>East</u>
Deployed Sonde Latitude: _____	Deployed By: (print all staff present) <u>BD, KM</u>		
Deployed Sonde Longitude: _____			
Notes: (how to get to, landmarks, site considerations & concerns, etc.)			
Photos: <u>Yes</u> / No			

Retrieval			
Date: <u>5/24/21</u>		Time Out Of Water: <u>1005</u>	Time Zone: <u>Cent.</u> / <u>East</u>
Mounting left or removed? <u>Removed</u>	Retrieved By: <u>BD/JL</u>		
Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.)			

Post-Deployment			
Date: <u>5/24/21</u>		Performed by: <u>BD</u>	
Data File Downloaded? <u>Yes</u> / No	Archived Filename: <u>Datafile-05242021</u>		
Meter Verification Date: <u>5/24/21</u>			

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

Holdly "X" this box if there are qualified data on this page

Meter ID: E.L.S.A.

RQ: 2021-05-24-21

Project: Tolomato CM

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.	Brian Davis	5/17/21	840	24.1	764.2	8.4	—	100.6	—	1.01	P/F	L/F
ICV	↓	↓	842	24.2	764.2	8.4	8.44	100.7	—	1.01	P/F	L/F
CCV	↓	5/24/21	1523	24.6	762.8	8.3	8.24	99.1	—	1.01	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.	Brian Davis	5/17/21	844	210426E	5/22	50,000	50,000	P/F	L/F
ICV	↓	↓	847	210426D	5/22	20,000	19,977	P/F	L/F
CCV	↓	5/24/21	1525	210426E	5/22	50,000	49930	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.	Brian Davis	5/17/21	850	2010F27	10/22	7.00	24.6	7.00	-29.7	P/F	L/F
Calibr.	↓	↓	854	2010C31	9/22	4.00	24.7	4.00	146.7	P/F	L/F
Calibr.	↓	↓	856	2012797	5/22	10.01	24.7	10.00	-186.8	P/F	L/F
ICV	↓	↓	900	2010F27	10/22	7.00	24.7	7.07	-30.4	P/F	L/F
CCV	↓	5/24/21	1532	2103F53	9/22	10.00	24.6	9.91	-193.2	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	Not Calibrated					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: