

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: Pro DSS Bruce

RQ: 2021-05-17-16

Project: SMP Pellicer +

Tribs

- 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.	<u>K McDonald</u>	<u>6/3/21</u>	<u>0728</u>	<u>23.2</u>	<u>761.9</u>	<u>8.6</u>	<u>-</u>	<u>100.2</u>	<u>-</u>	<u>1.039</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0729</u>	<u>23.2</u>	<u>761.9</u>	<u>8.6</u>	<u>8.58</u>	<u>100.4</u>	<u>-</u>	<u>1.039</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>B Davis</u>	<u>↓</u>	<u>1623</u>	<u>21.3</u>	<u>761.1</u>	<u>8.9</u>	<u>8.84</u>	<u>99.7</u>	<u>/</u>	<u>1.04</u>	<u>P/F</u>	<u>L/F</u>
CCV											<u>P/F</u>	<u>L/F</u>

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.	<u>K McDonald</u>	<u>6/3/21</u>	<u>0731</u>	<u>201222B</u>	<u>01/2022</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0735</u>	<u>200902C</u>	<u>09/2021</u>	<u>1413</u>	<u>1403</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>B Davis</u>	<u>↓</u>	<u>1626</u>	<u>201222A</u>	<u>1/22</u>	<u>100</u>	<u>102.6</u>	<u>P/F</u>	<u>L/F</u>
CCV								<u>P/F</u>	<u>L/F</u>

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.	<u>K McDonald</u>	<u>6/3/21</u>	<u>0739</u>	<u>2010F27</u>	<u>10/2022</u>	<u>7.00</u>	<u>23.6</u>	<u>7.00</u>	<u>-24.0</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>0741</u>	<u>2103G59</u>	<u>03/2023</u>	<u>4.00</u>	<u>23.6</u>	<u>4.00</u>	<u>145.0</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>0745</u>	<u>2103F53</u>	<u>09/2022</u>	<u>10.02</u>	<u>23.2</u>	<u>10.02</u>	<u>-189.1</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>0749</u>	<u>2103G59</u>	<u>03/2023</u>	<u>4.00</u>	<u>23.6</u>	<u>4.00</u>	<u>145.0</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>B Davis</u>	<u>↓</u>	<u>1627</u>	<u>2010F27</u>	<u>10/22</u>	<u>7.01</u>	<u>22.2</u>	<u>7.01</u>	<u>-23.0</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1629</u>	<u>2103F53</u>	<u>9/22</u>	<u>10.02</u>	<u>22.3</u>	<u>10.03</u>	<u>-190.5</u>	<u>P/F</u>	<u>L/F</u>

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

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: 5/17/21

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	<u>K McDonald</u>	<u>0750</u>	<u>6/3/21</u>	<u>0.000</u>	<u>000</u>	<u>P/F</u>	<u>L/F</u>

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

COMMENTS:

Also applies to RQ-2021-05-17-37

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: <u>6/3/2021</u> Customer: <u>NE-DIST</u> RQ: <u>RQ-2021-05-17-16</u>	Collected By: <u>Kelly McDonald, Brian Davis</u> Sampling Agency: <u>FDEP</u> Project ID: <u>SMP</u>
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PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

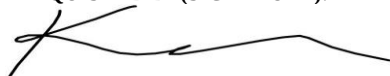
Number of Coolers Shipped: 2

Delivery Method: FedEx

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

Site Location	Field ID/WIN ID
Stevens Branch East Branch at CR204	 G5NE0600
STEVENS BRANCH S OF PELICER CEMETERY OFF CR 204	 27010070
PRINGLE BR UNNAMED DIRT RD 0.5MI S DAVE BR	 27010203
PELLICER CREEK above Schoolhouse Br	 G5NE0598
SchoolHouse Branch at RR tracks	 G5NE0599
Cracker Branch @ Pellicer Creek campground	 G5NE0582
CRACKER BRANCH 1.3MI N CR 204	 27010063

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 6/3/2021
1600EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:	Rec'd/Inspected Date:
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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: STEVENS BRANCH S OF PELICER CEMETERY OFF CR 204 **Date:** 6/3/2021
WIN/Field ID: 27010070 **WBID:** 2551A **ENR:** - **Latitude:** 29.6516
County: FLAGLER **Org ID:** 21FLA **Longitude:** -81.32
Receiving Body of Water: Upper East Coast **RQ:** 2021-05-17-16

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

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
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# Pro DSS BRUCE					
Photos: NO		Flow: FLOW		Tide:		Tide Times: High: Low:					
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:** BD 07/07/2021
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets _____ **Migrate Data to WIN:** JP 7/9/2021 **Verify Data In WIN:** _____
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-05-17-16

Customer: WQAP

Project ID: SMP

Collected By: Kelly McDonald, Brian Davis

Field Report Prepared By: Kelly McDonald

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



27010070

Location: STEVENS BRANCH S OF PELICER
CEMETERY OFF CR 204

Comments:

Matrix: Fresh

(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)
6/3/2021	1100 EST	5.22	61.5	23.5	7.34	0.06	0.132 ☒ VOB (S)	0.132	423	0.2
	EST						Central Lab please use top row for login purposes			

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 Lot # Sa0293040 Exp: 10.19.21	☒ Ice ☒ H2SO4*	☒ <2	1	B
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # R0nb29490 Syringe Lot #	☒ Ice		1	B
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	B
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
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	B
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-PCL-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:
Kelly McDonald
Brian Davis

Signature:

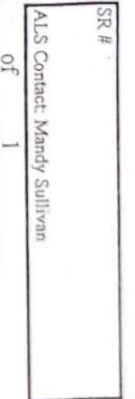
Kelly A. McDonald

Date:

6/3/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



ATC Contact: **Mandy Sullivan**

[illegible]