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.	K McDonald	6/3/21	0728	23.2	761.9	8.6	-	100.2	-	1.039	(P) / F	(L) / F
ICV	↓	↓	0729	23.2	761.9	8.6	8.58	100.4	-	1.039	(P) / F	(L) / F
CCV	B Davis		1623	21.3	761.1	8.9	8.84	99.7	/	1.04	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	K McDonald	6/3/21	0731	201222B	01/2022	1000	1000	(P) / F	(L) / F
ICV	↓	↓	0735	200902C	09/2021	1413	1403	(P) / F	(L) / F
CCV	B Davis		1626	201222A	1/22	100	102.6	P / F	L / F
CCV								P / F	L / F

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

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 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: 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	K McDonald	0750	6/3/21	0.000	000	(P) / F	(L) / F

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

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date:	6/3/2021	**Collected By:**	Kelly McDonald, Brian Davis
Customer:	NE-DIST	**Sampling Agency:**	FDEP
RQ:	RQ-2021-05-17-16	**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: 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**:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End of Day CCV [Yes] / No

WIN Station Name: PRINGLE BR UNNAMED DIRT RD 0.5MI S DAVE BR **Date:** 6/3/2021

WIN/Field ID: 27010203 **WBID:** 2577 **ENR:** - **Latitude:** 29.6327

County: FLAGLER **Org ID:** 21FLA **Longitude:** -81.31

Receiving Body of Water: Upper East Coast **RQ-** 2021-05-17-16

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
[x] Kelly McDonald		x		x	x
[x] Brian Davis	x		x		
[ ]					
[ ]					

Sampling Equipment

- [x] Sample Container
- [ ] Dipper
- [ ] Syringe
- [ ] Carboy
- [ ] Van Dorn
- [x] Pole

Depth measured with: Meter

Secchi Equipment ID:

Collection Method

- [ ] **Wading**
- [x] **From Shore**
- [ ] **Other** _____
- [ ] **Canoe/Kayak**
- [ ] **Electric Motor**
- [ ] **Gasoline Motor**

Water Level: [x] Normal [ ] Low [ ] High [ ] Dry [ ] Pooled [ ] Flooded

Meter ID# PRO DSS BRUCE

Photos: NO **Flow:** FLOW **Tide:**

Tide Times: High: Low:

Biological Samples Collected: [x] 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_DDMMYYYY)

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: (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** BD 07/07/2021 (Initials/Date)

Scan/Save Field Sheets (Initials/Date) **Migrate Data to WIN:** Jp 7/9/2021 (Initials/Date) **Verify Data In WIN:** (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: 27010203

Location: PRINGLE BR UNNAMED DIRT RD 0.5MI S DAVE BR

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 (PPTh)
6/3/2021	1135 EST	5.03	59.1	23.5	7.16	0.1	0.2 ☒ VOB (S)	0.2	296.1	0.14
							Central Lab please use top row for login purposes			
	EST									

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 ☒ $H2SO_4$*	☒ <2	1	A
	Lot #	SA0293040	**Exp:**	10/19/21			
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD			☐ Ice ☐ HNO_3*	☐ <2		
	Lot #		**Exp:**				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter			☒ Ice		1	A
	Filter Lot #	R0NBxxx					
	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		1	A
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	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		1	A
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

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

SR #

ALS Contact: Mandy Sullivan

Client Name	Project Number
FDEP-NE ROC	RQ-2021- 05-17-16
Report To	**Report CC**
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	**FAX #**
904-256-1700	
Sampler's Signature	**Sampler's Printed Name**
Kelly A McDonald	Kelly A McDonald

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterococci	Preservative	8	8	REMARKS
G5NE0600		6/3	1030	SW	1	X					Fresh
27010070			1100		1	X					
27010203			1135		1	X					
G5NE0599			1330		1	X					
G5NE0598			1315		1	X					
G5NE0582			1415		1	X					
27010063			1430		1	X					

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4; 8. ICE

Special Instructions/Comments: **Email Report to: Dep-Overflowmicro@dep.state.fl.us**

1.4

TURNAROUND REQUIREMENTS

___ RUSH (SURCHARGES APPLY)

X STANDARD

REQUESTED FAX DATE
N/A

REQUESTED REPORT DATE
N/A

REPORT REQUIREMENTS

___ I. Results Only

___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

Edata ___ Yes ___ No

INVOICE INFORMATION

P.O. # B10739

Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Kelly A McDonald	Signature: Chewelgard	Signature	Signature	Signature	Signature
Printed Name: Kelly A McDonald	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP NE ROC	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 6/3/21 1538	Date/Time: 6/3/21 1539	Date/Time	Date/Time	Date/Time	Date/Time