

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:

Stitch

RQ:

2019-10-20

Project:

Bisfish Lake C/M

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	10/14/19	820	23.1	7589	8.6	8.6	99.9	/	/	P/F	L/F
ICV			821	23.1	7591	8.6	8.55	99.9	/	/	P/F	L/F
CCV	Kalmbacher	10/14/2019	1535	23.8	757	8.4	8.48	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.	Brian Davis	10/14/19	822	190711B	7/20	1000	1000	P/F	L/F
ICV			823	719820	12/19	24,820	24930	P/F	L/F
CCV	Kalmbacher	10/14/2019	1538	19011B	7/2020	1,000	1,000	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	10/14/19	827			7.0	24.3	7.01	-6.0	P/F	L/F
Calibr.			830			4.0	24.4	4.0	174.8	P/F	L/F
Calibr.			832			10.01	24.3	10.01	-178.4	P/F	L/F
ICV			835			7.0	24.3	7.11	-93	P/F	L/F
CCV	Kalmbacher	10-14-2019	1545			10.0	24.4	9.97	-172	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	Brian Davis	10/14/19	834	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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: BIG FISHWEIR Creek at End of Merrimac Ave

Date: 10-14-2019
(mm/dd/yyyy)

WIN/ Field ID: G2NE1175

WBID: 2280B

Latitude: 30.290400

(Decimal Degrees)

County: Duval

ORG ID: 21 FLA

Longitude: -81.717810

(Decimal Degrees)

Receiving Body of Water: LSJR

RQ-2019-10-07-20

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
B. Davis			X	X	X	
A. Kalmbacher		X		X		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>meter</u>		
Equipment ID <u>Ortho EA 7</u>		
Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / <u>High</u> / Flooded	Meter ID# <u>YSI Pro DSS Stach</u>	Matrix: Fresh / <u>Marine</u> / DI
Photos: Yes / <u>No</u>	Flow: No Flow / Intestinal / <u>Flowing</u> NA	Tide: Rising / <u>Falling</u> / 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°)
<u>EST</u>	<u>1415</u>	<u>1.61</u>	<u>0.3</u>	<u>1.1</u>	<u>2.57</u>	<u>32</u>	<u>7.23</u>	<u>3.21</u>	<u>5938</u>	<u>25.6</u>
CEN										

Biological Samples Collected: None 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	<u>SA9129100</u>	<u>5/2020</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>NA9099030</u>	<u>4/2020</u>	☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>R9B86875</u>		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-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:

WIN / Field ID:



G2NE1175

Big Fishweir Creek at
end of Merrimac Ave.

Signature: A. Kalmbacher

Date: 10-14-2019

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 Migrate Data to WIN: Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SMP CONTINUOUS MONITORING SHEET

PAGE ____ OF ____

August 2017

Data Qualified?
Yes / No

STORET Station Name: BIG FISHWEIR Creek at End of Merrimac Ave WBID: 2280B
STORET Station ID: G2NE1175 ORG ID: 21FLA
Field ID: _____ County: Duval RQ - 2019-10-07-20

Meter ID# <u>Moo 3AD</u>			
Pre-Deployment Setup			
Date: <u>9/30/19</u>		Performed by: <u>Brian Davis</u>	
Parameters Recorded: ☒ Date ☒ Time ☒ Temp. (C) ☒ Sp. Cond. ☒ DOSAT ☒ DO (mg/L) ☐ pH ☒ Depth			
Sampling Interval (min): <u>15</u>	Free Memory (days): <u>45 9</u>	Expected Battery Life: <u>161</u>	Programmed Duration: <u>365/7 days</u>
Sonde Filename: <u>BFO93019</u>			Reset Clock? (Y or N) <u>N</u>
Programmed Start Date/Time: <u>9/30/19</u> (mm/dd/yyyy) <u>1100</u> (hh:mm:ss) (Cent. 1 <u>East</u>)		Wipers Park Correctly? <u>Y</u>	
Programmed End Date/Time: <u>10/7/19</u> (mm/dd/yyyy) <u>1100</u> (hh:mm:ss) (Cent. 1 <u>East</u>)		Calibration Date <u>9/30/19</u>	

Deployment			
Date: <u>9/30/19</u>		Time Into Water: <u>1030</u>	
Time Zone: Cent. 1 <u>East</u>			
Deployed Sonde Latitude: <u>30.290400</u>	Deployed By: <u>BT</u>		(print all staff present) <u>KA</u>
Deployed Sonde Longitude: <u>-81.717810</u>			
Notes: (how to get to, landmarks, site considerations & concerns, etc.) <u>It was a nice day.</u>			
Photos: Yes ☐ No ☒			

Retrieval			
Date: <u>10-14-2019</u>		Time Out Of Water: <u>1415</u>	
Time Zone: Cent. 1 <u>East</u>			
Mounting left or removed? <u>Removed.</u>	Retrieved By: <u>BD, A/c</u>		
Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.) <u>Very High Tide.</u>			

Post-Deployment			
Date: <u>10/14/19</u>		Performed by: <u>B Davis</u>	
Data File Downloaded? <u>Yes</u> ☒ No ☐	Archived Filename: <u>10142019-data</u>		
Meter Verification Date: <u>10/14/19</u>			

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: **3AD**

RQ: **2019-10-07-20**

Project: **B.S. Fish Lake 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	9/30/19	847	23.5	760	8.5	8.49	100.1	/	/	P/F	L/F
ICV			850	23.0	760	8.5	8.53	100.0	/	/	P/F	L/F
CCV	↓	10/14/19	1535	22.6	760	8.6	8.60	99.6	/	/	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	9/30/19	853	190711B	7/20	1000	1001	P/F	L/F
ICV	↓		857	719820	12/19	24820	24309	P/F	L/F
CCV	↓	10/14/19	1543	190711B	7/20	1000	1026	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.						7.				P/F	L/F
Calibr.						4.				P/F	L/F
Calibr.						10.				P/F	L/F
ICV										P/F	L/F
CCV										P/F	L/F
CCV										P/F	L/F

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

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -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: _____

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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						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:

Continuous Monitoring Event

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Brian Davis

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

WIN / Field ID:



G2NE1175

Big Fishweir Creek at
end of Merrimac Ave.

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms
Salinity
(ppt)

3.21

Comments

Location

Field ID

WIN/STORET #

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms
Salinity
(ppt)

Comments

Location

Field ID

WIN/STORET #

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms
Salinity
(ppt)

Comments

Location

Field ID

WIN/STORET #

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms
Salinity
(ppt)

Comments

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

A. Kalmbacher

10-14-2019

Fed Ex

1

1600

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10-14-2019 Time 14:15	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 2.57	Total Res. Chlorine (mg/L)	A
Temp (C) 25.6 pH 7.23		Sample Depth 0.3	Sp. Conductance (umho/cm) 5938	
Salinity (ppt) 3.21		Comments		

☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
Temp (C) pH		Sample Depth	Sp. Conductance (umho/cm)	
Salinity (ppt)		Comments		

☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
Temp (C) pH		Sample Depth	Sp. Conductance (umho/cm)	
Salinity (ppt)		Comments		

☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine (mg/L)	
Temp (C) pH		Sample Depth	Sp. Conductance (umho/cm)	
Salinity (ppt)		Comments		

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-BR-IC W-F W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 Sent to ALS lab
	NE-ALS-ENQ						
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	PCR-HF183						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	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: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALKALINITY TURBIDITY W-BR-IC W-F W-TSS						

