

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: Desi

RQ: 2019-06-10-66

Project: CM Bo Fishweir

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 7/2019

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. Appleby	9/16/19	808	23.3	760.4	8.5	8.54	100.1	-	-	P/F	F
ICV	↓	↓	810	23.3	760.5	8.5	8.53	100.1	-	-	P/F	F
CCV	↓	↓	1605	24.5	759.4	8.33	8.33	100.0	-	-	P/F	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.	K. Appleby	9/16/19	814	190711B	7/2020	1000	1000	P/F	F
ICV	↓	↓	816	190711A	7/2020	100	104.2	P/F	F
CCV	↓	↓	1607	719820	12/2019	24,820	24,668	P/F	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.	K. Appleby	9/16/19	817	2902778	1/2021	7.00	24.3	7.00	-27.6	P/F	F
Calibr.	↓	↓	820	2904300	3/2021	4.00	24.2	4.00	154.3	P/F	F
Calibr.	↓	↓	822	2901351	7/2020	10.00	24.3	10.00	-200.0	P/F	F
ICV	↓	↓	824	2904300	3/2021	4.00	24.2	4.00	152.9	P/F	F
CCV	↓	↓	1611	2901351	7/2020	10.00	23.7	10.03	-204.0	P/F	F
CCV							24.2			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: 7/2019

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. Appleby	9/16/19	824	0.00	0.00	P/F	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: 9/16/19

(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- 06-10-66

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
The Brian Davis									
Kimberly Appleby									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Desi</u>		
Equipment ID <u>Ortho Kit #1</u>		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# Desi Matrix: Fresh / Marine / DI

Photos: Yes / No Flow: No Flow / Intertidal / Flowing / NA Tide: Rising/ Falling / Slack/ NA Tide Times: High 1200 Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (umhos/cm)	Temp. (C°)
EST	1425	1.25	0.3	0.7	5.38	69.4	7.55	22.2	4208	28.2
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

S BIO 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	SA9010030	4/2020	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA9099030	4/2020	☒ <2
Filtered Nutrients	☐ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	R9BA8687		
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	☒ Ice			
	☒ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				
Tracers	☒ W-E8321-DI ☒ W-E8321-MS	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI	☐ Ice			
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:

WIN / Field ID:



G2NE1175

Big Fishweir Creek at
end of Merrimac Ave.

Signature: [Signature] Date: 9/16/19

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)

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

Do not "X" this box if there are qualified data on this page

Meter ID: MOE

RQ: 2019-06-10-66

Project: CM Big Fish weir

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	9/10/19	837	23.7	764.7	8.5	8.51	100.6	/	/	P / F	L / F
ICV	↓	↓	838	23.8	764.7	8.5	8.50	100.6	/	/	P / F	L / F
CCV	↓	9/17/19	825	23.7	758	8.4	8.46	99.9	/	/	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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	9/10/19	842	190711B	7/20	1000	994	P / F	L / F
ICV	↓	↓	845	190519B	3/20	100	103.6	P / F	L / F
CCV	↓	9/17/19	830	719820	12/19	24,820	24,824	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	9/10/19	901	2902778	1/21	7.0	24.8	7.0	-70.6	P / F	L / F
Calibr.	↓	↓	905	2904800	3/21	4.0	24.7	4.01	108.8	P / F	L / F
Calibr.	↓	↓	911	2901851	7/20	10.0	24.8	10.0	-244.8	P / F	L / F
ICV	↓	↓	918	2902778	1/21	7.0	24.8	7.06	-72.3	P / F	L / F
CCV	↓	9/17/19	841	291851	7/20	10.01	24.0	10.34	-265.1	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 _____, 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	9/10/19	922	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
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

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: 2019-06-10-66

Meter ID# : <u>MCE</u>			
Pre-Deployment Setup			
Date: <u>9/10/19</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>99%</u>	Expected Voltage Battery Life: <u>3.07V</u>	Programmed Duration: <u>N/A</u>
Sonde Filename: <u>B.Fish 6F09102019</u>			Reset Clock? (Y or N) <u>N</u>
Programmed Start Date/Time: <u>9/10/19</u> (mm/dd/yyyy) <u>12:00</u> (hh:mm:ss) (Cent. / <u>East</u>)			Wipers Park Correctly? <u>Y</u>
Programmed End Date/Time: <u>9/16/19</u> (mm/dd/yyyy) <u>12:00</u> (hh:mm:ss) (Cent. / <u>East</u>)			Calibration Date <u>9/10/19</u>

Deployment			
Date: <u>9/10/19</u>		Time Into Water: <u>1325</u>	
Time Zone: Cent. / <u>East</u>			
Deployed Sonde Latitude: <u>30.290400</u>	Deployed By: <u>BD</u>		(print all staff present)
Deployed Sonde Longitude: <u>-81.717810</u>	<u>AK</u>		

Notes: (how to get to, landmarks, site considerations & concerns, etc.)

Photos: Yes ☒ No ☐

Retrieval			
Date: <u>9/16/19</u>		Time Out Of Water: <u>1425</u>	
Time Zone: Cent. / <u>East</u>			
Mounting left or removed? <u>Removed</u>	Retrieved By: <u>BD, KA</u>		

Notes: (significant fouling, signs of human disturbance, site considerations and concerns, etc.)

Very High Tide while removing.

Post-Deployment			
Date: <u>9/16/19</u>		Performed by: <u>P Davis</u>	
Data File Downloaded? <u>Yes</u> / No	Archived Filename: <u>d-ta-09102019</u>		
Meter Verification Date: <u>9/16/19</u> / pH J-code on 10.0 buffer			



SR #
ALS Contact

Page _____ of _____

[illegible]

Continuous Monitoring Event

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Brian Davis

Field Report Prepared By: B = D =

Project ID: SMP

Collected By: B Davis, K Appleby

Sampling Agency: BEAR NEP

WIN / Field ID:  G2NE1175		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/16/19 Time 1425		Eastern Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Big Fishweir Creek at end of Merrimac Ave.				Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.38		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
Temp (C) 28.2				pH 7.55		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 4208	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) 2.21		Comments					
Location				☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #				Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					
Location				☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #				Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					
Location				☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #				Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					
Location				☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #				Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					
Location				☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #				Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments					
Relinquished By: B = D =				Date/Time: 9/16/19 1600		Shipping Method: FedEx		Number of Coolers Shipped: 1		Received By:	
										Date/Time	

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 to ALS
	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						