

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:

54124

RQ:

2019-11-25 -12

Project:

LSSR Southside

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

10/19

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	11/26/19	743	21.7	757.9	8.8	—	99.7	—	1.03	P / F	L / F
ICV			745	21.8	758	8.8	8.76	99.8	—	1.03	P / F	L / F
CCV	AKelmbacher	11-26-19	1310	20.0	758	9.1	9.23	101.7			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	11/26/19	749	190711B	7/20	1000	1000	P / F	L / F
ICV			753	147103	4/20	147	148.3	P / F	L / F
CCV	AKelmbacher	11-26-19	1313	190711B	7/2020	1,000	998	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.	B = P =	11/26/19	804	2902778	1/21	7.01	22.2	7.01	-12.5	P / F	L / F
Calibr.			808	2904B00	3/21	4.0	22.7	4.0	168.2	P / F	L / F
Calibr.			812	2810F55	4/20	10.02	22.5	10.03	-182.6	P / F	L / F
ICV			817	2902778	1/21	7.00	22.5	7.07	-11.9	P / F	L / F
CCV	AKelmbacher	11-26-19	1315	2904B00	3/2021	4.0	23.0	4.05	164.2	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 10 170.3, slope from 4 to 7 180.5 (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	B = P =	11/26/19	820	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: MILLER CR @ SCHUMACHER

Date: 11/26/2019

(mm/dd/yyyy)

WIN/ Field ID: 20030794

WBID: 2287A

Latitude: 30.30061

(Decimal Degrees)

County: Duval

ORG ID: 21FLA

Longitude: 81.62991

(Decimal Degrees)

Receiving Body of Water: SJR

RQ-2019- 11-25-12

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
The Brian Davis					X				☒ Sample Container	☐ Van Dorn	☒ Pole	
Amy Kalmbacher				X		XX			☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with <u>Secchi</u>			
									Equipment ID <u>Ortho Kit 44</u>			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☒ From Shore	☐ Electric Motor		
									☐ Other	☐ Gasoline Motor		
Water Level: Dry/ Pooled/ Low <u>Normal</u> / High / Flooded				Meter ID# <u>Pro DSS Stedeh</u>				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes <u>No</u>				Flow: No Flow / Intestinal / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack <u>NA</u>				
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°)		
EST	1000	0.1	0.05	0.1	6.37	65	6.73	0.17	344	16.4		
CEN				S								
Biological Samples Collected: <u>None</u> 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	SA920300	07/2020	☐ <2				
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3			☐ <2				
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice	R9BA86875						
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	☐ ME-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				☐ Ice							

Notes:

WIN / Field ID: 20030794

MILLER CR @ SCHUMACHER

Signature: A. Kalmbacher Date: 11-26-2019

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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?
Yes / No

WIN Station Name: DEEP BOTTOM CREEK AT SCOTT MILL RD

Date: 11/25/2019
(mm/dd/yyyy)

WIN/ Field ID: 20030595

WBID: 2361

Latitude: 30.1785

(Decimal Degrees)

County: Duval

ORG ID: 21FLA

Longitude: 81.6378

(Decimal Degrees)

Receiving Body of Water: SJR

RQ-2019- 11-25-12

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
The Brian Davis									☒ Sample Container	☐ Van Dorn	☒ Pole	
Amy Kalmbacher									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with <u>sechi</u>			
									Equipment ID			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☒ From Shore	☐ Electric Motor		
									☐ Other	☐ Gasoline Motor		
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded				Meter ID# <u>Pra DSS stitch</u>				Matrix: <u>Fresh</u> / Marine / 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>1145</u>	<u>1.4</u>	<u>0.3</u>	<u>0.9</u>	<u>4.48</u>	<u>45</u>	<u>6.97</u>	<u>0.38</u>	<u>774</u>	<u>15.4</u>		
CEN												
Biological Samples Collected: <u>None</u> 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>SA9203100</u>		<u>7/2020</u> ☐ <2			
Metals		☒ W-ICPMS ☒ W-ICP			☒ Ice ☒ HNO3		<u>NA8344050</u>		<u>12/2019</u> ☐ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter			☒ Ice		<u>TR9BA86875</u>					
Chlorophyll		☒ CHLSUITE-W			☒ Ice							
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-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:												
Signature: <u>Kalmbacher</u>				Date: <u>11-26-2019</u>								

WIN / Field ID: 20030595

DEEP BOTTOM CREEK AT SCOTT MILL RD

Contains: 1:1 H2SO4
Lot No.: SA9203100
Expires: 07/22/20
See Safety Data Sheet (SDS)

Contains: 1:1 HNO3
Lot No.: NA8344050
Expires: 12/10/19
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4
Lot No.: SA9203100
Expires: 07/22/20
See Safety Data Sheet (SDS)

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:

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Field Report Prepared By:

Collected By: R. Davis

Sampling Agency: FDEP/NE ROC

WIN / Field ID:



20030794

MILLER CR @ SCHUMACHER

Latitude

☐ dd

Longitude

☐ dms

WIN / Field ID:



20030852

CORMORANT BRANCH
@ MARBON RD

Latitude

☐ dd

Longitude

☐ dms

WIN / Field ID:



20030595

DEEP BOTTOM CREEK AT SCOTT MILL RD

Latitude

☐ dd

Longitude

☐ dms

Location

Field ID

WIN/STORET #

Latitude

☐ dd

Longitude

☐ dms☐ Comp

Collection (comp begin or grab)

☒ Grab

Date 11-26-2019 Time 1000

Eastern

Composite end

Central

Date Time

Bottle

Group(s)
(See pg 2)

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen

☒ mg/L

Total Res. Chlorine

☐ % sat

(mg/L)

Temp

(C)

16.4

pH

6.73

Sample

Depth

☐ ft☐ m

Sp. Conductance

(umho/cm)

344

☐ dd☐ dms

Salinity

(ppt)

0.17

Comments

☐ Comp

Collection (comp begin or grab)

☒ Grab

Date 11-26-2019 Time 1035

Eastern

Composite end

Central

Date Time

Bottle

Group(s)

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen

☒ mg/L

Total Res. Chlorine

☐ % sat

(mg/L)

Temp

(C)

13.4

pH

6.92

Sample

Depth

☐ ft☒ m

Sp. Conductance

(umho/cm)

204.9

☐ dd☐ dms

Salinity

(ppt)

0.13

Comments

☐ Comp

Collection (comp begin or grab)

☒ Grab

Date 11-26-2019 Time 1145

Eastern

Composite end

Central

Date Time

Bottle

Group(s)

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen

☒ mg/L

Total Res. Chlorine

☐ % sat

(mg/L)

Temp

(C)

15.4

pH

6.97

Sample

Depth

☐ ft☒ m

Sp. Conductance

(umho/cm)

774

☐ dd☐ dms

Salinity

(ppt)

0.38

Comments

☐ Comp

Collection (comp begin or grab)

☐ Grab

Date Time

Eastern

Composite end

Central

Date Time

Bottle

Group(s)

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen

☐ mg/L

Total Res. Chlorine

☐ % sat

(mg/L)

Temp

(C)

pH

Sample

Depth

☐ ft☐ m

Sp. Conductance

(umho/cm)

☐ dd☐ dms

Salinity

(ppt)

Comments

Relinquished By:

Date/Time

11-26-2019

Shipping Method

FedEx

Number of Coolers Shipped:

1

Received By:

Date/Time

1255

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	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-120ML-WC-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2 Sent to ALS
	NE-ALS-ECQ						
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: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						

Group: B	Bottle Type:	BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W					
Group: B	Bottle Type:	P-120ML-WC-THI	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4 Sent to ALS
	NE-ALS-ECQ					
Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: B	Bottle Type:	P-125ML	# of Bottles: 2	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F					