

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:

2019-12-09-20

Project:

Spence Central Alabama County

2019-12-09-21

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 10/2019

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. McDonald	12/11/19	0733	21.7	762.7	8.8	8.8	100.4	—	1.025	P/F	L/F
ICV	↓	↓	0735	21.9	762.6	8.8	8.81	100.6	—	1.025	P/F	L/F
CCV	K. McDonald	12/11/19	1628	21.8	765.2	9.0	8.87	101.0	—	1.025	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.	K. McDonald	12/11/19	0739	191018	10/2020	1000	1000	P/F	L/F
ICV	↓	12/11/19	0744	190711A	07/2020	100	103.6	P/F	L/F
CCV	K. McDonald	12/11/19	1631	191018	10/2020	1000	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.	K. McDonald	12/11/19	0747	2902778	01/2021	7.01	23.3	7.01	-23.8	P/F	L/F
Calibr.	↓	↓	0751	2907062	07/2021	4.00	23.5	4.00	160.3	P/F	L/F
Calibr.	↓	↓	0755	2904E91	10/2020	10.02	23.4	10.02	-193.8	P/F	L/F
ICV	↓	↓	0758	2902778	01/2021	7.01	23.4	7.09	-23.8	P/F	L/F
CCV	K. McDonald	12/11/19	1634	2904E91	10/2020	10.02	23.3	9.94	-190.4	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: 10/23/19

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	12/11/19	0801	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:

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:

YSI 9000

RQ:

2019-12-09-21

Project:

Alachua County

2019-12-09-20

Surawana Central

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

10/2019

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.	J. Parnish	12/11/19	705	22.5	766	8.7	8.7	100.8	—	1.05	P/F	L/F
ICV	J	—	707	22.5	766	9.7	8.7	100.8	—	1.05	P/F	L/F
CCV	K. McDonald	12/11/19	1020	21.6	769.3	8.9	8.90	100.9	—	1.05	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.	J. Parnish	12/11/19	708	191018	10/20	1000	1000	P/F	L/F
ICV	J	—	710	190711A	7/20	100	102.4	P/F	L/F
CCV	K. McDonald	12/11/19	1023	147103	4/20	147	147.5	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.	J. Parnish	12/11/19	712	2902778	1/21	7.	23.4	34.9	34.8	P/F	L/F
Calibr.	J	—	713	2907062	7/21	4.	23.6	4.00	142.5	P/F	L/F
Calibr.	J	—	717	2904691	10/20	10.	23.5	10.02	203.8	P/F	L/F
ICV	J	—	715	2907062	7/21	4.0	23.3	3.97	143.7	P/F	L/F
CCV	K. McDonald	12/11/19	1025	2904691	10/2020	10	23.4	10.02	205.5	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: 10/2019

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	J. Parnish	12/11/19	717	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:

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Calf Creek @ SE 27th st.

Date: 12/11/2019
(mm/dd/yyyy)

WIN/ Field ID: G1NE0931

WBID: 2720

Latitude: 29.62943

(Decimal Degrees)

County: Alachua

ORG ID: 21FLA

Longitude: -82.28941

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2019- 12-09-20

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>K. McDonald</u> <u>A. Hogue</u> <u>J. Parrish</u>				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☒ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
Depth Measured with <u>Des.</u>				Equipment ID <u>ortho K4#3</u>				Collection Method				
☐ Wading				☐ Canoe/Kayak				☐ Electric Motor				
☒ From Shore				☐ Gasoline Motor				☐ Other				
☐ Other												
Water Level: <u>Dry</u> / Pooled / Low / <u>Normal</u> / High / Flooded				Meter ID# <u>DEST</u>				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>				Flow: <u>No Flow</u> / Intestinal / <u>Flowing</u> / NA				Tide: <u>Rising</u> / Falling / Slack / NA				
Tide Times: High <u>Low</u>												
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>1100</u>	<u>0.32</u>	<u>0.15</u>	<u>0.3</u>	<u>6.32</u>	<u>67.4</u>	<u>7.30</u>	<u>0.15</u>	<u>303.6</u>	<u>18.3</u>		
<u>CEN</u>				<u>S</u>								
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: LIMSH:												
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>07/2020</u>	☒				
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3	<u>NA8344050</u>	<u>12/2019</u>	☒				
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice	<u>P9EA32199</u>						
Chlorophyll	☒ CHL-SUITE-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 Coll ☐ F Coll ☐ Enterococci				☒ Ice							
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2				☐ Ice							
	☐ PCR-HF1B3 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice							
Tracers	☒ W-E8321-DI ☒ W-E8321-MS				☒ Ice							
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI				☐ Ice							
	☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA				☐ Ice							
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice							

Notes: Calf Creek @ Farm complex
29.6335293, -82.2959105
property owner: William Ellis
wrellis@gru.net
Joni Ellis → joni@opticsforthe tropics.org

WIN ID/Field ID:



G1NE0931

Calf Creek at SE 27th st.

Signature: B = D =

Date: 12/11/19

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: _____ (Initials/Date) _____
Verify Data in WIN: _____ (Initials/Date)

Suwannee Central and Alacua makeup

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. Parish

Field Report Prepared By: Brian Davis

Project ID: SMP

Collected By: B. Davis, K. ApplebySampling Agency: DEAR NE D

Location	WIN ID/Field ID:  G1NE0919	☐ Comp ☒ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STOR	Five Mile Cr. At SW 150th blvd	Temp (C) _____	pH _____	Sample Depth ☐ ft ☒ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd Longitude ☐ dms	☐ dd Salinity (ppt) ☐ dms	Comments			
Location	WIN ID/Field ID:  G1NE0906	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>12/11/19</u> Time <u>1020</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>7.89</u> ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	<u>C</u>
WIN/STOR	Paraners Branch - E of CR 1491, S of NW 276th Ln	Temp (C) <u>17.4</u>	pH <u>7.36</u>	Sample Depth <u>0.05</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>232.7</u>	
Latitude	☐ dd Longitude ☐ dms	☐ dd Salinity (ppt) <u>0.11</u> ☐ dms	Comments			
Location	WIN ID/Field ID:  G1NE0931	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>12/11/19</u> Time <u>1100</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>6.32</u> ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	<u>A</u>
WIN/STOR	Calf Creek at SE 27th st.	Temp (C) <u>18.3</u>	pH <u>7.30</u>	Sample Depth <u>0.15</u> ☐ ft ☒ m	Sp. Conductance (umho/cm) <u>303.6</u>	
Latitude	☐ dd Longitude ☐ dms	☐ dd Salinity (ppt) ☐ dms	Comments			
Location	WIN ID/Field ID:  G1NE0020	☐ Comp ☒ Grab	Collection (comp begin or grab) Date _____ Time _____	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <u>No sample</u>		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STOR	Rocky Creek at 156th av.	Temp (C) _____	pH _____	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd Longitude ☐ dms	☐ dd Salinity (ppt) ☐ dms	Comments			

Relinquished By: B. Davis

Date/Time

12/11/19 1630

Shipping Method

FedExNumber of Coolers Shipped: 2

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-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 to AEL
NE-AEG-EC							
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-CL-IC W-COLOR W-F							

Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
W-SO4-IC W-TDS W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
CHLSUITE-W						
Group: B	Bottle Type:	P-120ML-WC-THI	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	0
NE-AEG-EC						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	0
W-ICP W-ICPMS						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: B	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	0
W-PO4-F						
Group: C	Bottle Type:	P-1L	# of Bottles: 3	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: C	Bottle Type:	BP-1L	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W						
Group: C	Bottle Type:	P-120ML-WC-THI	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	1 to AEL
NE-AEG-EC						

Group: C Bottle Type: P-500ML # of Bottles: 3 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: C Bottle Type: P-125ML # of Bottles: 3 Preservative: FILTER-ICE Enter Number of Bottles Sent to Lab 1

W-PO4-F



<u>Altamonte Springs:</u>	380 Northlake Blvd., Suite 104B • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
<u>Gainesville:</u>	4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
<u>Jacksonville:</u>	6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
<u>Miramar:</u>	10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
<u>Tallahassee:</u>	2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
<u>Tampa:</u>	9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

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