

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**

RQ: **2019-06-24-05**

Project: **ICW - Boat**

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

6 / 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.	C. Ruben	6-27-19	0741	23.6	760	8.5	8.47	98.5	-	-	P/F	L/F
ICV	↓	↓	0743	23.7	760	8.5	8.48	100.1	-	-	P/F	L/F
CCV	Kelmbacher	↓	1520	23.3	759.5	8.5	8.56	100.3	-	-	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.	C. Ruben	6-27-19	0745	180919	9/2019	50,000	51.066	P/F	L/F
ICV	↓	↓	0747	190430A	5/2020	1000	1023	P/F	L/F
CCV	Kelmbacher	↓	1523	180919	9/2019	50,000	51.244	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.	C. Ruben	6-27-19	0750	2901054	3/2021	7.	24.8	7.00	-57.9	P/F	L/F
Calibr.	↓	↓	0752	2904800	3/2021	4.	24.9	3.84	123.2	P/F	L/F
Calibr.	↓	↓	0754	2901851	7/2020	10.	24.7	10.02	-231.1	P/F	L/F
ICV	↓	↓	0756	2904800	3/2020	4.0	24.8	4.01	121.5	P/F	L/F
CCV	Kelmbacher	↓	1525	2901851	7/2020	10	24.3	9.99	-231.7	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	C. Ruben	6-27-19	0800	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
SMP CONTINUOUS MONITORING SHEET

August 2017

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: Hopkins Ct at Kings Rd

WBID: 2266

STORET Station ID: 20010758

ORG ID: 21FLA

Field ID: _____

County: Duval

RQ: 2019-06-10-66

Meter ID#: 3AD

Pre-Deployment Setup

Date: 6/6/19

Performed by: B P

Parameters

Recorded:

☒ Date

☒ Time

☒ Temp. (C°)

☒ Sp. Cond.

☒ DO SAT

☒ DO (mg/L)

☐ pH

☒ Depth

Sampling Interval
(min): 15

Free Memory
(days): 88.2

Expected
Battery Life: 196 days

Programmed
Duration: 7 days

Sonde Filename: HC6619

Reset Clock?
(Y or N) N

Programmed Start
Date/Time: 6/6/19 (mm/dd/yyyy) 10:00 (hh:mm:ss)

(Cent. / East) East

Wipers Park
Correctly? Yes

Programmed End
Date/Time: 6/13/19 (mm/dd/yyyy) 10:00 (hh:mm:ss)

(Cent. / East)

Calibration Date 6/6/19

Deployment

Date: 6/6/19

Time Into Water: 1015

Time Zone: Cent. / East

Deployed Sonde
Latitude: 30.309277

Deployed Sonde
Longitude: -81.4169166

Deployed By:
(print all staff
present) B P, CR

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

Photos: Yes / No

Retrieval

Date: 6-27-2019

Time Out Of Water: 1310

Time Zone: Cent. / East

Mounting left or
removed? Removed

Retrieved By: CR, AK

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

Partly cloudy, hot - mid 90's
rising tide

Post-Deployment

Date: 6/27/19

Performed by:

Data File Downloaded? Yes / No

Archived Filename:

Meter Verification Date: 6/27/19

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:

Project: Hopkins 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.	<u>Bruce Davis</u>	<u>6/6/19</u>	<u>808</u>	<u>24.2</u>	<u>760</u>	<u>8.4</u>	<u>8.42</u>	<u>99.9</u>	<u>/</u>	<u>/</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>↓</u>		<u>810</u>	<u>23.6</u>	<u>760</u>	<u>8.5</u>	<u>8.41</u>	<u>99.5</u>	<u>/</u>	<u>/</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>↓</u>	<u>6/27/19</u>	<u>1505</u>	<u>24.4</u>	<u>760</u>	<u>8.4</u>	<u>8.43</u>	<u>100.9</u>	<u>/</u>	<u>/</u>	<u>(P) F</u>	<u>(L) F</u>
CCV											<u>P / F</u>	<u>L / F</u>

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.	<u>B = P =</u>	<u>6/6/19</u>	<u>813</u>			<u>1000</u>	<u>1000</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>↓</u>		<u>816</u>			<u>50,000</u>	<u>50,121</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>↓</u>	<u>6/27/19</u>	<u>1509</u>			<u>1000</u>	<u>1024</u>	<u>(P) F</u>	<u>(L) F</u>
CCV								<u>P / F</u>	<u>L / F</u>

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.						<u>7.</u>				<u>P / F</u>	<u>L / F</u>
Calibr.						<u>4.</u>				<u>P / F</u>	<u>L / F</u>
Calibr.						<u>10.</u>				<u>P / F</u>	<u>L / F</u>
ICV										<u>P / F</u>	<u>L / F</u>
CCV										<u>P / F</u>	<u>L / F</u>
CCV										<u>P / F</u>	<u>L / F</u>

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	<u>B = P =</u>	<u>6/6/19</u>	<u>817</u>	<u>0.00</u>	<u>0.00</u>	<u>(P) F</u>	<u>(L) F</u>

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:

Brian Davis

Project ID: SMP

Collected By:

C. Ruben, A. Kolmbacher

Sampling Agency:

Location <i>Hopkins Creek at Kings Rd</i>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <i>6/27/19</i> Time <i>1245</i>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) <i>C</i>
Field ID		Matrix (type, e.g., Salt, Fresh, etc) <i>Salt</i>		Diss. Oxygen <i>4.23</i>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # <i>20030758</i>		Temp (C) <i>31.8</i>	pH <i>7.13</i>	Sample Depth <i>0.3</i>	☐ ft ☒ m	Sp. Conductance (umho/cm) <i>37,718</i>		
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) <i>23.79</i>		Comments				
Location		☐ 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)		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	Composite end Date _____ Time _____		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	Composite end Date _____ Time _____		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: <i>B. Davis</i>	Date/Time <i>6/27/19 1630</i>	Shipping Method <i>FedEx</i>	Number of Coolers Shipped: <i>1</i>	Received By:	Date/Time
-------------------------------------	----------------------------------	---------------------------------	--	--------------	-----------

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: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY						
TURBIDITY						
W-BR-IC						
W-F						
W-TSS						
Group: C	Bottle Type:	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W						
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-F-F						
W-PO4-F						
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
W-ICP						
W-ICPMS						
Group: C	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						