

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: L1LO

RQ:

Project: BMAP Clipboard

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 8/1/22

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. Villinger	10/3/22	921	19.30	761.4	9.2	—	100.4	—	1.044	(P) F	(L) F
ICV	↓	↓	925	19.30	761.4	9.2	9.26	100.2	—	1.044	(P) F	(L) F
CCV	↓	10/7/22	11630	24.13	755.4	8.4	8.24	98.2	—	1.044	(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.	K. Villinger	10/3/22	930	220225B	3/23	50000	50000	(P) F	(L) F
ICV	↓	↓	936	211122A	12/22	15000	14.863	(P) F	(L) F
CCV	↓	10/17/22	11633	220225B	3/23	50000	49.626	(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 ± 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: 8/1/22

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. Villinger	10/3/22	939	0.000	0.000	(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:

SECN Coastal Water Quality Monitoring
 Datasonde Datasheet v1.42 (11/2019)—DEPLOYMENT

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) L110
 Calibration Date 10/3/22 Calibrated By K Villinger
 Battery Voltage Pre-Calibration 2.4 Battery Voltage >5.3 Y / (N) Battery Voltage Post-Calibration 2.35
 Central Wiper Replaced Y / (N) Central Wiper Parking 180° (Y) N
 Barometric Pressure (mmHg) 761.5 Conductivity Cell Constant 0.462127 ODO Gain 1.044
 pH7 (mv) — pH10 (mv) — pH4 (mv)(check) — pH Slope —

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>18.87</u>	<u>50.000</u>	<u>0.000</u>	<u>100</u>	<u>9.2</u>		
Measured	<u>18.876</u>	<u>49.992</u>	<u>0.000</u>	<u>100.2</u>	<u>9.26</u>		
Calibrated		<u>50.000</u>	<u>0.000</u>	<u>100.2</u>	<u>9.2</u>		

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PC Low (µg/l)	BGA-PC High (µg/l)
Standard							
Measured							
Calibrated							

Deployment

Deployed By: K. Villinger, B. Davis File Name: CC10032022
 (Station name _YYYYMMDD)
 Sonde Start Date: 10/3/22 Sonde Start Time: 1145 Eastern Standard Time (EST)
 Actual Deployment Date: 10/3/22 Actual Time Placed in Water: 1146 (EST)

Comments:

Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / Tropical Storm ☐ Other ☐

Observation Description:

Recorded By: K. Villinger Computer Entry By / Date: _____

Certified By / Date: _____

SECN Coastal Water Quality Monitoring
YSI Datasonde Datasheet v1.42 (11/2019)— **RETRIEVAL**

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

L1LO

Retrieved By

K. Villinger / B. Parks

Retrieval Date

10/17/22

Retrieval Time

1318 (EST)

Field Meter # (SN)

ELSA MOE

Field Meter Calibration Date

10/17/2022

On Site Readings

	Temp (°C)	Baro. Pres. (mmHg)	ODO (% Sat.)	ODO (mg/l)	Sp. Cond. (mS/cm)	Salinity (psu)	pH	Turb. (FNU)	Depth (m)	Chla (µg/l)	BGA (µg/l)
Field Meter	<u>24.97</u>	<u>756.0</u>	<u>78.5</u>	<u>6.33</u>	<u>13.900</u>	<u>8.0</u>			<u>3.360</u>		
In situ Sonde	<u>24.98</u>	<u>756.0</u>	<u>78.6</u>	<u>6.24</u>	<u>12.747</u>	<u>7.31</u>			<u>4.235</u>		

Fouling presence: Please record type of fouling **AND** amount (e.g. A, B, E, / H). Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none, S= Sediment / Amount H=Heavy, M= Moderate, L= Light, N= None

Sonde/Guard: A, B External Screen: Temp/Cond: A

ODO Probe: A pH Probe: Turbidity:

Post Deployment

Post Deployment Reading Date 10/17/2022 Battery Voltage 229 Central Wiper Parking 180° (Y) N

Barometric Pressure (mmHg) 755.34 Conductivity Cell Constant 0.462127

pH7 (mv) pH10 (mv) pH Slope pH4 (mv)

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>24.05</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.4</u>		
Measured (clean sensors)	<u>24.03</u>	<u>49.626</u>	<u>0.000</u>	<u>98.2</u>	<u>8.24</u>		

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PE Low (µg/l)	BGA-PE High (µg/l)
Standard							
Measured (clean sensors)							

Any Probe Malfunctions?

Y / N

If Y, describe in the comments.

File Name:

CC10032022

(Station name _YYYYMMDD)

Comments:

Recorded By K. Villinger

Computer Entry By / Date

Certified By / Date