

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: M02

RQ:

Project: BMAP Clapboard

- 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 11/21/22

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.	<u>K Villings</u>	<u>11/28/22</u>	<u>855</u>	<u>23.3</u>	<u>762.2</u>	<u>8.5</u>	<u>-</u>	<u>100.3</u>	<u>-</u>	<u>1.065</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
ICV			<u>857</u>	<u>23.65</u>	<u>762.2</u>	<u>8.5</u>	<u>8.52</u>	<u>100.5</u>	<u>-</u>	<u>1.065</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV		<u>11/20/22</u>	<u>1512</u>	<u>21.3</u>	<u>765.0</u>	<u>8.9</u>	<u>8.90</u>	<u>100.5</u>	<u>-</u>	<u>1.065</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV											<u>P</u> <u>F</u>	<u>L</u> <u>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>K Villings</u>	<u>11/28/22</u>	<u>900</u>	<u>220225B</u>	<u>3/23</u>	<u>50000</u>	<u>50000</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
ICV			<u>906</u>	<u>21112A</u>	<u>12/22</u>	<u>15000</u>	<u>14847</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV		<u>12/20/22</u>	<u>1518</u>	<u>210225B</u>	<u>3/23</u>	<u>50000</u>	<u>50123</u>	<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV								<u>P</u> <u>F</u>	<u>L</u> <u>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</u> <u>F</u>	<u>L</u> <u>F</u>
Calibr.						<u>4.</u>				<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
Calibr.						<u>10.</u>				<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
ICV										<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV										<u>P</u> <u>F</u>	<u>L</u> <u>F</u>
CCV										<u>P</u> <u>F</u>	<u>L</u> <u>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: 11/21/22

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	<u>K Villings</u>	<u>11/28/22</u>	<u>908</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u> <u>F</u>	<u>L</u> <u>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:

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) M02
 Calibration Date 11/28/22 Calibrated By K. Villinger
 Battery Voltage Pre-Calibration 2.18 Battery Voltage >5.3 Y N Battery Voltage Post-Calibration 2.14
 Central Wiper Replaced Y N Central Wiper Parking 180° Y N
 Barometric Pressure (mmHg) 762.2 Conductivity Cell Constant 0.463 ODO Gain 1.065
 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>23.59</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.5</u>		
Measured	<u>23.5</u>	<u>49.903</u>	<u>0.000</u>	<u>100.4</u>	<u>8.51</u>		
Calibrated		<u>50.000</u>	<u>0.000</u>	<u>100.3</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: CC11282022
 (Station name _YYYYMMDD)
 Sonde Start Date: 11/28/22 Sonde Start Time: _____ Eastern Standard Time (EST)
 Actual Deployment Date: 11/28/22 Actual Time Placed in Water: _____ (EST)

Comments:

Changed battery pre-deployment

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

Observation Description:

Recorded By: _____ 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)

Moe

Retrieved By

Kvillinges, BDavis

Retrieval Date

12/19/22

Retrieval Time

1309 (EST)

Field Meter # (SN)

Lilo

Field Meter Calibration Date

12/19/22

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>17.090</u>	<u>769.2</u>	<u>88.7</u>	<u>7.66</u>	<u>30.000</u>	<u>18.57</u>			<u>3.130</u>		
In situ Sonde	<u>17.147</u>	<u>769.2</u>	<u>88.6</u>	<u>7.61</u>	<u>30.496</u>	<u>18.98</u>			<u>3.889</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: C, O (S, L) External Screen: _____ Temp/Cond: _____

ODO Probe: _____ pH Probe: _____ Turbidity: _____

Post Deployment

Post Deployment Reading Date

12/20/22

Battery Voltage

160

Central Wiper Parking 180°

Y Y N

Barometric Pressure (mmHg)

765.0

Conductivity Cell Constant

0.463

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>22.42</u>	<u>50000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.9</u>		
Measured (clean sensors)	<u>22.399</u>	<u>50123</u>	<u>0.038</u>	<u>100.5</u>	<u>8.9</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:

CC11282022

(Station name _YYYYMMDD)

Comments:

Recorded By

Kvillinges

Computer Entry By / Date

Certified By / Date