

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: ELSA

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 3/6/23

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	4/17/23	926	22.4	759.9	8.7	—	100.0	—	1.014	(P) F	(L) F
ICV			928	22.1	759.4	8.7	8.7	99.7	—	1.014	(P) F	(L) F
CCV		5/1/23	1601	22.1	754	8.7	8.74	99.9	—	1.014	(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	4/17/23	955	220719C	7/23	50000	50,000	(P) F	(L) F
ICV			959	230131D	2/24	15000	14960	(P) F	(L) F
CCV		5/1/23	1605	220719C	7/23	50000	50025	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: 3/6/23

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	4/17/23	10 02	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) ELSA
Calibration Date 4/17/23 Calibrated By Kvillinger
Battery Voltage Pre-Calibration 2.47 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 2.42
Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N
Barometric Pressure (mmHg) 760 Conductivity Cell Constant 0.47 ODO Gain 1.014
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	—	50.000	0.000	100.0	8.7		
Measured	—	49.993	0.000	99.7	8.70		
Calibrated		50.000	0.000	100.0	—		

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: Kvillinger, Niki Barnum File Name: CC04172023
(Station name _YYYYMMDD)
Sonde Start Date: 4/17/23 Sonde Start Time: 11:45 Eastern Standard Time (EST)
Actual Deployment Date: 4/17/23 Actual Time Placed in Water: 11:50 (EST)

Comments:

Not thermometers are getting verified - can't verify sonde temp

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

Observation Description:

Recorded By: Kvillinger 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)

Elsa

Retrieved By

Kvillinges

Retrieval Date

5/1/23

Retrieval Time

1011

(EST)

Field Meter # (SN)

L10

Field Meter Calibration Date

5/1/23

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	23.753	757.2	87.2	6.42	37.89	24.05	X	X	3.719	X	X
In situ Sonde	23.84	757.2	87.2	6.42	37.66	23.89	X	X	3.708	X	X

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, C, E, F External Screen: _____ Temp/Cond: _____

ODO Probe: _____ pH Probe: _____ Turbidity: _____

Post Deployment

Post Deployment Reading Date

5/1/23

Battery Voltage

2.4

Central Wiper Parking 180°

(Y) N

Barometric Pressure (mmHg)

754

Conductivity Cell Constant

6.47

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	22.19	50.825	0.000	100.0	8.7	X	X
Measured (clean sensors)	22.19	50.025	0.000	99.9	8.74	X	X

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)

File Name: CC04172023

(Station name _YYYYMMDD)

If Y, describe in the comments.

Comments:

Recorded By Kvillinges

Computer Entry By / Date

Certified By / Date