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 Cardboard

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 9/6/23

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.	KVillages	11/10/23	834	22.2	762.8	8.7	—	100.4	—	1.012	(P) F	(L) F
ICV			837	22.3	762.8	8.7	8.75	100.5	—	1.012	(P) F	(L) F
CCV		12/11/23	1614	20.53	765	8.9	8.90	99.6	—	1.012	(P) F	(L) F
CCV						9.1	9.01	100.1			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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	KVillages	11/10/23	839	230131C	2/24	50000	50,000	(P) F	(L) F
ICV			845	230131D	2/24	15000	15033	(P) F	(L) F
CCV		12/11/23	1618	230612C	6/24	50000	50340	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	KV					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 ± 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: 9/6/23
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	KVillages	11/10/23	846	0.000	0.000	(P) F	(L) / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, 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): EZSA

Calibration Date: 11/6/23 Calibrated By: KVillinger

Battery Voltage Pre-Calibration: 2.46 Battery Voltage >5.3: Y / (N) Battery Voltage Post-Calibration: 2.41

Central Wiper Replaced: Y / (N) Central Wiper Parking 180°: (Y) / N

Barometric Pressure (mmHg): 762.8 Conductivity Cell Constant: 0.471 ODO Gain: 1.012

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	22.60	50.000	0.000	100.0	8.7		
Measured	22.598	50.003	0.000	100.5	8.75		
Calibrated		50.000	0.000	100.4	—		

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, Haylee Bourn File Name: CC11062023
(Station name _YYYYMMDD)

Sonde Start Date: 11/6/23 Sonde Start Time: 1145 Eastern Standard Time (EST)

Actual Deployment Date: 11/6/23 Actual Time Placed in Water: 1146 (EST)

Comments:

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): EZSA
Retrieved By: K Villinger, J Parrish
Retrieval Date: 12/11/23
Retrieval Time: 1107 (EST)
Field Meter # (SN): L110
Field Meter Calibration Date: 12/11/23

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	17.22	766.7	88.3	7.79	24.000	~~3.285~~ 14.666	X	X	3.2174	X	X
In situ Sonde							X	X		X	X

Intentional blank. See below comment (10)

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: F,B,C,A,O External Screen: _____ Temp/Cond: _____

ODO Probe: _____ pH Probe: _____ Turbidity: _____

Post Deployment

Post Deployment Reading Date: 12/11/23 Battery Voltage: NA Central Wiper Parking 180°: (Y) N

Barometric Pressure (mmHg): 765 Conductivity Cell Constant: 0.471

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	21.62	50.000	0.000	100.0	9.1	X	
Measured (clean sensors)	21.59	50.340	0.025	100.1	9.01		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) If Y, describe in the comments.

File Name: CC11062023 (Station name _YYYYMMDD)

Comments: Sonde batteries depleted during deployment. Had to change batteries pre-decat. Will be a gap in data.

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

Certified By / Date: _____