

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

Station Name
TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) **IEA2**
 Calibration Date **3/17/21** Calibrated By **Kim Appleby**
 Battery Voltage Pre-Calibration **11.0** Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration **11.2**
 Central Wiper Replaced ☐ Y ☒ N Central Wiper Parking 180° ☐ Y ☒ N
 Barometric Pressure (mmHg) **762.7** Conductivity Cell Constant **4.86632** ODO Gain **1.03563**
 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	22.77	50.0	0.00	100.0	8.7		
Measured	22.68	50.1	0.00	101.5	8.75		
Calibrated		50.0	0.00	101.2	8.74		

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: **B Davis** File Name: **CC03172021**
 (Station name _YYYYMMDD)
 Sonde Start Date: **3/17/21** Sonde Start Time: **121512:00** Eastern Standard Time (EST)
 Actual Deployment Date: **3/17/21** Actual Time Placed in Water: **1217 12/2 (EST)**

Comments:

sonde time

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

Observation Description:

Recorded By: **B Davis** 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)

JEAZ

18E101511

Retrieved By

Kim Appleby + Brian Davis

Retrieval Date

4/5/21

Retrieval Time

1047

(EST)

Field Meter # (SN)

18E101511 (LTL0)

Field Meter Calibration Date

4/5/21

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	18.80	765.6	94.2	7.49	41.55	26.7	—	—	2.067	—	—
In situ Sonde	19.56	765.6	83.3	6.68	41.11	26.38	—	—	2.627	—	—

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: N External Screen: — Temp/Cond: N

ODO Probe: N pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

4/5/21

Battery Voltage

13.0

Central Wiper Parking 180°

☒ Y ☐ N

Barometric Pressure (mmHg)

763.8

Conductivity Cell Constant

4.86632

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	23.46	50.00	0.00	100.0	8.6		
Measured (clean sensors)	23.33	49.92	-0.05	102.8	8.75		

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:

TIMUclap02-20210317

If Y, describe in the comments.

(Station name_YYYYMMDD)

Comments:

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

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:

SEA 2

RQ:

Project:

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

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.	Kim Appleby	3/17/21	704	22.66	762.7	8.7	8.77	101.2	-	1.03563	(P) F	(L) F
ICV	↓	↓	706	22.67	762.7	8.7	8.75	101.5	-	1.03563	(P) F	(L) F
CCV	↓	4/5/21	1552	23.33	763.8	8.6	8.75	102.8	-	1.03563	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.	Kim Appleby	3/17/21	708	201222L	1/2022	50,000	50,000	(P) F	(L) F
ICV	↓	↓	709	20107B	4/2021	20,000	19,610	(P) F	(L) F
CCV	↓	4/5/21	1554	201222L	1/2022	50,000	49,930	(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: _____

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	Kim Appleby	3/17/21	711	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:

used as "field meter" on 4/5/21

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: L.T.L.O

RQ:

Project: EMAP

Lapboard Creek

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 2/15/21

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.	Kim Appleby	4/5/21	947	21.1	764.8	9.0	8.95	100.6	-	1.084118	☒ P / ☒ F	☒ L / ☒ F
ICV	↓	4/5/21	949	21.2	764.8	9.0	8.95	100.7	-	1.084118	☒ P / ☒ F	☒ L / ☒ F
CCV	↓	4/22/21	1424	21.45	763.6	8.9	8.90	100.8	-	1.084118	☒ 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.	Kim Appleby	4/5/21	955	201222L	1/2022	50,000	50,000	☒ P / ☒ F	☒ L / ☒ F
ICV	↓	4/5/21	957	200407B	4/2021	20,000	19,613	☒ P / ☒ F	☒ L / ☒ F
CCV	↓	4/22/21	1426	201222L	1/2022	50,000	49.99	☒ 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: 2/15/21

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	Kim Appleby	4/5/21	1010	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: