

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 3512
Calibration Date 11/16/20 Calibrated By Kim Appleby
Battery Voltage Pre-Calibration 12.7 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 12.7
Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N
Barometric Pressure (mmHg) 765.4 Conductivity Cell Constant 4.84036 ODO Gain 1.04574
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>23.01</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>8.6</u>	<u>/</u>	<u>/</u>
Measured	<u>22.98</u>	<u>50.14</u>	<u>0.00</u>	<u>100.5</u>	<u>8.60</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.00</u>	<u>0.00</u>	<u>100.4</u>	<u>8.64</u>	<u>/</u>	<u>/</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	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Measured	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

Deployment

Deployed By: Kim Appleby + Kelly McDonald File Name: TIMUclap02-20201116
(Station name_YYYYMMDD)
Sonde Start Date: 11/16/20 Sonde Start Time: 1639 Eastern Standard Time (EST)
Actual Deployment Date: 11/16/20 Actual Time Placed in Water: 1634 (EST)

Comments:

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

Observation Description:

Recorded By: Kim Appleby Computer Entry By / Date: _____

Certified By / Date: _____

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

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

SEA2

Retrieved By

Kim Appleby & Jeremy Parrish

Retrieval Date

12/7/20

Retrieval Time

1102

(EST)

Field Meter # (SN)

9AF

Field Meter Calibration Date

12/7/20

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	18.0	—	7.6	7.6	27.3	16.8	—	—	2.7	—	—
In situ Sonde	18.10	—	0.00	0.00	26.05	15.97	—	—	3.3	—	—

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 External Screen: — Temp/Cond: N

ODO Probe: N pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

12/7/20

Battery Voltage

12.2

Central Wiper Parking 180°

(Y) N

Barometric Pressure (mmHg)

755.3

Conductivity Cell Constant

4.84036

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	21.03	50.00	0.00	100.0	8.9	—	—
Measured (clean sensors)	20.98	48.38	-0.19	104.1	9.27	—	—

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:

TIMUclap02-20201116

(Station name _YYYYMMDD)

Comments: The DO probe intermittently failed to record ODO% and ODO(mg/l) throughout the deployment. This is seen through the data where ODO% and ODO(mg/l) were recorded as zero at times. The probe was reading ODO% and ODO(mg/l) at the time of post deployment readings, and ultimately failed at a later date

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

Used as "Field meter" on 11/16/20

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:

TS12
Clapboard Creek

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.	K. Appleby	11/16/20	952	22.97	765.4	8.6	8.64	100.9	-	1.04574	P/F	L/F
ICV	↓	↓	953	22.98	765.4	8.6	8.60	100.5	-	1.04574	P/F	L/F
CCV	↓	12/7/20	1700	20.98	755.3	8.9	9.27	104.1	-	1.04574	P/F	L/F
CCV		12/7/20	1010	20.99	763.4	9.0	9.08	100.8	-	1.04574	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.	K. Appleby	11/16/20	957	20067A	4/2021	50,000	50,000	P/F	L/F
ICV	↓	↓	959	20067B	4/2021	20,000	19,520	P/F	L/F
CCV	↓	12/7/20	1703	20067A	4/2021	50,000	48,380	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	K. Appleby	11/16/20	955	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 12/7/20

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: 9AE

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	12/7/20	1003	22.31	758.0	8.7	8.66	99.7	—	1.0133	P/F	L/F
ICV	↓	↓	1005	22.32	758.0	8.7	8.70	100.2	—	1.0133	P/F	L/F
CCV	↓	12/23/20	1602								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.	K. Appleby	12/7/20	1014	200407A	4/2021	50000	50000	P/F	L/F
ICV	↓	↓	1016	200407B	4/2021	20000	19470	P/F	L/F
CCV	↓	12/23/20	1604	200407A	4/2021	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	K. Appleby	12/7/20	1008	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: