

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 9AE
Calibration Date 6/8/2020 Calibrated By K. Appleby
Battery Voltage Pre-Calibration 11.7 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 11.7
Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N
Barometric Pressure (mmHg) 760.2 Conductivity Cell Constant 4.88615 ODO Gain 1.01702
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>25.24</u> <u>25.17</u> ^{KA}	<u>50.00</u>	<u>0.00</u>	<u>100</u>	<u>8.2</u>		
Measured	<u>25.20</u>	<u>44.50</u> ^{KA}	<u>0.00</u>	<u>100.3</u>	<u>8.19</u>		
Calibrated		<u>50.00</u>	<u>0.00</u>	<u>100.2</u>	<u>8.22</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. Appleby File Name: TIMUclap0220200608
(Station name _YYYYMMDD)
Sonde Start Date: 6.8.2020 Sonde Start Time: 11:15 Eastern Standard Time (EST)
Actual Deployment Date: 6.8.2020 Actual Time Placed in Water: 11:05 (EST)

Comments:

Overcast, high 80s, outgoing data, lots of rain past 3 days due to tropical storm Cristobal

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

Observation Description:

turbidity at boat ramp

Recorded By: K. Appleby Computer Entry By / Date: K. Appleby

Certified By / Date: _____

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

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

9AE

Retrieved By

K. Appleby + J. Parrish

Retrieval Date

6/22/20

Retrieval Time

1128

(EST)

Field Meter # (SN)

Pro DSS "stretch"

Field Meter Calibration Date

6/22/20

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	28.8	764.4	87.6	5.68	33.72	21.03			3.176		
In situ Sonde	28.2	764.4	68.2	4.66	34.95	21.90			4.023		

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: L External Screen: N Temp/Cond: N

ODO Probe: N pH Probe: - Turbidity: -

Post Deployment

Post Deployment Reading Date

6/22/2020

Battery Voltage

11.3

12.4

Central Wiper Parking 180°

☒ N

Barometric Pressure (mmHg)

761.5

Conductivity Cell Constant

4.895

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	26.65	50.00	0.00	100	7.9		
Measured (clean sensors)	26.56	49.27	0.01	100.0	7.94		

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 / ☒

If Y, describe in the comments.

File Name:

TIMUclap0220200608

(Station name_YYYYMMDD)

Comments:

Sunny 90s

Recorded By

Kim Appleby

Computer Entry By / Date

Kim Appleby 6/22/20

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: **9AE**

RQ: **Clipboard Creek**

Project: **Clipboard 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

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	6/8/20	8:45	25.26	760.2	8.2	8.22	100.2	-	1.01702	P/F	L/F
ICV		6/8/20	9:08	25.61	760.2	8.2	8.19	100.3	-	1.01702	P/F	L/F
CCV				25.9	760.2	8.1	8.1	100.0	-		P/F	L/F
CCV		6/12/20	7:14	27.2	761.2	7.9	7.94	100.0	-		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	6/8/20	9:16	191025L	11/2020	50,000	50,000	P/F	L/F
ICV		6/8/20	9:20	191025B	11/2020	20,000	19,470	P/F	L/F
CCV		6/12/20	14:18	191025L	11/2020	50,000	49,300	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	6/8/20	9:36	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:

Meter for field reading

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: 577ch

RQ

Project

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

6/18/20

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.	J. Parush	6/22/20	737	26.1	764	8.2	8.2	100.5	—	1.027	P/F	O/F
ICV	J	J	738	26.1	764	8.2	8.14	100.5	—	1.027	P/F	O/F
CCV	R. Appleby	J	1443	26.8	762	8.0	8.05	100.6	—	1.027	P/F	O/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.	J. Parush	6/22/20	739	200407C	4/21	1000	1000	P/F	O/F
ICV	J	J	740	190711A	7/20	100	102	P/F	O/F
CCV	R. Appleby	J	1444	191025C	11/20	50000	49812	P/F	O/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.	J. Parush	6/22/20	741	2911819	10/21	7.	26.8	7.00	34.8	P/F	O/F
Calibr.	J	J	742	2001B53	1/22	4.	27.0	4.01	142.9	P/F	O/F
Calibr.	J	J	743	2002911	8/21	10.	27.1	9.98	207.8	P/F	O/F
ICV	J	J	744	2001B53	1/22	4.	26.9	4.01	145.8	P/F	O/F
CCV	R. Appleby	J	1445	2002911	8/21	10.0	27.4	9.92	202.8	P/F	O/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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	J. Parush	6/22/20	749	0.00	0.00	P/F	O/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: