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

Station Name: **TIMUclap02**

Calibration / Pre-Deployment

Instrument (Sonde) # (SN): 11F100555 (SEA1)

Calibration Date: 05-20-2020 Calibrated By: AKalmbacher

Battery Voltage Pre-Calibration: 11.3 Battery Voltage >5.3: (Y)/ N Battery Voltage Post-Calibration: 11.3

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

Barometric Pressure (mmHg): 758.5 Conductivity Cell Constant: 4.7875 ODO Gain: 1.03044

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	23.5	50.00	0.00	100%	8.5		
Measured	23.3	49.99	0.001	100%	8.5		
Calibrated		50.00	0.000	99%	8.5		

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: J.Parrish/A.Kalmbacher File Name: TIMUclap02202005 20 (CC05202020)
(Station name _YYYYMMDD)

Sonde Start Date: 05-20-2020 Sonde Start Time: 945 Eastern Standard Time (EST)

Actual Deployment Date: 05-20-2020 Actual Time Placed in Water: 940 (EST)

Comments:

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

Observation Description:

Recorded By: A. Kalmbacher Computer Entry By / Date: A. Kalmbacher

Certified By / Date:

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

Station Name: **TIMUclap02**

Retrieval

In situ Sonde # (SN): 11F100554 (SEA) | Retrieved By: K. Appleby / A. Kalmbacher

Retrieval Date: 6/8/2020 | Retrieval Time: 11:04 (EST)

Field Meter # (SN): 9AE | Field Meter Calibration Date: 6/8/2020

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	26.27	760.2	80.8	5.64	39.00	24.82	—	—	3.082	—	—
In situ Sonde	26.12	760.2	86.8	4.72	37.89	24.01	—	—	4.159	—	—

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: N | Temp/Cond: N

ODO Probe: N | pH Probe: N | Turbidity: N

Post Deployment

Post Deployment Reading Date: 6/8/2020 | Battery Voltage: 8.0 | Central Wiper Parking 180°: (Y) / N

Barometric Pressure (mmHg): 760.2 | Conductivity Cell Constant: 4.7875

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	27.70	50,000	0.00	100.0	8.1		
Measured (clean sensors)	27.60	49,200	0.02	100.0	8.1		

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_20200608 (Station name _YYYYMMDD)

Comments: Do probe was not sweeping during post deployment measurements. Do membrane however did not have any visible fouling or growth on it.

Recorded By: Kim Appleby | Computer Entry By / Date: Kim Appleby 6/8/2020

Certified By / Date: _____

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1S00, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: JEA 1 RQ- Project: Clapboard 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.	AKalmbacher	5-20-2020	0825	23.2	758.5	8.5	8.5	99%		1.0304	P / F	L / F
ICV			0830	23.2	758.5	8.5	8.5	100%		1.0304	(P) / F	(L) / F
CCV	AKalmbacher	6/8/2020	1420	25.9	760.2	8.1	8.1	100.0		1.0304	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	AKalmbacher	5-20-2020	0835	191025C	11/2020	50,000	50,000	P / F	L / F
ICV			0838	191025C	11/2020	50,000	49,990	(P) / F	(L) / F
CCV	K. Appleby	6/8/20	1430	191025L	11/2020	50,000	49,200	(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.						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: _____
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	Amy Kalmbacher	5-20-2020	0840	0.000	0.001	(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:

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: Pro DSS stitch RQ- Project: Clapboard 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.	AKalmbacher	05-20-20	0910	22.7	758.5	8.6	8.62	99.8		1.04022	P / F	L / F
ICV	↓		0913	22.7	758.5	8.6	8.62	99.9		1.04022	(P) F	(L) F
CCV	↓	05-20-20	1308	24.3	759	8.4	8.41	100.3		1.04022	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	AKalmbacher	05-20-20	0915	191025C	11/2020	50,000	50,000	P / F	L / F
ICV	↓		0919	191025B	11/2020	20,000	19,279	(P) F	(L) F
CCV	↓	05-20-20	1310	191025C	11/2020	50,000	49,795	(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.						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: _____
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	A. Kalmbacher	5-20-20	921	0.00	0.00	(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:

Form effective August 1, 2018