

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 11-8-2018

QC'd By

Battery Voltage 12.2

Turbidity Wiper Replaced Y / (N)

Wiper parking 180° (Y) / N

Replace Batteries Y / (N)

ODO Wiper Replaced Y / (N)

Wiper parking 180° (Y) / N

If Yes, New Voltage

Free memory (days) 141

Battery Life (days) 117

Barometric Pressure 759.4

pH7 (mv) -32.4

pH10/4 (mv) -199.2 / 134.6

Conductivity Cell Constant 5.04057

ODO Gain 1.01679

pH Slope 167.0 / 166.8

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.77	50.0	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	23.95	50.0	7.05	9.98	4.01	100		-2.1	—
Calibrate		50.0	7.00	10.00	4.00	100.1		0.0	125.4

Start Time (Sonde) 10:15

File Name CC11092018 Start Date 11-9-2018

Start Time (Actual) 10:15

Deployment Information

Deployed By CR/AR

Instrument # SEA1 Date 11-8-2018

Time 10:10

Notes

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

Observation Description

Very High Tide - Sonde tube submerged completely
 Warm - high 80's sunny

Recorded By A. Kalmbacher Computer Entry By A. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapham Creek

Retrieval Information:

Retrieved By: BD/ARInstrument # SEA 1 Date 11-29-2018 Time 11:42Barometric Pressure 761.9 mmHg pH7 (mv) -31.8 pH 10 / 4 (mv) -195.6/129.7Battery Voltage 11.5 Turbidity wiper parked 180° ☒ Y / ☐ N ODO ☒ Y / ☐ NPost Calibration Date 11-29-2018 Cond. Cell Constant 5.04057 pH Slope 163.8/151.15

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	21.8	50.00	7.00	10.00	4.00	100	0.0	0.0	—
Measured	22.0	50.93	6.99	9.96	4.06	98.8	0.003	-4.2	—

Fouling presence: Please record type of fouling **AND** amount (eg A, B, E, / H)

Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none / Amount H=Heavy, M= Moderate, L= Light, N= None.

Sonde/Guard: C External Screen: C Temp/Cond: CODO Probe: C pH Probe: C Turbidity: C

Comments:

Cool, Slight chop on water
↳ Low 60's High tideAt least half a dozen
crabs on probes/screen

pH slope off

File Name CC11082018

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

Download File	☒ Y / ☐ N	Date <u>11/30/2018</u>	Initials <u>AK</u>
Sent Datafile	☒ Y / ☐ N	Date <u>11/30/2018</u>	Initials <u>AK</u>
Sent Datasheet	☒ Y / ☐ N	Date <u>11/30/2018</u>	Initials <u>AK</u>

Recorded By: AK ImbacherComputer Entry By: AK Imbacher

Certified By _____

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:

38A1

RQ:

Project:

Clayboard 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	11-8-2018	0940	23.5	759.4	8.49	8.49	100.1	✓	-0.067	P / F	L / F
ICV			0943	23.5	759.4	8.49	8.47	100.0	✓	-0.067	(P) F	(L) F
CCV	AKalmbacher	11-29-18	1615	22.4	761.9	8.67	8.54	98.8	✓	-0.067	(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.	AKalmbacher	11-8-2018	0945	170720C	re-cert 10/2018	50,000	50,000	P / F	L / F
ICV			0947	1021820	9/2019	24,820	25,270	(P) F	(L) F
CCV	AKalmbacher	11-29-18	1620	170720C	10/2018	50,000	50,930	(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.	AKalmbacher	11-8-2018	0952	2803E45	3/2020	7.	24.01	7.00	32.4	P / F	L / F
Calibr.			0955	2806975	6/2020	4.	24.09	4.00	134.6	P / F	L / F
Calibr.			0958	1806F51	12/2019	10.	23.78	10.0	99.2	P / F	L / F
ICV			1005	2803E45	3/2020	7.0	23.8	7.05	35.4	(P) F	(L) F
CCV	AKalmbacher	11-29-18	1630	2803E45	3/2020	7.0	22.3	6.99	31.8	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 10 164.8, slope from 4 to 7 167.0 (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	AKalmbacher	11-8-2018	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: