

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 9-24-2018

QC'd By

Battery Voltage 10.5

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 11.4

Free memory (days) 163

Battery Life (days) 112

Barometric Pressure 759.6

pH7 (mv) -36.5

pH10/4 (mv) -202.7/142.2

Conductivity Cell Constant 5.04847

ODO Gain 1.0201

pH Slope 166.2/178.7

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.1	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	24.4	50.00	7.04	9.96	4.03	100.1	0.001	0.3	125.3
Calibrate		50.00	6.99	9.96	3.99	100	0.0	0.0	125.8

Start Time (Sonde) 10:45

File Name CC09242108 Start Date 9-24-2018

Start Time (Actual) 9:45

Deployment Information

Deployed By Bixler

Instrument # JEA1 Date 09-24-2018

Time 10:42

Notes

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

Observation Description

Very High Tide - swift current
 Cloudy ~ 90° less humid

Recorded By A. Kelmsbacher Computer Entry By A. Kelmsbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapham Crk

Retrieval Information:

Retrieved By:

BD/AK

Instrument # SEA 1 Date 10-15-2018 Time 12:20Barometric Pressure 761.0 mmHg pH7 (mv) 62.7 pH 10 / 4 (mv) 71.2Battery Voltage 7.8 Turbidity wiper parked 180° ☒ Y ☐ N ODO ☒ Y ☐ NPost Calibration Date 10-15-2018 Cond. Cell Constant 5.0397 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>24.3</u>	<u>50.00</u>	<u>7.0</u>	<u>10.0</u>	<u>4.0</u>	<u>100</u>	<u>0.0</u>	<u>0.0</u>	<u>126.0</u>
Measured	<u>24.6</u>	<u>49.93</u>	<u>5.34</u>	<u>5.18</u>	<u>5.19</u>	<u>100.2</u>	<u>-0.005</u>	<u>-0.2</u>	<u> </u>

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: NODO Probe: N pH Probe: N Turbidity: N

Comments:

High incoming tide
Partly Cloudy
~ 88°

File Name CC09242018

Any Probe Malfunctions

☒ Y ☐ N

If Y, please describe above

pH probe failure →

Download File ☒ Y ☐ NDate 10-15-2018 Initials AKSent Datafile ☒ Y ☐ NDate 10-16-2018 Initials AKSent Datasheet ☒ Y ☐ NDate 10-16-2018 Initials AK

glass
bulb
found
broken
@
post
cal

Recorded By: AKalmbacherComputer Entry By: AKalmbacherCertified By:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

~~boldly "X" the box if there is qualified data on this page.~~

Meter ID:

SEA 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 10-4-2018

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kalmbacher	9-24-18	0825	24.4	8.35	8.35	100		10201	P/F	L/F
ICV			0828	24.4	8.35	8.36	100.1		1.0201	(P)F	(L)F
CCV	Kalmbacher	10-15-18	1500	24.6	8.32	8.34	100.2		1.0201	(P)F	(L)F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Kalmbacher	9-24-18	0830	170720C	8/2018	50,000	50,000	P/F	L/F
ICV			0853	322413	9/2018	1,413	1,452	(P)F	(L)F
CCV	Kalmbacher	10-15-18	1504	170720C	3/2019*	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kalmbacher	9-24-18	0855	2803E45	3/2020	7.0	6.99	-56.5	P/F	L/F
Calibr.			0858	2803D38	3/2020	4.0	3.99	142.2	P/F	L/F
Calibr.			0902	2712B55	6/2019	10.0	9.96	202.7	P/F	L/F
ICV			0905	2803E45	3/2020	7.0	7.04	-35.1	(P)F	(L)F
CCV	Kalmbacher	10-15-18	1508	2803E45	3/2020	7.0	5.34	62.7	(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 10 166.2, slope from 4 to 7 178.7 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? (Yes) No If yes, list date of last quarterly depth verification 10-4-2018

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	Kalmbacher	9-24-18	0910	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:

* Cond. Std. recertified for 50,000 μ hos / pH probe broken upon retrieval