

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 12-21-2017

QC'd By

Battery Voltage 12.3 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 1 Free memory (days) 167 Battery Life (days) 117

Barometric Pressure pH7 (mv) -23.2 pH10/4 (mv) -193.3/194.3

Conductivity Cell Constant 5.0973 ODO Gain 1.0862 pH Slope 170.1

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.33	50.00	7.00	10.00	4.00	100.0	0.00	0.0	126.0
Measured	22.44	50.00	7.04	9.99	4.02	100.5	0.00	0.1	121.6
Calibrate		50.00	7.00	9.98	4.00	100.3	0.00	0.0	126.0

Start Time (Sonde) 09:00

File Name CC12212017 Start Date 12-21-2017 Start Time (Actual) 09:00

Deployment Information

Deployed By BD/AK

Instrument # JEA1 Date 12-21-2017 Time 0950

Notes

High Tide, Calm, no wind mid 70s
Outgoing tideSite Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / TS ☐ Other ☐

Observation Description

Recorded By A. Kalmbacher Computer Entry By A. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clapboard Crk

Retrieval Information:

Retrieved By:

PO/AK

Instrument # JEAI Date 1-22-2018 Time 11:18Barometric Pressure 765.7 mmHg pH7 (mv) -22.0 pH 10 / 4 (mv) -192.2 / 154.2Battery Voltage 10.5 Turbidity wiper parked 180° ☒ Y / ☐ N ODO ☒ Y / ☐ NPost Calibration Date 1-22-2018 Cond. Cell Constant 5.0973 pH Slope 170.2 / 176.2

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.94	50.00	7.00	10.0	4.00	100	0.0	0.0	
Measured	23.03	50.05	7.03	9.98	3.97	100	-0.03	1.7	N/A

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: N Temp/Cond: NODO Probe: N pH Probe: N Turbidity: N

Comments:

Warm 77° High Tide
Light breeze

File Name CC12212017

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

DO probe - Sweeper malfunction?

Download File ☐ Y / ☐ NDate 1-22-2018 Initials AKSent Datafile ☐ Y / ☐ NDate 1-23-2018 Initials AKSent Datasheet ☐ Y / ☐ NDate 1-23-2018 Initials AKRecorded By: AKalmbacherComputer Entry By: AKalmbacher

Certified By: _____

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

Boldly "X" this box if there is 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.

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

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

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.	<u>A Kalmbacher</u>	<u>12-21-17</u>	<u>0805</u>	<u>22.4</u>	<u>8.67</u>	<u>8.67</u>	<u>100.3</u>	<u>—</u>	<u>1.0882</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>0809</u>	<u>22.5</u>	<u>8.66</u>	<u>8.68</u>	<u>100.5</u>	<u>—</u>	<u>1.0882</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>A Kalmbacher</u>	<u>1-22-18</u>	<u>1320</u>	<u>23.7</u>	<u>8.46</u>	<u>8.46</u>	<u>100</u>		<u>1.0882</u>	<u>P/F</u>	<u>L/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

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; 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.	<u>A Kalmbacher</u>	<u>12-19-17</u>	<u>1335</u>	<u>1707206</u>	<u>3/2018</u>	<u>50,000</u>	<u>50,000</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>1336</u>	<u>" "</u>	<u>" "</u>	<u>50,000</u>	<u>50,000</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1339</u>	<u>1124820</u>	<u>6/2018</u>	<u>24.820</u>	<u>25.410</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>A Kalmbacher</u>	<u>12-22-18</u>	<u>1325</u>			<u>50,000</u>	<u>50,050</u>	<u>P/F</u>	<u>L/F</u>

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.	<u>A Kalmbacher</u>	<u>12-19-17</u>	<u>1340</u>	<u>2708360</u>	<u>7/2019</u>	<u>7.0</u>	<u>7.00</u>	<u>-23.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>1343</u>	<u>2710816</u>	<u>9/2019</u>	<u>4.0</u>	<u>4.00</u>	<u>154.3</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>1345</u>	<u>27060317</u>	<u>12/2018</u>	<u>10.0</u>	<u>9.99</u>	<u>-193.3</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>1348</u>	<u>2708360</u>	<u>7/2019</u>	<u>7.0</u>	<u>7.04</u>	<u>-22.6</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>A Kalmbacher</u>	<u>01-22-18</u>	<u>1330</u>	<u>27060317</u>	<u>12/2018</u>	<u>10.00</u>	<u>9.98</u>	<u>-192.2</u>	<u>P/F</u>	<u>L/F</u>
CCV									<u>P/F</u>	<u>L/F</u>

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 10 170.1, slope from 4 to 7 177.5 (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

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	<u>A Kalmbacher</u>	<u>12-19-17</u>	<u>1400</u>	<u>0.00</u>	<u>0.00</u>	<u>P/F</u>	<u>L/F</u>

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

COMMENTS:

Probes virtually clean - 2 small crabs in yard