

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 02-25-2019

QC'd By

Battery Voltage

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 13.0

Free memory (days) 132

Battery Life (days) 117

Barometric Pressure 763.5

pH7 (mv) -21.3

pH10/4 (mv) -178/129.2

Conductivity Cell Constant 4.92093

ODO Gain 1.0017

pH Slope 150.5/157.2

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.5	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	22.0	50.01	6.98	9.90	3.98	1013	0.0	-1.3	129.8
Calibrate		50.00	6.97	9.98	4.0	100.5	0.0	0.0	124.8

Start Time (Sonde) 10:45

File Name CC02252019 Start Date 02-25-2019 Start Time (Actual) 10:45

Deployment Information

Deployed By Po/AK

Instrument # SEA 2 Date 2-25-2019

Time 11:38

Notes

pH probe drifting / slope out of range - left probe on sonde because cal values passed // Need probe replacement!

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

Observation Description

High Tide, Incoming
Windy ~65°

Recorded By AKulmbacher Computer Entry By AKulmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Retrieval Information:

Retrieved By: RD/AK

Instrument # JEA 2 Date 3-18-2019 Time 12:50

Barometric Pressure 763.3 mmHg pH7 (mv) 12.4 pH 10 / 4 (mv) 143.5 / 12.4 173.9

Battery Voltage 11.7 Turbidity wiper parked 180° (Y) / N ODO (Y) / N

Post Calibration Date 3-18-2019 Cond. Cell Constant 4.9299 pH Slope 16.5 / 155.9

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.5	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	22.0	49.92	6.87	9.75	3.86	101.2	-0.14	0.1	—

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: N

ODO Probe: N pH Probe: N Turbidity: N

Comments:

Very swift Out going tide
Light chop mid 60's°
Partly cloudy

File Name CC02252019

Any Probe Malfunctions

(Y) / N

If Y, please describe above

pH probe
post cal off on 10

Download File

Y / N

Date 3-20-2019 Initials AK

Sent Datafile

Y / N

Date 3-21-2019 Initials AK

Sent Datasheet

Y / N

Date 3-21-2019 Initials AK

Recorded By: A. Kalmbacher

Computer Entry By: A. Kalmbacher

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: JE 2

RQ:

Project: Clapboard Crk

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.	<u>AKalmbacher</u>	<u>02-25-19</u>	<u>0835</u>	<u>22.1</u>	<u>763.5</u>	<u>8.72</u>	<u>8.74</u>	<u>100.5</u>		<u>1.00173</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>0838</u>	<u>22.2</u>	<u>763.5</u>	<u>8.70</u>	<u>8.80</u>	<u>101.3</u>		<u>1.00173</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>AKalmbacher</u>	<u>03-18-19</u>	<u>1600</u>	<u>22.5</u>	<u>763.3</u>	<u>8.66</u>	<u>8.74</u>	<u>101.2</u>		<u>1.00173</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 (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.	<u>AKalmbacher</u>	<u>02-25-19</u>	<u>0840</u>	<u>180919</u>	<u>9/2019</u>	<u>50,000</u>	<u>50,000</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>0844</u>	<u>1024820</u>	<u>9/2019</u>	<u>1024,820</u>	<u>24,600</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>AKalmbacher</u>	<u>03-18-19</u>	<u>1605</u>	<u>180919</u>	<u>9/2019</u>	<u>50,000</u>	<u>49,920</u>	<u>P/F</u>	<u>L/F</u>
CCV								<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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>02-25-19</u>	<u>0850</u>	<u>2811E61</u>	<u>11/2020</u>	<u>7.</u>	<u>22.8</u>	<u>6.97</u>	<u>-2.3</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>0854</u>	<u>2811D47</u>	<u>11/2020</u>	<u>4.</u>	<u>22.9</u>	<u>4.00</u>	<u>129.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>0858</u>	<u>2810F55</u>	<u>04/2020</u>	<u>10.</u>	<u>22.9</u>	<u>9.98</u>	<u>-178.5</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>0902</u>	<u>2811E61</u>	<u>11/2020</u>	<u>7.0</u>	<u>22.9</u>	<u>6.98</u>	<u>-20.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>AKalmbacher</u>	<u>03-18-19</u>	<u>1610</u>	<u>2810F55</u>	<u>04/2020</u>	<u>10.0</u>	<u>22.5</u>	<u>9.75</u>	<u>-143.5</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 10 157.2, slope from 4 to 7 150.5 (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	<u>AKalmbacher</u>	<u>2-25</u>	<u>0930</u>	<u>0.00</u>	<u>0.0</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:

* pH slope off quite a bit - pH values drifting - did not have a replacement probe so left on sonde for deployment