

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clipboard

Calibration QC Pre-Deployment

Date 2/19/18

QC'd By

Battery Voltage 12.8 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 N/A Free memory (days) 133 Battery Life (days) 117

Barometric Pressure 770.0 pH7 (mv) -22.5 pH10/4 (mv) 1946/154.1

Conductivity Cell Constant 5.0626 ODO Gain 1.02 pH Slope 1/21/176.5

Parameter	Temp (C)	Sp. Cond. µS	pH7	pH4	pH10	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.89	1000	7.0	4.0	10.0	100	0.0	0.0	126
Measured	23.10	1000	7.05	3.97	9.92	101.7	0.0	-1.1	112.9
Calibrate		1000	7.0	4.0	9.99	101.4	0.0	0.0	126

File Name CC21918 JEA2 Start Date 2/19/18 Start Time (Sonde) 11:00 Start Time (Actual) 11:00

Deployment Information

Deployed By B. Davis

Instrument # JEA2 Date 2/19/18 Time 10:55

Notes

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

Observation Description

Rising Tide Dense Fog.

Recorded By B. Davis Computer Entry By A. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument #

JEA 2

Date

3-22-2018

Time

2:40

Barometric Pressure

768

mmHg

pH 7 (mv)

-23.2

pH 10 / 4 (mv)

-195.0 / 154.8

Battery Voltage

12.4

Turbidity wiper parked 180°

☒ Y / ☐ N

ODO

☒ Y / ☐ N

Post Calibration Date

3-22-2018

Cond. Cell Constant

5.0626

pH Slope

178.0 / 171.8

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	21.3	50.00	7.0	10.00	4.0	100	0.0	0.0	126
Measured	21.4	49.81	7.11	9.99	4.2	101.7	0.179	0.6	—

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:

N

External Screen:

N

Temp/Cond:

N

ODO Probe:

N

pH Probe:

N

Turbidity:

N

Comments:

Slight wind - partly cloudy
outgoing tide ~65°

Do Post cal took a long time to stabilize

File Name

CC02192018

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

Download File

☒ Y / ☐ N

Date

3-23-2018

Initials

AK

Sent Datafile

☒ Y / ☐ N

Date

3-23-2018

Initials

AK

Sent Datasheet

☒ Y / ☐ N

Date

3-23-2018

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 is qualified data on this name.

Meter ID:

JEA2

RQ-

Project:

JEA2

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

1/10/18

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.	B-V	2/19	808	23.1	8.56	8.68	101.4		1.02	P/F	L/F
ICV			812	23.1	8.56	8.71	101.7		1.02	P/F	L/F
CCV	A. Kumbacher	3-22-18	1615	22.0	8.74					P/F	L/F
CCV				21.4	8.84	8.98	101.7		1.01	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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

(P) (L) *

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	B-V	2/19	821	171129A	12/18	1000	1000	P/F	L/F
ICV			829	170720C	8/18	50,000	47,680	P/F	L/F
CCV	A. Kumbacher	3-22-18	1630	170726C	8/2018	50,000		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.	B-V	2/19	837	2709B15	9/19	7.0	7.0	-225	P/F	L/F
Calibr.			850	2711517	10/19	4.0	4.0	154.1	P/F	L/F
Calibr.			856	2708A21	1/19	10.0	9.99	-194.6	P/F	L/F
ICV			901	2709B15	9/19	7.0	7.04	-229	P/F	L/F
CCV	A. Kumbacher	3-22-18	1635	2708A21	1/2019	10.0	9.99	-195.0	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 -172.1 , slope from 4 to 7 176.5 (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 1/10/18

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	B-V	2/19/18	920	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:

Had trouble with RDX probe - took a long time to stabilize - changed readings several times, finally stabilized

in range (due to extended deployment?)
out twice as long as usual

Form effective October 1, 2017