

## YSI Datasonde Datasheet v1.1 - Deployment

SECN Coastal Water Quality Monitoring

Station Name

Claphoard Creek

## Calibration QC Pre-Deployment

Date 4-2-2019

QC'd By

Battery Voltage 11.8 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 Free memory (days) 110 Battery Life (days) 116

Barometric Pressure 758.8 pH7 (mv) pH10/4 (mv)

Conductivity Cell Constant 4.9299 ODO Gain 1.00919 pH Slope

| Parameter | Temp (C) | Sp. Cond. | pH7 | pH10 | pH4 | ODO % | Depth (m) | Turbidity (L) | Turbidity (H) |
|-----------|----------|-----------|-----|------|-----|-------|-----------|---------------|---------------|
| Standard  | 23.2     | 50.0      | 7.0 | 10.0 | 4.0 | 100   | 0.0       | 0.0           | 126.0         |
| Measured  | 23.2     | 50.00     |     |      |     | 100.3 | 0.0       | 0.1           | 125.6         |
| Calibrate |          | 50.00     |     |      |     | 99.9  | 0.0       | 0.0           | 125.9         |

Start Time (Sonde) 12:00 8:00

File Name 004032019 Start Date 4-4-2019 Start Time (Actual) 1:00 9:00

## Deployment Information

Deployed By BD/AK

Instrument # SEA2 Date 4-4-2019

Time

## Notes

We received a new certified thermometer - sonde + thermometer are finally matching!

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

## Observation Description NOTES:

Had to deploy without pH probe - would not calibrate - had downward drift, problem with sonde port, probe is brand new

Recorded By AKalubacher Computer Entry By AKalubacher

Certified By

## YSI Datasonde Datasheet v1.1 - Retrieval

## SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument # SEA 2 Date 4-22-2019 Time 10:38 (sonde time)Barometric Pressure 764.5 mmHg pH 7 (mv)        pH 10 / 4 (mv)       Battery Voltage 11.3 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 4-22-2019 Cond. Cell Constant        pH Slope       

| Parameter | Temp (C)    | Sp. Cond.    | pH 7 | pH 10 | pH 4 | ODO %        | Depth (m)   | Turbidity (L) | Turbidity (H) |
|-----------|-------------|--------------|------|-------|------|--------------|-------------|---------------|---------------|
| Standard  | <u>23.4</u> | <u>50.00</u> |      |       |      | <u>100</u>   | <u>0.0</u>  | <u>0.0</u>    | <u>126.0</u>  |
| Measured  | <u>23.7</u> | <u>49.56</u> |      |       |      | <u>101.5</u> | <u>0.02</u> | <u>3.3</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: N External Screen: N Temp/Cond: NODO Probe: N pH Probe: N Turbidity: N

Comments:

Calm, high tide Blue skies ~ 5mph wind  
70+°

File Name CC04032019

Any Probe Malfunctions

(Y) / N

If Y, please describe above

No pH probe

Download File

(Y) / NDate 4-22-2019 Initials AK

Sent Datafile

(Y) / NDate 4-22-2019 Initials AK

Sent Datasheet

(Y) / NDate 4-22-2019 Initials AK

Recorded By:

AKalmbacher

Computer 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 are qualified data on this page.

Meter ID: **SEA2**

RQ-

Project:

**Clapham 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

| 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    | P/F        | L/F        |
|-----------------|--------------------|---------------|-------------|-------------|-----------------|-----------------|-----------------|--------------|--------------|---------------|------------|------------|
| Calibr.         | <b>AKalmbacher</b> | <b>4-2-19</b> | <b>0820</b> | <b>22.1</b> | <b>758.8</b>    | <b>8.72</b>     | <b>8.71</b>     | <b>99.9</b>  |              | <b>1.0019</b> | <b>P/F</b> | <b>L/F</b> |
| ICV             |                    |               | <b>0825</b> | <b>22.2</b> | <b>758.8</b>    | <b>8.70</b>     | <b>8.73</b>     | <b>100.3</b> |              | <b>1.0099</b> | <b>P/F</b> | <b>L/F</b> |
| CCV             | <b>AKalmbacher</b> | <b>4-4-19</b> | <b>1447</b> | <b>25.8</b> | <b>764.5</b>    | <b>8.2</b>      | <b>8.27</b>     | <b>101.5</b> |              | <b>1.0091</b> | <b>P/F</b> | <b>L/F</b> |
| CCV             |                    |               |             |             |                 |                 |                 |              |              |               | <b>P/F</b> | <b>L/F</b> |

DO Acceptance criteria from Table  $\pm 0.3$  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 #          | Explr. Date   | Standard $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | P/F        | L/F        |
|---------------------|--------------------|----------------|-------------|----------------|---------------|------------------------|-----------------------------|------------|------------|
| Calibr.             | <b>AKalmbacher</b> | <b>4-2-19</b>  | <b>0830</b> | <b>180919</b>  | <b>9/2019</b> | <b>50,000</b>          | <b>50,000</b>               | <b>P/F</b> | <b>L/F</b> |
| ICV                 |                    |                | <b>0832</b> | <b>0424826</b> | <b>6/2020</b> | <b>24,820</b>          | <b>24,590</b>               | <b>P/F</b> | <b>L/F</b> |
| CCV                 | <b>AKalmbacher</b> | <b>4-22-19</b> | <b>1450</b> | <b>180919</b>  | <b>9/2019</b> | <b>50,000</b>          | <b>49,560</b>               | <b>P/F</b> | <b>L/F</b> |
| CCV                 |                    |                |             |                |               |                        |                             | <b>P/F</b> | <b>L/F</b> |

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name               | Date          | Time CT-ET  | Lot # | Explr. Date | pH Buffer SU | Temp °C | Meter reading SU | mV            | P/F        | L/F        |
|--------------------|--------------------|---------------|-------------|-------|-------------|--------------|---------|------------------|---------------|------------|------------|
| Calibr.            | <b>AKalmbacher</b> | <b>4-2-19</b> | <b>0840</b> |       |             | <b>7.</b>    |         | <b>6.96</b>      | <b>22.2</b>   | <b>P/F</b> | <b>L/F</b> |
| Calibr.            |                    |               |             |       |             | <b>4.</b>    |         | <b>3.98</b>      | <b>160.4</b>  | <b>P/F</b> | <b>L/F</b> |
| Calibr.            |                    |               |             |       |             | <b>10.</b>   |         | <b>9.91</b>      | <b>-135.0</b> | <b>P/F</b> | <b>L/F</b> |
| ICV                |                    |               |             |       |             |              |         |                  |               | <b>P/F</b> | <b>L/F</b> |
| CCV                |                    |               |             |       |             |              |         |                  |               | <b>P/F</b> | <b>L/F</b> |
| CCV                |                    |               |             |       |             |              |         |                  |               | <b>P/F</b> | <b>L/F</b> |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 \_\_\_\_\_, slope from 4 to 7 \_\_\_\_\_ (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 | P/F        | L/F        |
|----------------------------------------|--------------------|---------------|-------------|-------------------------------------------|-------------------|------------|------------|
| Pressure mode in air                   | <b>AKalmbacher</b> | <b>4-2-19</b> | <b>0835</b> | <b>0.00</b>                               | <b>0.0</b>        | <b>P/F</b> | <b>L/F</b> |

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

COMMENTS: