

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 1/9/2017

QC'd By _____

Battery Voltage 12.3Turbidity Wiper Replaced Y / NWiper parking 180° Y / NReplace Batteries Y / NODO Wiper Replaced Y / NWiper parking 180° Y / N

If Yes, New Voltage _____

Free memory (days) 151Battery Life (days) 117Barometric Pressure 760

pH7 (mv) _____

pH10/4 (mv) _____

Conductivity Cell Constant 4.89523ODO Gain 1.0252

pH Slope _____

Parameter	Temp (C)	Sp. Cond. m/S	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	19.6	50.00				100.0	0.0	0.0	12.6
Measured	19.4	50.02				100.1		125.3	157.5
Calibrate	19.5	50.00				100.2	0.0	0.0	125.5

Start Time (Sonde) 12:00File Name CC090917Start Date 01/09/2017Start Time (Actual) 12:00

Deployment Information

Deployed By AK/BDInstrument # SEA 1Date 01/09/2017Time 11:50

Notes

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

Observation Description

Recorded By A. Kalmbacher Computer Entry By A. Kalmbacher

Certified By _____

*
129.9
* changed
Turb
probe

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clapboard Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument # SEA 1 Date 1-25-2017 Time 11:20Barometric Pressure 760 mmHg pH7 (mv) / pH 10 / 4 (mv) /Battery Voltage 12.3 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 1-25-2017 Cond. Cell Constant 4.8952 pH Slope /

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>19.5</u>	<u>50.00ms/cm</u>				<u>100</u>	<u>0.0</u>	<u>0.0</u>	<u>126.0</u>
Measured	<u>19.0</u>	<u>49.66</u>				<u>97</u>	<u>-0.2</u>	<u>-4.7</u>	<u>127.5</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: _____ External Screen: _____ Temp/Cond: _____

ODO Probe: _____ pH Probe: _____ Turbidity: _____

Comments:

Port caps : L / E (crab)

Clear sky, slight breeze
Low 70'sFile Name CC010917

Any Probe Malfunctions

Y / N

If Y, please describe above

Download File	<u>Y</u> / N	Date <u>1-25-2017</u>	Initials <u>AK</u>
Sent Datafile	<u>Y</u> / N	Date <u>1-25-2017</u>	Initials <u>AK</u>
Sent Datasheet	<u>Y</u> / N	Date <u>1-25-2017</u>	Initials <u>AK</u>

Recorded By: A. KalmbacherComputer 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 page.

Meter JE #2 RQ- Project Chapboard Creek

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 03/04/2016

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.	A. Kalmbacher	1/25/17	0820	22.9	8.59	8.59	100	—	1.078		
ICV			0835	23.8	8.44	8.44	100	—	1.078	P	L
CCV	A. Kalmbacher	2-14-17	1625	23.3	8.53	8.46	99.4	—	1.078	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	A. Kalmbacher	1-25-17	0825	161101C	11/2017	50,000	50,007		
ICV			0828	1298116	4/2017	12,900	13,013	P	L
CCV	A. Kalmbacher	2-14-17	1635	161101C		50,600	49,860	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

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.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	A. Kalmbacher	1-25-17	0840	0.000	0.00	P	L

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

AK 2-14-17 -0.029

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

RQ-

Project

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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.	Brian Davis	2/14/17	736	19.6	9.16	9.16	100	/	/	P	L
ICV			737	19.7	9.16	9.16	100.1	/	/	P	L
CCV					9.14			/	/		
CCV	A. Kalmbacher	2-27-17	1335	X Probe		3.48	64			F	

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Brian Davis	2/14/17	743			50,000	50,000	P	L
ICV			750			12,900	13,220	P	L
CCV	A. Kalmbacher	2-27-17	1340	1611016	1/2017	50,000	27,240		F
CCV									

Report specific conductance as a whole number with no decimal figure.

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.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	B. Davis	2/14/17	808	0.000	0.00	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

YSI Datasonde Datasheet v1.1

SECN Coastal Water Quality Monitoring

Deploy

Station Name

Clapham Creek

Calibration QC Pre-Deployment

Date 1-25-2017

QC'd By

Battery Voltage 12.4

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) 145

Battery Life (days) 117

Barometric Pressure 760

pH7 (mv)

pH10/4 (mv)

Conductivity Cell Constant 5.03459

ODO Gain 1.078

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.9	50.000				100	0.0		
Measured		50.007				100	0.0		
Calibrate		50.000				100	0.0		

CC01252017

Start Time (Sonde) 10:30

File Name CC012517

Start Date 01-25-2017

Start Time (Actual)

Deployment Information

Deployed By BD/AR

Instrument # JEA 2

Date 1-25-2017

Time 11:20

Notes

Low tide Clear Skies, Slight breeze
Low 70sSite 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 - Retrieve

Station Name

SECN Coastal Water Quality Monitoring

Clayboard Ck

Retrieval Information:

Retrieved By: BD/AKInstrument # SEA #2 Date 2-14-2017 Time _____Barometric Pressure 760 mmHg pH7 (mv) pH 10 / 4 (mv) Battery Voltage 12.3 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 2-14-2017 Cond. Cell Constant 5.03459 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>23.3</u>	<u>50.00</u>				<u>160</u>	<u>0.0</u>		
Measured		<u>49.86</u>				<u>99.4</u>	<u>-0.029</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:

Partly Cloudy, ~70°
LOTS OF NO-SEE-UM GNATS

File Name CC012517
CC01252017Any Probe Malfunctions Y / N

If Y, please describe above

Download File Y / NDate 2-15-2017 Initials AKSent Datafile Y / NDate 2-16-2017 Initials AKSent Datasheet Y / NDate 2-16-2017 Initials AKRecorded By: A. KalmbacherComputer Entry By: A. Kalmbacher

Certified By _____

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 2/14/17

QC'd By _____

Battery Voltage 12.3 Turbidity Wiper Replaced Y/N Wiper parking 180° Y/NReplace Batteries Y/N ODO Wiper Replaced Y/N Wiper parking 180° Y/NIf Yes, New Voltage _____ Free memory (days) 135 Battery Life (days) 117Barometric Pressure 760 pH7 (mv) — pH10/4 (mv) —Conductivity Cell Constant 4.99652 ODO Gain 1.050 pH Slope —

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>19.7</u>	<u>50000</u>				<u>100</u>	<u>0.0</u>	<u>0.0</u>	<u>126</u>
Measured		<u>49480</u>				<u>100</u>	<u>0.021</u>	<u>-6.4</u>	<u>134.2</u>
Calibrate		<u>50000</u>				<u>100</u>	<u>0.0</u>	<u>0.0</u>	<u>126.5</u>

Start Time (Sonde) 9:00File Name CC02/4/17 Start Date 2/14/17 Start Time (Actual) 9:00

Deployment Information

Deployed By PO/ARInstrument # SEA1 Date 2-14-17Time 09:50

Notes

Partly Cloudy, ~ 70°
LOTS OF NO-SEE-UM GNATS

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

Observation Description

Recorded By B. Davis Computer Entry By A. Kalmbacher

Certified By _____

Station Name

Clapboard Creek

Retrieved By:

AK/B1

760

12.4

2-27-2017

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	25.0	50.00				100	0.0	0.0	
Measured	50.2	27.24				64	0.07	1.0	

Comments: .

TEMP. / CONDUCTIVITY	Windy, Partly Cloudy
* PROBE FAILURE (also affected DO)	Warm mid 70's

Any Probe Malfunctions

Date 2-27-2017 Initials AK

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 **JEA #2**

RQ-

Project **Clipboard**

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 **L-C**

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.	Brian Lewis	2/27/17	803	22.0	8.74	8.75	100.1	-	-	P	L
ICV	↓	↓	805	22.0	8.74	8.74	99.9	-	-	P	L
CCV	AKalmbacher	3-20-17	1522	22.0	8.74	8.57	98.1			P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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.	Brian Lewis	2/27/17	810	161101C	11/17	50,000	50,000	P	L
ICV	↓	↓	815	1298116	4/17	12,900	13,070	P	L
CCV	AKalmbacher	3-20-17	1530	161101C	11/17	50,000	49,270	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

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.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clipboard Creek

Calibration QC Pre-Deployment

Date 2/27/17

QC'd By J. Davis

Battery Voltage 12.6 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) 125 Battery Life (days) 117

Barometric Pressure 760 pH7 (mv) pH10/4 (mv)

Conductivity Cell Constant ODO Gain pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.0	50,000				—		0.0	126
Measured	↓	49,840				101.4		-0.1	119.6
Calibrate	↓	50,000				100.1		0.0	125.8

Start Time (Sonde) 1100

File Name CC022717 Start Date 2/27/17 Start Time (Actual)

Deployment Information

Deployed By BS/PD

Instrument # JEA 2 Date 2-27-17

Time 1110

Notes

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

Observation Description

Recorded By B. Davis Computer Entry By A. Kulmbacher

Certified By

YSI Datasonde Datasheet v1.1 - Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Cl-plateau Creek

Retrieval Information:

Retrieved By:

AK/JP

Instrument #

JEA2

Date

3-20-2017

Time

12:48 (sonde time)

Barometric Pressure

760

mmHg

pH7 (mv)

pH 10 / 4 (mv)

Battery Voltage

12.5

Turbidity wiper parked 180°

Y N

ODO

Y N

Post Calibration Date

3-20-2017

Cond. Cell Constant

5.06587

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.07	50.00				100	0.00	0.00	
Measured		49.27				98.1	0.04	273.2	

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/A

External Screen:

N/A

Temp/Cond:

M-L

ODO Probe:

M-L*

pH Probe:

N/A

Turbidity:

M-L*

growth may have covered optics - fairly long and filamentous

Comments:

Clear Skies . Slight Breeze

Low 70's

Incoming Tide

Sweeper on optical DO not turning 2 revolutions then reversing - it is only making one revolution and not

File Name

CC022717

Any Probe Malfunctions

Y/N

parking

If Y, please describe above

other than

180° DO Sweeper

Download File

Y / N

Date

3-20-2017

Initials

AK

Sent Datafile

Y / N

Date

Initials

Sent Datasheet

Y / N

Date

Initials

Recorded By:

A. Kalmbacher

Computer Entry By:

A. Kalmbacher

Certified By: