

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

SEA

RQ-

Project

Clayboard Crk

- 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.	AKalmbacher	3-20-17	1220	18.05	9.46	9.45	100.	N/A	0.4844	P	L
ICV			1245	18.5	9.37	9.20	98.3		0.4844	P	L
CCV											
CCV	AKalmbacher	4-3-17	1325	21.5	8.82	8.76	99.2	N/A	1.04844	P	L

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 #	Explr. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	AKalmbacher	3-20-17	1230			50,000	50,040	P	L
ICV						58,640	59,310	P	L
CCV						59,000	49,370	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 #	Explr. 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 (Dally)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	AKalmbacher	3-20-2017	1225	0.000	0.000	P	L

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

Chapboard Creek

Calibration QC Pre-Deployment

Date 3/26/2017

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) 121 Battery Life (days) 117

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

Conductivity Cell Constant 481921 ODO Gain 0.4844 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	18.05	50.00				100	0.00	0.00	126
Measured		50.04				100	0.00	-0.4	122.1
Calibrate		50.00				100	0.00	-0.5	122.1

Start Time (Sonde) 12:30 EST

File Name CC032017 Start Date 3-20-2017 Start Time (Actual) 13:30

Deployment Information

Deployed By SP/AR

Instrument # JEA1 Date 3-20-2017

Time 12:50 (Sonde time)

1:50 DST

Notes

Clear Skies, Low 70's Incoming Tide

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

Observation Description

Recorded By K. Kumbacher Computer Entry By N/A

Certified By

YSI Datasonde Datasheet v1.1 - Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Crk

Retrieval Information:

Retrieved By:

BD/AK

Instrument #

JEA 1

Date

4-3-2017

Time

11:07

Barometric Pressure

760

mmHg

pH7 (mv)

pH 10 / 4 (mv)

Battery Voltage

11.0

Turbidity wiper parked 180°

Y/N

ODO

Y/N

Post Calibration Date

4-3-2017

Cond. Cell Constant

4.81921

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.0	50.06				100	0.0	0	
Measured	21.5	49.37				99.2	-0.115	222.0	

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:

L/A

Temp/Cond:

L/A

ODO Probe:

L/A

pH Probe:

N

Turbidity:

L/A

Comments:

Cloudy, Warm ~85°
Rain expected

DO + Turbidity sweepers
have long filamentous algae
attached - may have obscured
optics
Turb. sweepers not reversing for

File Name

CC03202017

Any Probe Malfunctions

Y/N

Final sweep 180°

If Y, please describe above

Other than

Download File

Y/N

Date

Initials

Sent Datafile

Y/N

Date

Initials

Sent Datasheet

Y/N

Date

Initials

SONDE DID NOT LOG ANY DATA
At Post Cal

Recorded By:

A. Kalmbacher

Computer Entry By:

N/A

Certified By

Not set to log? Screen did ask
"Stop logging?"
Run overnight test on 4/3/17 - Sonde did
log data and seems to have run normally

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 SEA 2 RQ- Project Clapham 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	4-3-17	0830	23.5	8.49	8.50	100		1.11053		
ICV			0910	23.0	8.57	8.58	100		1.11053	P	L
CCV	A. Kalmbacher	4-17-17	1245	23.4	8.51	8.74	103.1		1.11053	P	L
CCV				21.3	8.86	8.86	100		1.11053	P	L

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	4-3-17	0835	1611016	11/17	50,000	50,000		
ICV			0838	1611016	11/17	50,000	50,000	P	L
CCV			0840	14132016	6/17	1.413	1.558	P	L
CCV	A. Kalmbacher	4-17-17	1250	1611016	11/17	50,000	49.880	P	L

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 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	4-3-2017	0910	0.000	0.00	P	L

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

post cal 0.06

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 4-3-2017QC'd By Battery Voltage 12.9 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) 107 Battery Life (days) 117Barometric Pressure 760 pH7 (mv) pH10/4 (mv) Conductivity Cell Constant 5.06587 ODO Gain 1.11053 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.5	50.00				100	0.00	0.00	126.0
Measured	23.5	50.00				100	0.00	0.00	126.3
Calibrate		50.00				100	0.00	0.00	126.0

Start Time (Sonde) 9:00File Name CC04032017 Start Date 4-3-2017 Start Time (Actual) 10:00 DST

Deployment Information

Deployed By BD/AKInstrument # SEA 2 Date 4-3-2017 Time 11:09

Notes

Cloudy, Windy ~ 85°
Rain expected

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

Observation Description

Recorded By A. Kalmbacher Computer Entry By A. KalmbacherCertified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

CBC

Retrieval Information:

Retrieved By:

BD/AK

Instrument #

JEA 2

Date

4-17-2017

Time

9:40 (sonde time EST)

Barometric Pressure

760

mmHg

pH7 (mv)

/

pH 10 / 4 (mv)

/

Battery Voltage

12.3

Turbidity wiper parked 180°

(Y/N)

ODO

(Y/N)

Post Calibration Date

4-17-2017

Cond. Cell Constant

5.04102

pH Slope

/

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.4	50.00				160	0.00	0.0	
Measured		49.88				163	0.05	-0.9	

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:

very slight

pH Probe:

N

Turbidity:

very slight

Comments:

Warm, clear slight breeze ~ 80°

File Name

CC04032017

Any Probe Malfunctions

Y/(N)

If Y, please describe above

Download File

(Y/N)

Date

4-17-2017

Initials

AK

Sent Datafile

(Y/N)

Date

4-17-2017

Initials

AK

Sent Datasheet

(Y/N)

Date

4-17-2017

Initials

AK

Recorded By:

A. Kalmbacher

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 is qualified data on this page.

Meter

~~3~~ ^{JEAI}

RQ-

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Project

Clapboard Ck

- 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.	A. Kalmbacher	4-17-17	0815	20.8	8.95	8.95	100.2	—	1.0455		
ICV			0840	20.8	8.95	8.92	99.5	—	1.0455	P	L
CCV	A. Kalmbacher	5-2-17	1345	21.3	8.86	8.86	100		1.0455	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	4-17-17	0819	161101C	11/2017	50,000	50,010		
ICV			0822	0358640	12/2017	58,640	59,700	P	L
CCV	A. Kalmbacher	5-2-17	1350	161101C	11/2017	50,000	50,250	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	A. Kalmbacher	4-17-17	0825	0.000	0.00	P	L

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

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 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.											
ICV											
CCV											
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 #	Explr. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.									
ICV									
CCV									
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 #	Explr. 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 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapboard GK

Retrieval Information:

Retrieved By:

BD/AK

Instrument # SEA 1 Date 5-2-2017 Time 10:10 DSTBarometric Pressure 760 mmHg pH7 (mv) / pH 10 / 4 (mv) /Battery Voltage 10.2 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 5-2-2017 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>23.8</u>	<u>50.00</u>	/			<u>100.0</u>	<u>0.0</u>	<u>0.0</u>	
Measured	<u>21.8</u>	<u>50.25</u>				<u>100.1</u>	<u>-0.04</u>	<u>3.6</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, ~ 80°, windy
 Collected @ very low tide

File Name CC04172017

Any Probe Malfunctions

Y / N

If Y, please describe above

Download File

Y / NDate 5-2-2017

Initials

AK

Sent Datafile

Y / NDate 5-3-2017

Initials

AK

Sent Datasheet

Y / NDate 5-3-2017

Initials

AK

Recorded By:

A. Kalmbacher

Computer Entry By:

A. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 4-17-2017

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 Free memory (days) 120 Battery Life (days) 117

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

Conductivity Cell Constant 4.8649 ODO Gain 1.64555 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	20.8	50.00				100.0	0.00	0.0	126
Measured		50.03					0.00	0.2	124.6
Calibrate		50.01				100.2	0.00	0.2	124.3

Start Time (Sonde) 9:30

File Name CCOA172017 Start Date 4-17-2017 Start Time (Actual) 10:30

Deployment Information

Deployed By RD/AR

Instrument # JEA1 Date 4-17-2017

Time 9:00 - Sonde time EST

Notes

Warm, clear light breeze
~ 80°Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / TS ☐ Other ☐

Observation Description

Recorded By A. Kelmbacher Computer Entry By A. Kelmbacher

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 EA 2 RQ- Project Clapboard Ck

- 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 2/9/17

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>AKalmbacher</u>	<u>5-2-17</u>	<u>0815</u>	<u>23.5</u>	<u>8.49</u>	<u>8.49</u>	<u>100.0</u>		<u>1.0781</u>	<u>P</u>	<u>L</u>
ICV	<u>AKalmbacher</u>	<u>5-18-17</u>	<u>0755</u>	<u>23.7</u>	<u>8.44</u>	<u>8.37</u>	<u>99.3</u>		<u>1.0781</u>	<u>P</u>	<u>L</u>
CCV											
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.	<u>AKalmbacher</u>	<u>5-2-17</u>	<u>0820</u>			<u>50,000</u>	<u>50,000</u>	<u>P</u>	<u>L</u>
ICV						<u>58,640</u>	<u>59,380</u>	<u>P</u>	<u>L</u>
CCV						<u>50,000</u>	<u>50,020</u>	<u>P</u>	<u>L</u>
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.						<u>7.0</u>				
Calibr.						<u>4.0</u>				
Calibr.						<u>10.0</u>				
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 2/9/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>AKalmbacher</u>	<u>5-2-17</u>	<u>0830</u>	<u>0.000</u>	<u>0.001</u>	<u>P</u>	<u>L</u>

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

Clayboard Creek

Calibration QC Pre-Deployment

Date 5-2-2017

QC'd By

Battery Voltage 12.1

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) 92.9

Battery Life (days) 117

Barometric Pressure 746

pH7 (mv)

pH10/4 (mv)

Conductivity Cell Constant 5.65645

ODO Gain 1.0781

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.5	50.00				100	0.000	0.0	126
Measured	23.2	50.01				99.8	0.002	-0.6	124.9
Calibrate		50.00				100	0.001	0.0	125.8

Start Time (Sonde) 8:30

File Name CC05022017 Start Date 5-2-2017 Start Time (Actual) 9:30

Deployment Information

Deployed By BD/AK

Instrument # JEA 2 Date 5-2-2017

Time 9:15 sonde time

10:15 DST

Notes

Partly cloudy, warm, windy
Sonde exchanged @ low tide

Site 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

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Retrieval Information:

Retrieved By:

FO/AK

Instrument #

JEA 2

Date

5-17-2017

Time

0748 sonde time

0848 DST

Barometric Pressure

760

mmHg

pH7 (mv)

pH 10 / 4 (mv)

Battery Voltage

12.3

Turbidity wiper parked 180°

(Y) / N

ODO

Y / N

Post Calibration Date

5-18-2017

Cond. Cell Constant

5.05645

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.0	50.00				100	0.0	0.0	
Measured	23.7	50.02				99.3	0.004	-0.3	

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 Breeze, mid 80's, low tide

File Name

CC05022017

Any Probe Malfunctions

Y / (N)

If Y, please describe above

Download File

(Y) / N

Date

5-19-2017

Initials

AK

Sent Datafile

Y / N

Date

5-19-2017

Initials

AK

Sent Datasheet

Y / N

Date

5-19-2017

Initials

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 SEA 1 RQ- Project Clapham 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 _____

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>AKalmbacher</u>	<u>5-16-17</u>	<u>1510</u>	<u>21.8</u>	<u>8.77</u>	<u>8.77</u>	<u>99.9</u>	<u>—</u>	<u>1.05874</u>		
ICV			<u>1535</u>	<u>22.0</u>	<u>8.74</u>	<u>8.72</u>	<u>98.9</u>		<u>1.05874</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>6-2-17</u>	<u>1300</u>	<u>21.0</u>	<u>8.91</u>	<u>8.97</u>	<u>100.7</u>		<u>1.05874</u>	<u>P</u>	<u>L</u>
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.	<u>AKalmbacher</u>	<u>5-16-17</u>	<u>1515</u>	<u>161101C</u>	<u>11/2017</u>	<u>50.00</u>	<u>50.02</u>		
ICV				<u>0358640</u>	<u>12/2017</u>	<u>58.64</u>	<u>59.83</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>6-2-17</u>	<u>1305</u>	<u>161101C</u>	<u>11/2017</u>	<u>50.00</u>	<u>49.04</u>	<u>P</u>	<u>L</u>
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.						<u>7.0</u>				
Calibr.						<u>4.0</u>				
Calibr.						<u>10.0</u>				
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 (Dally)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>AKalmbacher</u>	<u>5-16-2017</u>	<u>1540</u>	<u>0.000</u>	<u>0.00</u>	<u>P</u>	<u>L</u>

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

Clapboard Creek

Calibration QC Pre-Deployment

Date 5-17-2017

QC'd By

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) 104 Battery Life (days) 117

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

Conductivity Cell Constant 4.9083 ODO Gain 1.05874 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.0	50.00				100	0.00	0.0	126.0
Measured	21.8	50.09					0.001	-0.6	123.6
Calibrate		50.00				99.9	0.00	0.0	128.6

Start Time (Sonde) 8:30

File Name CC05172017 Start Date 5-17-2017 Start Time (Actual) 9:30 DST

Deployment Information

Deployed By PO/AK

Instrument # JEA1 Date 5-17-2017

Time 9:20 DST

Notes

Warm, mid 80's

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

Observation Description

Low tide

Recorded By A. Kalmbacher Computer Entry By A. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument # SEA 1 Date 6-2-2017 Time 10:40 (9:40 Sonde time)Barometric Pressure 760 mmHg pH7 (mv) pH 10 / 4 (mv) Battery Voltage 12.3 Turbidity wiper parked 180° ☒ Y / N ☐ N ODO ☒ Y / N ☐ NPost Calibration Date 6-2-2017 Cond. Cell Constant 4.9083 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>23.5</u>	<u>50.00</u>				<u>100.0</u>	<u>0.000</u>	<u>0.0</u>	
Measured	<u>21.07</u>	<u>49.06</u>				<u>100.7</u>	<u>0.001</u>	<u>15.7</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: E/L External Screen: N Temp/Cond: NODO Probe: *A/H pH Probe: N Turbidity: N

Comments:

Warm, Humid

No breeze - water flat
low slack tide

* Filamentous growth on probe may have affected turbidity readings - also had eggs laid on sonde - may have affected turbidity readings

File Name CCO6172017

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

Download File

☒ Y / ☐ NDate 6-2-2017 Initials AK

Sent Datafile

☒ Y / ☐ NDate 6-5-2017 Initials AK

Sent Datasheet

☒ Y / ☐ NDate 6-5-2017 Initials AK

Recorded By:

AKalmbacher

Computer Entry By:

AKalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name
Clipboard Creek

Calibration QC Pre-Deployment

Date 6/2/17

QC'd By Paige Davis

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) 77

Battery Life (days) 117

Barometric Pressure 760

pH7 (mv)

pH10/4 (mv)

Conductivity Cell Constant 5.05922

ODO Gain 1.10

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.4	50,000				100	0.0	0.0	126
Measured		49,900				100.1	0.0	1.4	125.5
Calibrate		50,000				99.9	0.0	0.0	125.7

Start Time (Sonde) 0945

File Name CC06022017 Start Date 6-2-2017 Start Time (Actual) 1045 DST

Deployment Information

Deployed By RD/AK

Instrument # SEA 2 Date 6-2-2017

Time 1038 DST

Notes

Warm, Humid - No breeze, water flat

Site 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 Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument #

YEA 2

Date

6-23-2017

Time

0910 DST

Barometric Pressure

760

mmHg

pH7 (mv)

pH 10 / 4 (mv)

pH 10 / 4 (mv)

Battery Voltage

12.4

Turbidity wiper parked 180°

(Y) N

ODO

(Y) N

Post Calibration Date

6-23-2017

Cond. Cell Constant

5.05922

pH Slope

pH Slope

BUT
SWEEPER
WOULD NOT
SWEEP -
GROWTH ON
MEMBRANE

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	25.0	50.00				100	0.00	0.0	
Measured	25.04	48.91				18.1	0.02	6.8	

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:

ODO Probe:

H/A

pH Probe:

N

Turbidity:

M-H/A

Comments:

Partly cloudy, mid 80's
Incoming High tide - light chop
Sonde stopped logging 16:15 6/20/2017 2 1/2 days before retrieval

File Name CC06022017

Any Probe Malfunctions

(Y) N

DO PROBE

If Y, please describe above

Download File

(Y) N

Date 6-23-2017

Initials

AK

Sent Datafile

(Y) N

Date 6-26-2017

Initials

AK

Sent Datasheet

(Y) N

Date 6-26-2017

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 9AE RQ- 2017- Project Clayboard 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 _____

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>22</u> <u>6-23-17</u>	<u>1250</u>	<u>21</u>	<u>8.91</u>	<u>8.90</u>	<u>100</u>		<u>1.049</u>		
ICV			<u>1253</u>	<u>21.2</u>	<u>8.88</u>	<u>8.89</u>	<u>100.1</u>		<u>1.049</u>	<u>P</u>	<u>L</u>
CCV											
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.	<u>A Kalmbacher</u>	<u>22</u> <u>6-23-17</u>	<u>1300</u>			<u>50,000</u>	<u>50,070</u>		
ICV			<u>1303</u>			<u>58,640</u>	<u>59,410</u>	<u>P</u>	<u>L</u>
CCV									
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.						<u>7.0</u>				
Calibr.						<u>4.0</u>				
Calibr.						<u>10.0</u>				
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	<u>A Kalmbacher</u>	<u>6-23-17</u>	<u>1305</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u>	<u>L</u>

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