

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: Shrimp Trap RQ- 2022-10-10-25 Project: 25-4A-16025 254A 2210

- 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 11/9/22

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.	Terry Riordan	12/1/22	0704	21.6	764.3	8.9	8.86	100.6	/	1.04	P/F	L/F
ICV			0705	21.6	764.3	8.9	8.85	100.6	/	/	P/F	L/F
CCV	Terry Riordan		1450	22.4	764.3	8.7	8.86	102.1	/	/	P/F	L/F
CCV											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 (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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	12/1/22	0708	220328A	04/23	100.0	100.0	P/F	L/F
ICV			0710	2204D30	04/24	100	99.1	P/F	L/F
CCV	Terry Riordan		1453	2206H11	06/24	10,000	10,028	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	12/1/22	0712	223156	06/24	7.01	22.2	7.01	-34.6	P/F	L/F
Calibr.			0714	215478	07/23	4.00	22.1	4.00	142.6	P/F	L/F
Calibr.			0717	213014	05/23	10.04	22.2	10.04	-213.5	P/F	L/F
ICV			0720	213014	05/23	10.0	22.1	10.03	-212.6	P/F	L/F
CCV	Terry Riordan		1455	215478	07/23	4.00	22.	4.10	137.3	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 10 178.9, slope from 4 to 7 177.2 (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 (hot surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: NA
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: NA; 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						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:

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: Craw Dally RQ- 2022-10-17-28 Project: HAB

- 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 11/9/22

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>Kate March</u>	<u>12/1/22</u>	<u>1024</u>	<u>21.8</u>	<u>765.6</u>	<u>8.8</u>	<u>8.86</u>	<u>100.7</u>	<u>/</u>	<u>0.941</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u> </u>	<u> </u>		<u>21.8</u>	<u>765.6</u>	<u>8.8</u>	<u>8.86</u>	<u>100.9</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u> </u>	<u> </u>	<u>1613</u>	<u>23.8</u>	<u>744.3</u>	<u>8.4</u>	<u>8.50</u>	<u>100.6</u>	<u>/</u>	<u>/</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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>K. March</u>	<u>12/1/22</u>	<u>1030</u>	<u>220328A</u>	<u>4/23</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u> </u>	<u> </u>		<u>2204D30</u>	<u>4/24</u>	<u>100</u>	<u>99.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u> </u>	<u> </u>		<u>2204D30</u>	<u>4/24</u>	<u>100</u>	<u>99.5</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>K. March</u>	<u>12/1/22</u>	<u>1035</u>	<u>223156</u>	<u>6/24</u>	<u>7.01</u>	<u>22.0</u>	<u>7.01</u>	<u>-374</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u> </u>	<u> </u>		<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>21.9</u>	<u>4.00</u>	<u>42.3</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u> </u>	<u> </u>		<u>213014</u>	<u>5/23</u>	<u>10.04</u>	<u>21.7</u>	<u>10.04</u>	<u>-24.1</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u> </u>	<u> </u>		<u>213014</u>	<u>5/23</u>	<u>10.04</u>	<u>21.9</u>	<u>10.02</u>	<u>-23.2</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u> </u>	<u> </u>		<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>21.9</u>	<u>4.05</u>	<u>139.6</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 10 176.7, slope from 4 to 7 179.7 (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: 11/9/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead Date of last verification: 6/1/22

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>K March</u>	<u>12/1/22</u>	<u>1045</u>	<u>0.272</u>	<u>0.272</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: