

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 Daddy RQ- 2022-10-17-21 Project: SMP

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 8/26/22

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>M. Bearden</u>	<u>10/17/22</u>	<u>0840</u>	<u>22.2</u>	<u>756.3</u>	<u>8.7</u>	<u>8.67</u>	<u>99.5</u>		<u>0.99</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>0844</u>	<u>22.4</u>	<u>756.2</u>	<u>8.6</u>	<u>8.69</u>	<u>100.2</u>			<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>Luf Bowman</u>	<u>10/17/2022</u>	<u>10:00</u>	<u>22.2</u>	<u>752.7</u>	<u>8.6</u>	<u>8.87</u>	<u>101.9</u>			<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV											<u>P</u> / <u>F</u>	<u>L</u> / <u>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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>MB</u>	<u>10/17</u>	<u>0848</u>	<u>220328A</u>	<u>4/23</u>	<u>1000</u>	<u>1000</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>0906</u>	<u>2204D30</u>	<u>4/24</u>	<u>100</u>	<u>100.2</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>Luf Bowman</u>	<u>10/17/22</u>	<u>14:00</u>	<u>2204D30</u>	<u>4/24</u>	<u>100</u>	<u>99.8</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV								<u>P</u> / <u>F</u>	<u>L</u> / <u>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>MB</u>	<u>10/17</u>	<u>0851</u>	<u>210792</u>	<u>2/23</u>	<u>7.01</u>	<u>22.4</u>	<u>7.01</u>	<u>-31.4</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0855</u>	<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>22.3</u>	<u>4.00</u>	<u>145.7</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0858</u>	<u>213014</u>	<u>5/23</u>	<u>10.03</u>	<u>22.4</u>	<u>10.03</u>	<u>-210.4</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>0901</u>	<u>213014</u>	<u>5/23</u>	<u>10.0</u>	<u>22.3</u>	<u>10.00</u>		<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>Luf Bowman</u>	<u>10/17/22</u>	<u>14:00</u>	<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>22.3</u>	<u>4.05</u>	<u>143.9</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV										<u>P</u> / <u>F</u>	<u>L</u> / <u>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 10 179, slope from 4 to 7 177.1 (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: 8/26/22
If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: knowhead; 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>MB</u>	<u>10/17</u>	<u>0908</u>	<u>0.272</u>	<u>0.272</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>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:

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-

Project: SMP

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

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.	M. Bearden	10/17/22	0842	22.2	756.5	8.7	8.67	99.5		1.11	P/F	L/F
ICV			0846	22.4	756.5	8.6	8.70	100.2			P/F	L/F
CCV			0748	22.0	753.0	8.7	8.80	100.7			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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	MB	10/17	0850	220328A	4/23	1000	1000	P/F	L/F
ICV			0907	2204D30	4/24	100	102.6	P/F	L/F
CCV			0750	2206H11	6/24	10000	10019	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.	MB	10/17	0853	210792	2/23	7.01	22.4	7.01	-32.5	P/F	L/F
Calibr.			0856	215478	7/23	4.00	22.3	4.00	143.9	P/F	L/F
Calibr.			0859	213014	5/23	10.03	22.4	10.03	-210.7	P/F	L/F
ICV			0902	213014	5/23	10.0	22.4	10.02		P/F	L/F
CCV			0750	210792	2/23	7.0	22.4	7.02		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 10 178.2, slope from 4 to 7 176.4 (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: ; Date of last verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID:

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	MB	10/17	0909	0.272	0.271	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: