

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: CRAWDADDY

RQ- 2021-11-15-21

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 9/3/21

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	11/15/21	0718	21.7	759.9	8.8	8.79	99.9	/	0.9793	P/F	L/F
ICV			0720	21.7	758.9	8.8	8.79	100.0	/		P/F	L/F
CCV	M. Bearden		1333	21.9	758.7	8.7	8.95	102.2	/		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	11/15/21	0725	210127B	2/22	1000	1000	P/F	L/F
ICV			0727	2107F26	7/23	100	100.8	P/F	L/F
CCV	M. Bearden		1335	2107F26	7/23	100	103.9	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	11/15/21	0731	210792	2/23	7.01	21.9	7.01	-75.0	P/F	L/F
Calibr.			0734	210273	2/23	4.00	22.0	4.00	98.5	P/F	L/F
Calibr.			0737	207370	3/23	10.04	21.8	10.04	-253.0	P/F	L/F
ICV			0739	202370	3/23	10.04	21.9	10.03	-251.8	P/F	L/F
CCV	M. Bearden		1336	210273	2/23	4.00	22.1	4.04		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 10 178.0, slope from 4 to 7 173.5 (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: 9/3/21

If NO, what will be used? (circle one) Secchi Disk / Line / Sonar Unique ID: Knothead; Date of last verification: 6/4/21

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	Terry Riordan	11/15/21	0739	0.272	0.273	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)

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box if there are
qualified data on
this page

Meter ID: Shrimp Trap

RQ- 2021-11-5-07

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 9/3/21

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	11/15/21	0750	21.5	759.0	8.8	8.81	99.9	/	1,102	P/F	L/F
ICV	I		0752	21.6	759.0	8.8	8.82	100.0	/		P/F	L/F
CCV <u>MB</u>	<u>M. Bearden</u>		<u>1333</u>	<u>21.9</u>	<u>758.7</u>	<u>8.7</u>	<u>8.95</u>	<u>103.2</u>			P/F	L/F
CCV	<u>U. Bates</u>	<u>11/15/21</u>	<u>14:41</u>	<u>22.4</u>	<u>758.4</u>	<u>8.6</u>	<u>9.17</u>	<u>106.0</u>	/	/	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.	Terry Riordan	11/15/21	0756	210127B	2/22	1000	1000	P/F	L/F
ICV	I		0759	2107F26	7/23	100	101.6	P/F	L/F
CCV <u>MB</u>	<u>M.B.</u>		<u>1335</u>	<u>2107F26</u>	<u>7/23</u>	<u>100</u>	<u>103.4</u>	P/F	L/F
CCV	<u>U. Bates</u>	<u>11/15/21</u>	<u>14:53</u>	<u>2107F26</u>	<u>7/23</u>	<u>100</u>	<u>101.4</u>	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	11/15/21	0805	210792	2/23	7.01	21.8	7.01	-80.1	P/F	L/F
Calibr.			0811	210273	2/23	4.00	21.9	4.00	97.9	P/F	L/F
Calibr.			0813	207370	3/23	10.04	21.9	10.04	-261.6	P/F	L/F
ICV			0815	207370	3/23	10.04	21.8	10.03	-260.5	P/F	L/F
CCV <u>MB</u>	<u>M.B.</u>		<u>1338</u>	<u>210273</u>	<u>2/23</u>	<u>4.0</u>	<u>22.1</u>	<u>4.04</u>		P/F	L/F
CCV	<u>U. Bates</u>	<u>11/15/21</u>	<u>14:59</u>	<u>210273</u>	<u>2/23</u>	<u>4.0</u>	<u>22.1</u>	<u>4.16</u>	<u>89.3</u>	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 10 181.5, slope from 4 to 7 178.0 (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: 9/3/21

If NO, what will be used? (circle one) Seichi Disk Line / Sonar Unique ID: Light; Date of last verification: 6/4/21

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	Terry Riordan	11/15/21	0815	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:

DO CCV failed