

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: 2022-02-07-22

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 12/2/21

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	2/10/22	0751	21.3	757.7	8.8	8.84	99.7	/	0.963	P/F	L/F
ICV			0752	21.4	757.7	8.8	8.84	99.8	/	/	P/F	L/F
CCV	Terry Riordan		1557	20.7	755.8	8.9	8.95	99.7	/	/	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	2/10/22	0759	210127B	2/22	1000	1000	P/F	L/F
ICV			0807	2109K87	9/23	100	99.2	P/F	L/F
CCV	Terry Riordan		1554	2109K87	9/23	100	99.2	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	2/10/22	0814	210792	2/23	7.02	21.1	7.02	-14.1	P/F	L/F
Calibr.			0820	210273	2/23	4.00	21.1	4.00	161.7	P/F	L/F
Calibr.			0824	207370	3/23	10.05	21.0	10.05	-188.3	P/F	L/F
ICV			0826	207370	3/23	10.05	21.0	10.03	-187.8	P/F	L/F
CCV	Terry Riordan		1555	210273	2/23	4.01	21.6	4.08	152.3	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 10 174.2, slope from 4 to 7 175.8 (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: 12/2/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knot head; Date of last verification: 12/1/21

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	2/10/22	0826	0.272	0.272	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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Meter ID: Shrimp Trap RQ: 2022-01-31-10 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 12/2/21

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	2/10/22	0752	21.7	757.7	8.8	8.77	99.7	/	1.04	(P) F	(L) F
ICV	1	1	0753	21.7	757.7	8.8	8.77	99.7	/	/	(P) F	(L) F
CCV	Victoria Schwartz	2/10/22	15:00	21.4	755.7	8.8	8.84	100.0	/	/	(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	2/10/22	0800	210127B	2/22	1000	1000	(P) F	(L) F
ICV	1	1	0807	2109K87	9/23	100	99.0	(P) F	(L) F
CCV	Victoria Schwartz	2/10/22	15:02	2109K87	09/23	100	98.8	(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	2/10/22	0815	210792	2/23	7.02	21.2	7.02	-13.6	(P) F	(L) F
Calibr.			0818	210273	2/23	4.00	21.2	4.00	162.7	(P) F	(L) F
Calibr.			0825	207370	3/23	10.05	21.0	10.05	-188.7	(P) F	(L) F
ICV			0827	207370	3/23	10.05	21.0	10.03	-188.1	(P) F	(L) F
CCV	Victoria Schwartz	2/10/22	15:05	210273	02/23	4.00	21.6	4.12	156.3	(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 10 175.1, slope from 4 to 7 176.3 (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: 12/2/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: light; Date of last verification: 12/1/21

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	2/10/22	0827	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: 4 HAB Follow-ups (Orange County)