

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: CRAWPADDY

RQ: 2021-10-25-18

Project: SNP

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	10/25/21	6:56	24.0	753.1	8.3	8.35	99.1	/	0.969	P/F	L/F
ICV	1	1	6:58	24.0	753.2	8.3	8.35	99.2	/	/	P/F	L/F
CCV	Katie March	1	1514	22.9	750.4	8.5	8.69	101.2	/	/	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	10/25/21	7:03	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	7:06	2107F26	7/23	100.0	100.4	P/F	L/F
CCV	Katie March	1	1519	2107F26	7/23	100	100.0	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	10/25/21	0710	210792	2/23	7.00	23.5	7.00	-71.6	P/F	L/F
Calibr.	1	1	0713	210273	2/23	4.00	23.5	4.00	105.7	P/F	L/F
Calibr.	1	1	0718	207370	3/23	10.01	23.5	10.01	-251.5	P/F	L/F
ICV	1	1	0720	207370	3/23	10.01	23.7	9.98	-249.4	P/F	L/F
CCV	Katie March	1	1523	210273	2/23	4.00	23.5	4.11	99.8	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 10 179.9, slope from 4 to 7 177.3 (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: 9/3/21

If NO, what will be used? (circle one) Seichi Disk Line / Sonar Unique ID: Knothca; 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	10/25/21	0720	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)

Boldly "X" this box if there are qualified data on this page.

Meter ID: Shrimp Trap

RQ: 2021-10-25-18

Project: 5MP

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	10/25/21	0725	23.1	753.2	8.5	8.48	99.1	/	1.049	P/F	L/F
ICV			0727	23.2	753.2	8.5	8.48	99.2	/	/	P/F	L/F
CCV	Terry Riordan		1700	24.3	750.0	8.3	8.34	99.6	/	/	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	10/25/21	0730	210127B	2/22	1000	1000	P/F	L/F
ICV			0732	2107F26	7/23	100	100.4	P/F	L/F
CCV	Terry Riordan		1703	2107F26	7/23	100	100.3	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	10/25/21	0735	210792	2/23	7.00	23.6	7.00	-80.0	P/F	L/F
Calibr.			0741	210273	2/23	4.00	23.4	4.00	98.4	P/F	L/F
Calibr.			0744	207320	3/23	10.01	23.6	10.01	-259.0	P/F	L/F
ICV			0746	207320	3/23	10.01	23.7	10.00	-258.3	P/F	L/F
CCV	Terry Riordan		1706	210273	2/23	4.00	23.5	4.12	91.9	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 10 179.0, slope from 4 to 7 178.4 (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: 9/3/21

If NO, what will be used? (circle one) Secchi 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	10/25/21	0748	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: