

2022-08-08-12 HAB - LK Washington

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: 2022-06-27-13

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 6/1/22

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	8/23/22	0744	22.9	752.8	8.5	8.51	99.1	/	0.945	P/F	L/F
ICV			0745	22.9	753.0	8.5	8.51	99.1	/	/	P/F	L/F
CCV	Terry Riordan		1615	23.5	751.8	8.4	8.59	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	8/23/22	0748	220328A	04/23	1000	1000	P/F	L/F
ICV			0751	2204030	04/24	100	99.5	P/F	L/F
CCV	Terry Riordan		1612	2204030	04/24	100	99.4	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	8/23/22	0756	210792	02/23	7.00	23.7	7.00	-28.0	P/F	L/F
Calibr.			0759	215478	07/23	4.00	23.6	4.00	149.4	P/F	L/F
Calibr.			0802	207370	03/23	10.02	23.3	10.02	-204.7	P/F	L/F
ICV			0805	207370	03/23	10.02	23.3	10.02	-204.7	P/F	L/F
CCV	Terry Riordan		1614	215478	07/23	4.00	23.6	4.07	145.6	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 10 176.7, slope from 4 to 7 177.4 (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) 6/1/22

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 6/1/22

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	Terry Riordan	8/23/22	0805	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: 08-22-10

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	8/23/22	0819	22.9	752.7	8.5	8.50	99.0		1.12	P/F	L/F
ICV			0823	23.1	752.7		8.52	99.4			P/F	L/F
CCV			1548	28.8	752.2	7.6	7.99	103.5			P/F	L/F
CCV			1552	28.5	752.2	7.7	7.59	97.7			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	8/23	0826	220328A	4/23	1000	1000	P/F	L/F
ICV			0840	2204030	4/24	100	100.5	P/F	L/F
CCV			1554	2204030	4/24	100	99.3	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.	MB	8/23	0829	210792	2/23	7.01	23.6	7.01	-33.2	P/F	L/F
Calibr.			0833	215478	7/23	4.00	23.6	4.00	144.2	P/F	L/F
Calibr.			0836	207370	3/23	10.02	23.4	10.02	-20.9	P/F	L/F
ICV			0838	207370	3/23	10.0	23.4	10.00		P/F	L/F
CCV			1557	210792	2/23	7.0	23.5	7.07		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 10 176.7 slope from 4 to 7 177.4 (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	8/23	0841	0.271	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: