

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: 2023-09-25-18 Project: REF LAKE

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: 7/3/23

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.	Denver Baurassa	9/26/23	0727	23.0	758.6	8.6	8.6	100.2	✓	0.948816	P/F	L/F
ICV			0729	23.0	758.6	8.6	8.59	100.3	✓		P/F	L/F
CCV	Victoria Schwach	9/24/23	17:25	26.4	756.3	8.0	8.09	100.5	✓		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.	Denver Baurassa	9/26/23	0730	4306L79	06/25	1000	1000	P/F	L/F
ICV			0738	22207915	07/24	100	100.1	P/F	L/F
CCV	Victoria Schwach	9/26/23	17:28	2207695	07/24	100	100.4	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.	Denver Baurassa	9/26/23	0746	231678	05/26	7.01	23.2	7.01	-49.5	P/F	L/F
Calibr.			0748	231208	03/25	4.00	23.6	4.00	132.0	P/F	L/F
Calibr.			0750	222868	10/24	10.01	23.7	10.01	-225.4	P/F	L/F
ICV			0752			10.0	23.6	10.00	-225.3	P/F	L/F
CCV	Victoria Schwach	9/26/23	17:31	231208	03/25	4.00	23.5	3.99	133.0	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 10 175.9, slope from 4 to 7 181.5 (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: 7/3/23

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knotherd; Date of last verification: 5/17/23

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	Denver Baurassa	9/26/23	0742	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: Reference Lake: Brick Lake

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID: Shrimp Trap RQ: 2023-09-25-19 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.	Denver Baurassa	9/26/23	0728	23.0	758.8	8.6	8.6	100.2	✓	1.014897	P/F	L/F
ICV			0731	23.0	758.8	8.6	8.6	100.5	✓		P/F	L/F
CCV			1435	21.9	757.7	8.7	8.42	97.8	✓		P/F	L/F
CCV				22.8		8.6					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.	Denver Baurassa	9/26/23	0736	4306L79	06/25	1000	1000	P/F	L/F
ICV			0738	22207695	07/24	100	99.3	P/F	L/F
CCV			1440			100	98.9	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.	Denver Baurassa	9/26/23	0748	231678	05/25	7.01	23.0	7.01	-52.0	P/F	L/F
Calibr.			0750	231208	23/25	4.00	23.0	4.00	126.0	P/F	L/F
Calibr.			0752	222368	10/24	10.02	23.0	10.02	-230.0	P/F	L/F
ICV			0754			10.02	23.5	10.04	-231.5	P/F	L/F
CCV			1442	231208	03/25	4.00	23.4	4.09	121.2	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 7 178.0 (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: 7/3/23
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light; Date of last verification: 5/17/23

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	Denver Baurassa	9/26/23	0742	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: