

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: Friday

RQ: 2021-12-13-48

Project: Dwl Creek MARS

- 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 11/30/21

DO Depth FT (1000)	Name	Date	Time	Temp °C	Baro meter mmHg	DO Chart mg/L	Meter DO mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	12/16/21	0652	24.8	761.0	8.3	8.34	100.1	—	1.0388	P/F	L/F
ICV	Thomas Baker	12/16/21	0653	24.6	761.1	8.3	8.35	100.2	—	—	P/F	L/F
CCV	Nicole Reistad	12/16/21	1320	24.4	760.5	8.4	8.35	99.8	—	—	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 Code Range	Name	Date	Time	Lot #	Expt Date	Standard umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	12/16/21	0655	1108C98	9/23	2500	2500	P/F	L/F
ICV	Thomas Baker	12/16/21	0656	2109K87	9/23	100	99.2	P/F	L/F
CCV	Nicole Reistad	12/16/21	1316	1108C98	09/23	2500	2495	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

PH Depth FT (1000)	Name	Date	Time	Lot #	Expt Date	pH Buffer	Temp °C	Meter Reading mV	mV	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	12/16/21	0658	2107C00	7/23	7.00	25.1	7.00	—	P/F	L/F
Calibr.	"	"	"	0700	2109D38	8/23	4.01	24.8	4.01	P/F	L/F
Calibr.	"	"	"	0704	210652	4/23	10.01	25.0	10.00	P/F	L/F
ICV	Thomas Baker	12/16/21	0706	2109D38	8/23	4.01	24.8	3.97	—	P/F	L/F
CCV	Nicole Reistad	12/16/21	1318	210652	04/23	10.02	24.1	10.09	NR	P/F	L/F
CCV								10.06		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 _____, slope from 4 to 7 _____ (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: _____

If NO, what will be used? (circle one) **Secchi Disk** / Line / Sonar Unique ID: DE EPER-KC-118 Date of last verification: 08/16/21

Depth (1000)	Name	Date	Time	Calibrated Value (ft)	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						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: