

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: Frider EQ: 2021-12-06-43 Project: SMP: Cont. Slope

- 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 DEP SOP FT 1400	Name	Date	Time C-E	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.	William Muller	12/6/21	0721	23.6	760.0	8.5	8.52	100.2		1.062	(P) F	(L) F
ICV	"	12/6/21	0723	23.6	760.0	8.5	8.51	100.3			(P) F	(L) F
CCV	William Muller	12/6/21	1146	23.8	759.8	8.4	8.41	99.8			(P) F	(L) F
CCV	William Muller	12/6/21	1444	24.3	758.3	8.3	8.46	101.1			(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 1400	Name	Date	Time C-E	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	William Muller	12/6/21	0725	1107655	5/23	50,000	50,000	(P) F	(L) F
ICV	"	12/6/21	0730	1166354	6/23	10,000	9990	(P) F	(L) F
CCV	William Muller	12/6/21	1148	1107655	5/23	50,000	49,760	(P) F	(L) F
CCV	William Muller	12/6/21	1446	2109K87	9/23	100	99.0	(P) F	(L) F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time C-E	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	William Muller	12/6/21	0731	2107C00	7/23	7.00	24.5	7.00	-12.8	(P) F	(L) F
Calibr.	"	12/6/21	0736	2110D40	9/23	4.01	24.4	4.01	169.5	(P) F	(L) F
Calibr.	"	12/6/21	0739	2109H76	3/23	10.02	24.4	10.02	-182.4	(P) F	(L) F
ICV	"	12/6/21	0741	2110D40	9/23	4.01	24.3	4.01		(P) F	(L) F
CCV	William Muller	12/6/21	1450	2109H76	3/23	10.02	24.2	10.01		(P) F	(L) F
CCV	William Muller	12/6/21	1448	2109H76	3/23	10.02	24.6	10.02		(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 10 169.6, slope from 4 to 7 182.3 (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: _____

If NO, what will be used? (circle one) **Secchi Disk** / Line / Sonar Unique ID: PEEPER BLUER; Date of last verification: 08/16/21

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time C-E	Calibrated Value (0.00 or Offset), meters	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: