

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

Meter ID: 154179

NO: 2020-10-19-47

Project: SMP

Circle "N" this box if there are qualified data on this page.

- 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 10/13/20

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.	H. Schmidt	10/14/20	0730	23.9	763	8.5	8.48	100.1			(P) (F)	(L) (F)
ICV			0731	23.9	763	8.5	8.48	100.1			(P) (F)	(L) (F)
CCV			1446	24.8	762	8.3	8.35	100.4			(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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	H. Schmidt	10/14/20	0732	200124B	2/21	1000	1000	(P) (F)	(L) (F)
ICV			0733	200124B	2/21	100	101.3	(P) (F)	(L) (F)
CCV			1447	200124A	2/21	100	102.0	(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.	H. Schmidt	10/14/20	0735	2904682	3/21	7.01	23.9	7.01	-8.1	(P) (F)	(L) (F)
Calibr.			0737	203620	6/22	4.00	23.5	4.00	170.2	(P) (F)	(L) (F)
Calibr.			0738	201473	5/22	10.02	23.6	10.02	-126.3	(P) (F)	(L) (F)
ICV			0740	203620	6/22	4	23.6	3.96	172.3	(P) (F)	(L) (F)
CCV			1449	2904682	6/22	7	24.9	7.15	-10.9	(P) (F)	(L) (F)
CCV					3/21					P / F	L / F

pH Acceptance criteria ± 0.2 SU.

mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range $\pm 180 \pm 50$;

mV pH 10 Range $\pm 180 \pm 50$;

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: 10/13/20

If NO, what will be used? Secchi Disk Line / Sonar Unique ID: _____ Date of last verification: _____

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	H. Schmidt	10/14/20	0741	0.00	0.00	(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: