

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

Meter ID: BS077

RQ: 2022-08-29-15

Project: SMP

Only "X" and "N/A" are quality control 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 6/27/22

DO FDEP 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 /	Lab /
Calibr.	NM	8/29/22	0630	25.3	760	8.2	8.25	100.6			Fail	Field
ICV	↓	↓	0633	↓	↓	↓	8.33	101.6			P / F	L / F
CCV	↓	↓	1155	22.9	761	8.6	9.46	101.1			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 /	Lab /
Calibr.	NM	8/29/22	0635	21030B	9/20/22	5000	5000	P / F	L / F
ICV	↓	↓	0638	220314C	4/23	1000	975	P / F	L / F
CCV	↓	↓	1200	220425	5/23	50,000	49,500	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter Reading SU	mV	Pass /	Lab /
Calibr.	NM	8/29/22	0640	213754	6/23	7.	24.6	7.0		P / F	L / F
Calibr.	↓	↓	0642	21548	7/23	4.	↓	4.0		P / F	L / F
Calibr.	↓	↓	0644	205284	10/22	10.	↓	10.0		P / F	L / F
ICV	↓	↓	0646	21548	7/23	4.0	↓	4.17	142.5	P / F	L / F
CCV	↓	↓	1205	213754	6/23	7.0	23.3	6.99	24.9	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 ± 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: 6/27/22

If NO, what will be used? (circle one) 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	NM	8/29/22	0648	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:

DO "J" Qual. Prod NM