

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

Meter ID: 155077

RQ: 2022-05-23-26

Project: SM P

- 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 / Fail	Lab / Field
Calibr.	S. Hall	7/25	0725	25.6	763.3	8.2	8.2	100.0	-	11104	P/F	L/F
ICV	S. Hall	7/25	0732	25.7	763.3	8.2	8.2	100.5	-		P/F	L/F
CCV	B. Olin	7/25	1602	26.1	763.1	8.1	8.43	103.4			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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	S. Hall	7/25	0744	210330B	9/2022	5000	5000	P/F	L/F
ICV	S. Hall	7/25	0745	220413B	4/2023	10000	9942	P/F	L/F
CCV	B. Olin	7/25	1616	220713D	4/2023	100	100.1	P/F	L
CCV	B. Olin	7/25	1611	220425	5/2023	50.000	49.667	P/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 / Fail	Lab / Field
Calibr.	S. Hall	7/25	0751	213754	6/2023	7.	27.1	7.0	-288	P/F	L/F
Calibr.	S. Hall	7/25	0754	215488	07/2022	4.	27.2	4.01	149.0	P/F	L/F
Calibr.	S. Hall	7/25	0759	205200	10/2021	10.	27.0	9.45	-2073	P/F	L/F
ICV	S. Hall	7/25	0804	215451	07/2022	4.0	26.3	4.00	145.9	P/F	L/F
CCV	B. Olin	7/25	1616	213754	6/2023	7	21.4	7.03	-30.3	P/F	L/F
CCV								6.99		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 10 178.5, slope from 4 to 7 177.5 (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: _____

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	S. Hall	7/25	0813	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 failed CCV