

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: **154179**

RQ- **2023-11-13-38**

Project: **SMP**

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 **10/5/23**

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.	S. Slode	11/16/2023	702	21.0	762.2	8.9	8.94	100.4	—	1.1145	(P)F	(L)F
ICV	S. Slode	↓	704	21.1	762.2	8.9	8.93	100.5	—		(P)F	(L)F
CCV	L.M. Nally	↓	658	22.4	760.3	8.7	8.66	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. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	S. Slode	11/16/2023	0706	230627B	07/2024	5000	5000	(P)F	(L)F
ICV	S. Slode	↓	0708	230627D	07/2024	50,000	50,130	(P)F	(L)F
CCV	L.M. Nally	↓	1559	230627A	7/2024	100	101.1	(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.	S. Slode	11/16/2023	0710	1LL0690	08/2024	7.02	20.9	7.02	-35.4	(P)F	(L)F
Calibr.	S. Slode	↓	0712	1M0088C	08/2024	4.00	20.9	4.00	136.9	(P)F	(L)F
Calibr.	S. Slode	↓	0714	1LJ057C	12/2023	10.05	20.9	10.05	-194.8	(P)F	(L)F
ICV	S. Slode	↓	0716	1LL0690	08/2024	4.00	20.9	3.98	136.4	(P)F	(L)F
CCV	L.M. Nally	↓	1602	1LJ057C	12/2023	10.00	21.2	10.14	-202.3	(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 $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 **159.4**, slope from 4 to 7 **172.3** (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: **10/9/2023**

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. Slode	11/16/2023	0717	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: