

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: Leica

RQ- 2022-10-10-63

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 7/14/22

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.	D. Mathias	10/11/22	0730	20.7	762	9.00	9.01	100.4	-	0.9661	P / F	L / F
ICV	D. Mathias	10/11/22	0732	20.8	763	9.00	9.02	100.8	-	-	P / F	L / F
CCV	D. Mathias	10/11/22	1516	25.5	762	8.20	8.17	99.9	-	-	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 / Fail	Lab / Field
Calibr.	D. Mathias	10/11/22	0741	2208647	08/24	1000	1016	P / F	L / F
ICV	D. Mathias	10/11/22	0747	2203F23	03/24	100	102.3	P / F	L / F
CCV	D. Mathias	10/11/22	1519	2201594	01/24	500	512	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.	D. Mathias	10/11/22	0753	219095	01/24	7.02	21.1	7.02	-28.5	P / F	L / F
Calibr.	D. Mathias	10/11/22	0758	219096	02/24	4.00	21.1	4.00	147.9	P / F	L / F
Calibr.	D. Mathias	10/11/22	0802	213755	06/23	10.05	21.1	10.05	-206.1	P / F	L / F
ICV	D. Mathias	10/11/22	0805	213755	06/23	10.00	21.1	10.03	-	P / F	L / F
CCV	D. Mathias	10/11/22	1522	219095	01/24	7.00	21.0	7.02	-	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 10 177.6, slope from 4 to 7 175.5 (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: #3; Date of last verification: 1/3/22

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						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: