

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

Boldly "X" this box if there are qualified dat this page.

Meter ID: **TREND YSI**

RQ: **2022-08-31**

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

DO DEP SOP FT 1500	Name	Date	Time C/T/E/T	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.	F. Butera	9/15/22	8:20	22.3	763	8.7	8.73	100.0			P / F	L / F
ICV	F. Butera	9/15/22	8:24	22.3	763	8.7	8.74	100.1			P / F	L / F
CCV	F. Butera	9/15/22	14:58	22.7	761.8	8.7	8.63	99.7			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 C/T/E/T	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	F. Butera	9/15/22	8:26	2204130	04/2023	1000	1003	P / F	L / F
ICV	F. Butera	9/15/22	8:30	2204130	04/2023	100	99.8	P / F	L / F
CCV	F. Butera	9/15/22	15:00	2204130	04/2023	100	99.5	P / F	L / F
CCV								P / F	

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time C/T/E/T	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	F. Butera	9/15/22	8:35	213754	06/2023	7.0	23.5	7.01	4.0	P / F	L / F
Calibr.			8:38	21E0260	06/15/23	4.0	23.7	170.5	4.0	P / F	L / F
Calibr.			8:40	205284	10/2022	10.0	23.5	10.03	-181.8	P / F	L / F
ICV			8:42	21E0260	06/2023	4.0	23.5	4.00	171.9	P / F	L / F
CCV	F. Butera	9/15/22	14:55	213754	06/2023	7.0	21.6	7.06	-7.5	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 10 174.29, slope from 4 to 7 174.5 (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: 6/27/2022

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 C/T/E/T	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	F. Butera	9/15/22	8:43	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: **SMP - LUT**

63NW0223 Unnamed Lake c Blue Water Bay