

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

Boldly "X" this box if there are qualified persons on this page

Meter ID: Bruce

RQ: 2024-02-05-34

Project: Smp-Vilano bial

- 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 12/18/2023

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.	K. Coker	2/8/24	750	20.3	767.3	9.1	—	101.0	—	1.028	Ⓟ / F	Ⓢ / F
ICV	K. Coker	2/8/24	754	20.2	767.3	9.1	9.14	101.0	—	1.028	Ⓟ / F	Ⓢ / F
CCV	J. Parnish	2/8/24	1428	19.8	766.5	9.2	9.25	101.2	—	—	Ⓟ / F	Ⓢ / 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.	K. Coker	2/8/24	757	231103B	11/2024	1000	1000	Ⓟ / F	Ⓢ / F
ICV	K. Coker	2/8/24	759	230612C	06/2024	50000	50060	Ⓟ / F	Ⓢ / F
CCV	J. Parnish	2/8/24	1429	231103A	11/2024	100	99.2	Ⓟ / F	Ⓢ / 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.	K. Coker	2/8/24	805	43040117	4/24/25	7.02	20.9	6.92	-21.8	Ⓟ / F	Ⓢ / F
Calibr.	K. Coker	2/8/24	809	43080576	8/31/25	4.00	20.6	3.95	148.9	Ⓟ / F	Ⓢ / F
Calibr.	K. Coker	2/8/24	814	43070485	8/1/25	10.04	20.9	9.99	-196.7	Ⓟ / F	Ⓢ / F
ICV	K. Coker	2/8/24	816	43080576	8/31/25	4.00	21.0	4.07	149.8	Ⓟ / F	Ⓢ / F
CCV	J. Parnish	2/8/24	1430	43070485	8/1/25	10.00	20.5	9.41	-202.4	P / F	Ⓢ / 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 10 174.9, slope from 4 to 7 170.7 (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: 12/18/2024

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	K. Coker	2/8/24	826	0.000	0.005	Ⓟ / F	Ⓢ / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: