

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

boldly "X" this box if there are qualified data on this page.

Meter ID: Bruce

RQ: 2022-10-03-24

Project: 241578-Outside Br
Collection Post

- 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 8/1/22

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.	Bruce Davis	10/18/22	749	23.5	756.3	8.5	8.5	99.5	1.02	1.02	P/F	L/F
ICV			751	23.5	756.2	8.5	8.46	99.5	1.02	1.02	P/F	L/F
CCV			1437	22.0	756.2	8.7	8.71	99.5	1.02	1.02	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.	Bruce Davis	10/18/22	732	220719A	7/23	1000	1000	P/F	L/F
ICV			734	211122A	12/22	15,000	15,101	P/F	L/F
CCV			1438	220719A	7/23	1000	1001	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.	Bruce Davis	10/18/22	737	M074-20	3/24	7.00	23.8	7.00	-7.2	P/F	L/F
Calibr.			740	L344-18	12/23	4.00	23.8	4.00	170.3	P/F	L/F
Calibr.			744	2202F29	8/23	10.02	23.4	10.02	-180.0	P/F	L/F
ICV			746	M074-20	3/24	7.01	23.8	7.02	-6.3	P/F	L/F
CCV			1440	2202F29	8/23	10.03	22.4	10.00	-179.9	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 10 172.8, 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: 8/1/22

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	Bruce Davis	10/18/22	750	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: