

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: Stitch

RQ: 2022-11-14-21

Project: SMP L5JR East

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 11/14/22

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.	Katn Villinger	12/5/22	840	19.16	764.1	9.2	-	100.5	-	1.063	(P) F	(L) F
ICV	↓	↓	842	19.5	764.3	9.2	9.23	100.6	-	1.063	(P) F	(L) F
CCV	B Davis	↓	1500	21.2	762.8	8.9	8.89	100.1	✓	1.06	(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.	K Villinger	12/5/22	848	226719A	7/23	1000	1000	(P) F	(L) F
ICV	↓	↓	853	210917A	3/23	1000	101.0	(P) F	(L) F
CCV	B Davis	↓	1502	220225B	3/23	50,000	50,310	(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.	K Villinger	12/5/22	858	M118-15	5/24/24	7.02	19.3	7.02	-34.6	(P) F	(L) F
Calibr.	↓	↓	904	L344-18	12/29/23	4.00	19.2	4.00	139.7	(P) F	(L) F
Calibr.	↓	↓	910	M103-01	4/19/24	10.06	19.3	10.06	-206.6	(P) F	(L) F
ICV	↓	↓	914	M118-15	5/24/24	7.02	19.3	7.04	-34.5	(P) F	(L) F
CCV	B Davis	↓	1505	L344-18	12/29/23	4.00	20.9	3.96	142.5	(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 _____, slope from 4 to 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: 11/14/22

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	K Villinger	12/5/22	915	0.000	0.000	(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: