

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

Meter ID: 11G 10108

RQ: 2020-09-14-32

Project: 2020 SMP

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

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 07/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Harden	09/15/20	0754	22.6	756.5	8.6	8.62	99.7	/	1.074	P/F	L/F
ICV	"	"	0807	22.3	756.8	8.6	8.82	101.5	/		P/F	L/F
CCV	"	"	1246	22.7	758.1	8.6	8.80	102.1	/		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.	Ben Harden	09/15/20	0757	200407D	07/21	1000	1000	P/F	L/F
ICV	"	"	0758	2908947	07/21	100.0	99.5	P/F	L/F
CCV	"	"	1247	2908947	07/21	100.0	98.9	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.	Ben Harden	09/15/20	0800	200407C	10/21	7.01	22.2	7.01	-25.8	P/F	L/F
Calibr.	"	"	0802	200221B	09/21	4.01	22.3	4.00	141.5	P/F	L/F
Calibr.	"	"	0805	190405D	10/20	10.04	22.4	10.03	-188.9	P/F	L/F
ICV	"	"	0806	"	"	10.04	22.4	10.02	-189.1	P/F	L/F
CCV	"	"	1249	200221B	09/21	4.01	22.4	3.95	146.3	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 10 163.1, slope from 4 to 7 170.3 (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? Secchi Disk Line / Sonar Unique ID: #1; Date of last verification: 07/20

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: