

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

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

Meter ID: DEP#154181 RQ: 2019-04-08-59 Project: SMP Hopkins Cr.

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 02-11-19

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.	PO'Connor	04-09-19	0718	23.5	753.2	8.4	8.4	99.1	-	-	P/F	L/F
ICV	✓	✓	0720	23.6	753.2	8.4	8.4	99.1	-	-	P/F	L/F
CCV	PO'Connor	04-09-19	1550	22.7	749.4	10					P/F	L/F
CCV	PO'Connor	04-09-19	1605	24.7	749.5	8.2	8.15	98.0	-	-	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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	PO'Connor	04-09-19	0723	190319A	03-2020	1000	1001	P/F	L/F
ICV	✓	✓	0725	190125A	02-2020	100	101.5	P/F	L/F
CCV	PO'Connor	04-09-19	1610	180919	09-2019	50,000	50,534	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.	PO'Connor	04-09-19	0728	2801A76	06-2020	7.00	24.0	7.01	-47.2	P/F	L/F
Calibr.			0730	2901A40	01-2021	4.00	24.0	4.00	130.8	P/F	L/F
Calibr.			0732	2809980	03-2020	10.00	23.9	10.00	-220.1	P/F	L/F
ICV	✓	✓	0735	2801A76	06-2020	7.00	24.0	7.02	-46.6	P/F	L/F
CCV	PO'Connor	04-09-19	1615	2809980	03-2020	10.00	24.0	9.98	-218.8	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 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: 02-11-19

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						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:

Chyane Ruh 4/17/19