

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: **PRO MOVE**

RQ: **2019-03-25-62**

Project: **SCI: Brush Creek**

- 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 **03/19/19**

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.	N. Reistad	03/28/19	0715	25.8	759.3	8.14	8.14	99.9		1.015252	(P) F	(L) F
ICV			0716	25.8	759.3	8.14	8.12	99.7			(P) F	(L) F
CCV	N. Reistad	03/28/19	1453	25.2	759.0	8.23	8.16	99.0			(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 #	Expi. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	N. Reistad	03/28/19	0710	2808E90	08/20	1000	1000	(P) F	(L) F
ICV			0712	2812A05	12/20	100	101	(P) F	(L) F
CCV	N. Reistad	03/28/19	1447	2810C41	10/20	500	512	(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 #	Expi. Date	pH Buffer	Temp °C	Meter Reading mV	mV	Pass / Fail	Lab / Field
Calibr.	N. Reistad	03/28/19	0720	187681	11/20	7.6997	25.4	7.00	-27.3	(P) F	(L) F
Calibr.			0725	187188	11/20	4.010	25.2	4.01	150.1	(P) F	(L) F
Calibr.			0727	186877	10/20	10.013	25.2	10.00	-204.2	(P) F	(L) F
ICV			0728	186877	10/20	10.013	25.2	9.99		(P) F	(L) F
CCV	N. Reistad	03/28/19	1445	187681	11/20	6.997	24.8	7.05		(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: _____

If NO, what will be used? (circle one) **Secchi Disk Line** / Sonar Unique ID: **Deep Blue** Date of last verification: **12/26/18**

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: