

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

BOBCAT

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

Meter ID: 5

RO: 2018-11-12-89

Project: SMP - Powell 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 10/4/2018

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.	M. DUGAN	11/20/18	0821	24.5	760	8.34	8.34	99.9	70.6	0.982	P/F	L/F
ICV	"	"	0824	24.2	760	8.39	8.37	99.7	70.6	0.982	P/F	L/F
CCV	"	"	1545	23.9	760	8.43	8.44	100.	69.6	0.982	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.	M. DUGAN	11/20/18	0819	2803F43	03/20	1000	1000	P/F	L/F
ICV	"	"	0820	180522C	06/19	100	103	P/F	L/F
CCV	"	"	1512	180522C	06/19	100	104	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.	M. DUGAN	11/20/18	0827	181455	03/20	6.997	25.2	7.00	-27.9	P/F	L/F
Calibr.	"	"	0829	183218	07/20	4.010	25.2	4.00	-49.4	P/F	L/F
Calibr.	"	"	0832	183381	05/20	10.013	25.3	10.00	-205.6	P/F	L/F
ICV	"	"	0833	183218	07/20	4.010	25.1	3.97	-151.2	P/F	L/F
CCV	"	"	1547	181455	03/20	6.997	25.2	6.96	-25.7	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: 07/10/18

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: