

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: PROMOTE

RQ: 2019-07-08/10

Project: SMP Keys Run

2019-07-29-43

- 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 6/18/19

DO FDEP 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.	BARRINGTON	7/31/19	0705	19.13	755.4	7.38	7.33	99.4		105	P/F	L/P
ICV	↓	0705	0708	31.4	755.4	7.38	7.33	99.3	-	-	P/F	L/P
CCV	Garry Swartz	07/31/19	1630	33.4	754.9	7.16	6.96	97.6			P/F	L/P
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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	BARRINGTON	7/31/19	0711	2811660	11/20	50000	50,000	P/F	L/P
ICV	↓	↓	0714	2809050	9/20	10000	10,047	P/F	L/P
CCV	Garry Swartz	7/31/19	1625	2811666	11/20	50,000	50,230	P/F	L/P
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP 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.	BARRINGTON	7/31/19	0717	191304	3/21	6.98	31.9	6.98	-	P/F	L/P
Calibr.	↓	↓	0720	191303	3/21	4.01	31.9	4.01	-	P/F	L/P
Calibr.	↓	↓	0723	191040	3/21	10.95	31.9	9.93	-	P/F	L/P
ICV	↓	↓	0726	191303	3/21	4.01	31.9	4.02	-	P/F	L/P
CCV	Garry Swartz	7/31/19	1628	191040	3/21	10.95	33.3	9.85		P/F	L/P
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 DEP 355; Date of last verification: 6/18/19

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: