

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: KEYS

RQ: 2019-02-25-SU

Project: SMP - KEYS

- 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 12/26/18

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	02/26/19	0716	24.73	760	8.31	8.29	100.1	46.1	0.9425	P/F	L/F
ICV	"	02/26/19	0722	24.50	760	8.32	8.29	99.8	46.1		P/F	L/F
CCV	"	02/26/19	1748	25.73	760	8.14	8.21	100.4	47.1	0.9773	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	M. DUGAN	02/26/19	0712	281027	10/20	1000	1000	P/F	L/F
ICV	"	"	0713	2711027	11/19	50,000	49,870	P/F	L/F
CCV	"	02/26/19	1740	2711027	11/19	50,000	49,865	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	02/26/19	0723	185764	08/20	6.997	25.35	7.00	-6.8	P/F	L/F
Calibr.	"	"	0729	185488	08/20	4.011	25.75	4.00	157.8	P/F	L/F
Calibr.	"	"	0731	186877	10/20	10.013	25.41	9.99	-175.0	P/F	L/F
ICV	"	"	0732	185488	08/20	4.011	25.68	3.98	158.7	P/F	L/F
CCV	"	02/26/19	1752	181282	05/20	10.013	25.0	9.99	-173.8	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 81.8, slope from 4 to 7 164.6 (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: DEEPER Blue2 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: