

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: Kreys RQ: 2018-11-12-06 Project: SMP SCI

- 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 10/11/2018 MD

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.	Chase Conley	12/3/18	0750	24.72	760	8.31	8.29	99.8	51.2		☒ F	☒ F
ICV	Chase Conley	12/3/18	0752	24.55	760	8.34	8.31	99.7	51.2		☒ F	☒ F
CCV	M. DUGAN	12/03/18	1659	24.4	760	8.36	8.56	102	52.3		☒ F	☒ 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.	Chase Conley	12/3/18	0800	2803F43	3/20	1000	1000	☒ F	☒ F
ICV	Chase Conley	12/3/18	0802	2804A90	4/20	500	495	☒ F	☒ F
CCV	M. DUGAN	12/03/18	1649	2804A90	04/20	500	502	☒ F	☒ F
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.	Chase Conley	12/3/18	0805	181455	3/20	7.0	25.29	7.0	-13	☒ F	☒ F
Calibr.	Chase Conley	12/3/18	0807	183218	7/20	4.0	25.3	4.0	153	☒ F	☒ F
Calibr.	Chase Conley	12/3/18	0810	185490	9/20	10.0	24.9	9.98	-180	☒ F	☒ F
ICV	Chase Conley	12/3/18	0812	183218	7/20	4.0	24.9	3.9	160	☒ F	☒ F
CCV	M. DUGAN	12/03/18	1653	185490	09/20	10.0	24.59	9.96	-176.4	☒ F	☒ 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: Deeper Bluer; Date of last verification: 08/20/2018 MD

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: