

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

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

Meter ID: Key 5

RQ: 2018-03-03-S2

Project: SMP

- 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Gary Sudd	4/6/18	0714	23.5	8.5	8.5	100	51.2	9.97	P/F	L/F
ICV	Gary Sudd			23.3	8.3	8.4	100	51.2		P/F	L/F
CCV	Gary Sudd	4/6/18	1340	24.0	8.4	8.5	100	52.3		P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Gary Sudd	4/6/18	0719	170728C	8/18	10,000	10,010	P/F	L/F
ICV	Gary Sudd	4/6/18	0722	171211C	12/18	1000	1048	P/F	L/F
CCV	Gary Sudd	4/6/18	1345	171211B	12/18	100	100	P/F	L/F
CCV	Gary Sudd	4/6/18	1347	2706591	05/19	50,000	49425	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Gary Sudd	4/6/18	0725	176157	8/19	7.0	7.0	-16.3	P/F	L/F
Calibr.		4/6/18	0730	17238	10/19	4.0	4.0	158.3	P/F	L/F
Calibr.		4/6/18	0735	176507	9/19	10.0	10.0	-195.8	P/F	L/F
ICV		4/6/18	0740	17238	10/19	4.0	4.0	158.9	P/F	L/F
CCV		4/6/18	071350	176507	9/19	10.0	10.0	-194.5	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)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

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: