

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

Only "X" box
there is
guaranteed data on
this page.

Meter Biology 2

RQ- RQ-2016-07-11-28

Project SMP

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 06/03/2016

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.	Curtis Mussen	7/14/16	0711	23.04	8.578	8.57	100.0	46.1	—	P	L
ICV	Curtis Mussen	7/14/16	0712	23.05	8.582	8.57	100.0	46.1	—	P	L
CCV	Curtis Mussen	7/14/16	1445	28.0	7.81	8.24	100.1	82.1	—	Fail	LAB
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	Curtis Mussen	7/14/16	0714	160330D	04/2017	1000	1000	P	L
ICV	Curtis Mussen	7/14/16	0716	160330D	04/2017	1000	1000	P	L
CCV	Curtis Mussen	7/14/2016	1447	2601533	12/2017	100	100	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

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.	Curtis Mussen	7/14/16	0718	160330D	10/2017	7.000	7.00	-18.5	P	L
Calibr.	Curtis Mussen	7/14/16	0721	160330A	04/2017	4.01	4.01	158.6	P	L
Calibr.	Curtis Mussen	7/14/16	0723	160330C	10/2017	10.01	9.99	-189.3	P	L
ICV	Curtis Mussen	7/14/16	0725	160330C	10/2017	10.01	9.99	-189.4	P	L
CCV	Curtis Mussen	7/14/2016	1449	160330B	10/2017	7.000	7.07	-20.0	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater