

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

Meter Biology 2

RQ- 2016-07-25-47

Project SMP

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

- 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 Musson	7/27	0714	22.67	8.627	8.64	100.1	43.1	-	P	L
ICV	Curtis Musson	7/27/16	716	22.7	8.61	8.65	100.1	43.1	-	P	L
CCV	Curtis Musson	7/27/16	718	22.6	8.64	8.84	102.4	42.0	-	P	L
CCV	Curtis Musson	1502 7/27/16	25.3	8.22	9.02	109.8	39.0	-	-	Fail	L

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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	7/27/16	721	160330D	04/2017	1000	1000	P	L
ICV	Curtis Musson	7/27/16	722	160330D	04/2017	1000	1000	P	L
CCV	Curtis Musson	7/27/16	1505	2601533	12/2017	100	102	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 Musson	7/27/16	724	160330B	10/2017	7.000	7.00	-19.4	P	L
Calibr.	Curtis Musson	7/27/16	727	160330A	04/2017	4.01	4.01	159.0	P	L
Calibr.	Curtis Musson	7/27/16	730	160330C	10/2017	10.01	9.98	-189.8	P	L
ICV	Curtis Musson	7/27/16	732	160330A	4/2017	4.01	3.99	158.4	P	L
CCV	Curtis Musson	7/27/16	1508	160330C	10/2017	10.01	9.97	-189.2	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 $\pm 0.05\text{m}$, whichever is greater