

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 name.

Meter **Biology 2**

RQ- **2016-03-28-12**

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 **03/04/2016**

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	3/24/16	0727	21.35	8.85	8.85	100.0	41.0	—	Pass	LAB
ICV	Curtis Musson	3/29/16	0729	21.36	8.85	8.85	100.0	41.0	—	Pass	LAB
CCV	Ben Ralys	3/29/16	3:05	21.33	8.86	8.82	99.5	42.0	—	Pass	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 Musson	3/29/16	0732	CC14162	10/15/2016	996	996	P	L
ICV	Curtis Musson	3/29/16	0733	CC14162	10/15/16	996	997	P	LAB
CCV	Ben Ralys	3/29/16	3:06	CC13882	7/15/2016	101.1	100	P	Lab
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	3/29/16	0736	153035	07/2017	7.0	7.00	-6.6	P	LAB
Calibr.	Curtis Musson	3/29/16	0739	154634	07/2017	4.0	4.00	168.5	P	LAB
Calibr.						10.0				
ICV	Curtis Musson	3/29/16	0745	146934	10/2016	10.0	10.12	-187.2	P	LAB
CCV	Ben Ralys	3/29/16	3:08	154634	7/2017	4.0	4.09	164.7	P	Lab
CCV	Ben Ralys	3/29/16								

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