

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 **Biology #2**

RQ- **2016-10-17-54**

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 09/23/2016

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	10/20/16	7:12	22.02	8.744	8.75	100.1	33.9	—	P	LAB
ICV	Curtis Mussen	10/20/16	7:14	22.08	8.727	8.87	33.9	33.9	—	P	LAB
CCV							110.8				
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	10/20/16	7:32	160330D	4/20/17	1000	1000	P	LAB
ICV	Curtis Mussen	10/20/16	7:34	160330D	4/20/17	1000	1001	P	LAB
CCV	Curtis Mussen	10/21/16	8:49	2510F25	6/20/17	100	101	P	LAB
CCV				2510F25					

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	10/20/16	7:42	160330B	10/20/17	7.0	7.00	-29.7	P	L
Calibr.	Curtis Mussen	10/20/16	7:46	160330A	04/20/17	4.01	4.01	156.8	P	L
Calibr.	Curtis Mussen	10/20/16	7:47	160330C	10/20/17	10.01	9.98	189.9	P	L
ICV	Curtis Mussen	10/20/16	7:50	160330C	10/20/17	10.01	9.97	189	P	L
CCV	Curtis Mussen	10/21/16	8:52	160330A	4/20/17	4.01	4.02	154	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

Do

Cal. Curtis Mussen 10/20/16 7:52

Chart	Meter		Pass/Fail
	ms/L	% Sat	
Temp 22.13	8.727	100.0	LAB PASS

IcV

Curtis Mussen 10/20/2016
7:54

Temp	Chart	ms/L	%	LAB
22.06	8.727	8.71	99.7	PASS

CCV

Curtis Mussen 10/21/2016 8:46

Temp	Chart	Meter		LAB
		ms/L	% Sat	
21.20	8.710	8.95	100.7	PASS