

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

Pass
Boldly "X" this box if there is qualified signature on this name.

Meter Biology #2

RQ- 2016-08-15-75

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 Musson	8/17/16	0706	22.45	8.660	8.67	100.0	—	—	P	L
ICV	Curtis Musson	8/17/16	0707	22.45	8.660	8.71	100.5	51.2	—	P	L
CCV	Ben Tzalya	8/17/16	1515	23.4	8.51	9.33	109.6			F	L
CCV	Blake Spencer	8/18/16	0732	22.25	8.693	8.70	100	49.2	—	P	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	8/17/16	0710	160330D	4/2017	1000	1000	P	L
ICV	Curtis Musson	8/17/16	0711	160330D	4/2017	1000	1001	P	L
CCV	Curtis Musson	8/17/16	1522	2601533	12/2017	100	99	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	8/17/16	0713	160330B	10/2017	7.0	7.00	-20.0	P	L
Calibr.	Curtis Musson	8-17-16	0716	160330A	4/2017	4.01	4.01	158.9	P	L
Calibr.	Curtis Musson	8-17-16	0718	160330C	10/2017	10.01	9.98	-189.6	P	L
ICV	Curtis Musson	8-17-16	0719	160330C	10/2017	10.01	9.98	-189.4	P	L
CCV	Curtis Musson	8/17/16	1525	160330B	10/2017	7.00	7.06	-20.1	P	L
CCV	Blake Spencer	8/18/16	0732	CN						

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