

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- **2017-06-26-17**

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 03/06/2017 DT

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.	Diana Turner	6/28/17	6:57am	22.13	8.727	8.86	101.6	47.1	-	P	L
ICV	Diana Turner	6/28/17	6:58am	22.13	8.727	8.86	101.6	47.1	-	P	L
CCV	Diana Turner	6/28/17	2:08pm	23.1	8.562	8:35	97.5	45.9	-	P	L
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.	Diana Turner	6/28/17	7:04am	170310D	03/2018	1000	1000	P	L
ICV	Diana Turner	6/28/17	7:05am	170310D	03/2018	1000	1002	P	L
CCV	Diana Turner	6/28/17	2:12pm	170310E	03/2018	100	98.1	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.	Diana Turner	6/28/17	7:12am	170310B	03/2018	7.0	7.00	5.9	P	L
Calibr.	Diana Turner	6/28/17	7:16am	170310A	03/2018	4.01	4.01	174.5	P	L
Calibr.	Diana Turner	6/28/17	7:21am	161111C	05/2018	10.01	10.99	-157.2	P	L
ICV	Diana Turner	6/28/17	7:23am	161111C	05/2018	10.01	10.02	-158.6	P	L
CCV	Diana Turner	6/28/17	2:17pm	DT	03/2018	4.01	4.04	172.2	P	L
CCV				170310A						

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