

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 ID: DEP #154181 RQ: 2018-10-08-16 Project: LSSR WEST SITE AND MILL LOG

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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

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.	PO'Connor	10-15-18	0650	23.4	8.51	8.51	100.0	—	—	(P) F	(L) F
ICV	PO'Connor	10-15-18	0655	23.5	8.49	8.48	99.9	—	—	(P) F	(L) F
CCV	J.Parnish	10/15/18	1440	24.2	8.39	8.44	100.2	—	—	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	PO'Connor	10-15-18	0651	180711A	01-2019	1000	1000	(P) F	(L) F
ICV	✓	✓	0659	180321A	04-2019	100	100.4	(P) F	(L) F
CCV	J.Parnish	10/16/18	1442	1470718	12/18	147	150	(P) F	(L) F
CCV								P / F	L / F

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.	PO'Connor	10-15-18	0701	2803E45	03-2020	7.0	7.00	-24.8	(P) F	(L) F
Calibr.	✓	✓	0710	2806915	06-2020	4.0	4.00	157.0	(P) F	(L) F
Calibr.	✓	✓	0713	2812B55	06-2019	10.0	9.97	-196.1	(P) F	(L) F
ICV	✓	✓	0717	2803E45	03-2020	7.00	7.04	-23.8	(P) F	(L) F
CCV	J.Parnish	10/15/18	1448	28064756	6/20	4.0	4.16	N/A	(P) F	(L) F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification 10-10-18

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass/ Fail	Lab/ Field
Pressure mode in air	PO'Connor	1	0650	PO		P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

QC / Scanned BD 10/23/18 JP 10/19/18