

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: **155077**

RQ: **2021-02-15-28**

Project: **SMP**

- 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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification **2/9/21**

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	S. Node	2/17/20	0716	16.9	765.7	9.8	9.76	100.1	-	-	P/F	L/F
ICV	S. Node	2/17/20	0718	16.9	765.3	9.7	9.76	100.1	-	-	P/F	L/F
CCV	M. King	2/17	1400	15.1	760.9	10.1	10.13	100.6			P/F	L/F
CCV											P/F	L/F

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 (Pro: DSS 0.75 to 1.50); 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.	S. Node	2/17/20	0727	201013A	10/2021	100	100	P/F	L/F
ICV	S. Node	2/17/20	0729	200124B	02/2021	1000	958	P/F	L/F
CCV	S. Node	2/17/20	1405	201013A	10/2021	100	101.6	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	S. Node	2/17/20	0732	202114	05/2022	7.	16.9	7.03	-29.9	P/F	L/F
Calibr.	S. Node	2/17/20	0734	203620	06/2022	4.	16.2	4.00	145.1	P/F	L/F
Calibr.	S. Node	2/17/20	0736	201473	05/2022	10.	16.3	10.11	-203.2	P/F	L/F
ICV	S. Node	2/17/20	0738	203620	06/2022	4.0	15.9	3.92	148.8	P/F	L/F
CCV		2/17	1410	203620		4.0				P/F	L/F
CCV			1410	201473	05/2022	10	17.9	10.11	-204.3	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 **173.3**, slope from 4 to 7 **175** (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? **YES** / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: **2/9/21**

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

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	S. Node	2/17/20	0739	0.000	0.000	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.

REMARKS: