

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: SNEK RQ- 20 Project: CCHMN

- 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 12/20/19

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.	Gary Sward	02/20/19	0717	24.2	763.9	8.39	8.42	100.5		1.015540	P/F	L/F
ICV	Gary Sward	02/20/19	0750	23.9	763.9	8.43	8.46	100.4			P/F	L/F
CCV	N. Reistad	02/20/19	1631	25.0	763.4	8.32	8.28	100.1			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 (Pro DSS 0.75 to 1.50); 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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	Gary Sward	02/20/19	0724	2810627	10/20	1000	1000	P/F	L/F
ICV	Gary Sward	02/20/19	0745	280884	07/20	100	101.2	P/F	L/F
CCV	N. Reistad	02/20/19	1624	2711027	11/19	50,000	48206	P/F	L/F
CCV							48206	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.	Gary Sward	02/20/19	0730	185764	8/20	6.99	24.5	6.88	-3.7	P/F	L/F
Calibr.		02/20/19	0735	185482	08/20	4.01	24.9	3.94	171.7	P/F	L/F
Calibr.		02/20/19	0740	185490	09/20	10.01	24.8	9.89	-180.4	P/F	L/F
ICV		02/20/19	0755	185488	08/20	4.01	24.9	4.02		P/F	L/F
CCV	N. Reistad	02/20/19	1624	185490	09/20	10.023	24.5	10.04		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)

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: _____
 If NO, what will be used? (circle one) **Sacchi Disk Line** / Sonar Unique ID: 3212B; Date of last verification: 12/26/18

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						P/F	L/F

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

COMMENTS: