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: President Caramach RQ- 2022-08-22-12 Project: Refrence Lake

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 07/13/22

DO DEP SOP FT 1500	Name	Date	Time 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.	Thomas Baker	09/22/22	0701	23.1	758.1	8.6	8.55	99.7		1.0232	P / F	L / F
ICV	Thomas Baker	09/22/22	0702	23.1	758.1	8.6	8.57	100.1			P / F	L / F
CCV	William Miller	09/22/22	1339	22.2	757.9	8.7	8.70	99.9			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 ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	09/22/22	0705	2208A58	07/24	2500	2500	P / F	L / F
ICV	Thomas Baker	09/22/22	0708	2112E28	12/23	100	98.2	P / F	L / F
CCV	William Miller	09/22/22	1341	2208A58	07/24	2500	2497	P / F	L / F
CCV	William Miller	09/22/22	1343	2112E28	12/23	100	98.0	P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	09/22/22	0711	2204 2205ES4	5/24	7.00	23.7	7.01		P / F	L / F
Calibr.	↓	↓	0713	2206A61	5/24	4.00	22.4	4.00		P / F	L / F
Calibr.	↓	↓	0715	2204H72	10/23	10.02	22.2	10.04		P / F	L / F
ICV	Thomas Baker	09/22/22	0716	2206A61	5/24	4.00	22.1	3.99		P / F	L / F
CCV	William Miller	09/22/22	1345	2204H72	10/23	10.04	21.6	10.14		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 ± 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) **Secchi Disk Line** / **Sonar** Unique ID: 9312A ; Date of last verification: 08/29/22

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time 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 ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: