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: Hach RQ-2023-10-09-40 Project: LSSR South Lakes

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 _____

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.	K·Halbert	10/18/23	822	22.1	764.8	8.8	—	100.6	—	1.070	(P) / F	(L) / F
ICV	K·Halbert	10/18/23	827	22.0	764.7	8.8	~~8.86~~ 8.84	100.5	—	1.070	(P) / F	(L) / F
CCV	JPunsch	10/18/23	1531	21.8	764	8.8	8.88	102.5	—	—	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	K·Halbert	10/18/23	828	2306128	6/24	1000	1000	(P) / F	(L) / F
ICV	K·Halbert	10/18/23	831	2301314	2/24	100	99.9	(P) / F	(L) / F
CCV	JPunsch	10/18/23	1530	ZZ102818	11/23	1413	1401	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	K·Halbert	10/18/23	835	M241-15	9/24	7.01	22.4	7.01	-55.9	(P) / F	(L) / F
Calibr.	K·Halbert	10/18/23	837	4304354	4/25	4.00	22.4	4.00	179.7	(P) / F	(L) / F
Calibr.	K·Halbert	10/18/23	839	M334-14	11/24	10.03	22.4	10.03	-256	(P) / F	(L) / F
ICV	K·Halbert	10/18/23	842	4304354	4/25	4.00	22.4	3.99	179.8	(P) / F	(L) / F
CCV	JPunsch	10/18/23	1532	M334-14	11/24	10.00	22.4	9.98	-224	(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 10 179.4, slope from 4 to 7 175.6 (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: 09/08/2023
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	K·Halbert	10/18/23	857	0.000	0.000	(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: