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: Anvil RQ- 2021-09-2739 (2021-07-19-34) Project: HAB / 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 7/22/21

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.	Andrew Luering	9/27/2021	722	22.6	757	8.6	8.58	99.5%	—	1.06	P / F	L / F
ICV	" "	" "	724	22.8	757	8.6	8.57	99.6%	—	1.06	P / F	L / F
CCV	" "	" "	1541	27.1	755	7.9	7.92	99.5%	—	1.06	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.	Andrew Luering	9/27/21	727	1108FS1	8/2023	1000	1004	P / F	L / F
ICV	" "	" "	730	1102792	1/2023	100	101.0	P / F	L / F
CCV	" "	" "	1543	1105C52	5/2023	5000	4955	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.	Andrew Luering	9/27/21	731	210039	10/2023	7.0	23.6	7.08	-31.6	P / F	L / F
Calibr.	" "	" "	734	2107E46	7/2023	4.0	23.5	4.03	148.3	P / F	L / F
Calibr.	" "	" "	737	2012C64	6/2022	10.0	23.7	10.01	-204.1	P / F	L / F
ICV	" "	" "	739	2012C64	6/2022	10.0	23.7	9.98	-204.2	P / F	L / F
CCV	" "	" "	1544	2107E46	7/2023	4.0	23.6	3.99	148.1	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 ±172.5, slope from 4 to 7 ±179.9 (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: 7/22/21
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	Andrew Luering	9/27/21	~~0~~ EC 0.741	0.00	0.00	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: