2022-08-29-42

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

~~2022-12-2-33~~

Meter ID: Anya RQ- 2023-01-02-13 Project: Any SMP

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

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 1/3/2023

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	1/4/23	709	22.4	764	8.7	8.71	100.5	–	1.09	(P)/ F	(L)/ F
ICV	" "	"	710	22.4	764	8.7	8.71	100.4	–	1.09	(P)/ F	(L)/ F
CCV	" "	" "	1447	~~24.0~~	763	8.4	8.38	99.8	–	1.09	P / F	L / F
CCV			24.2	~~24.1~~							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 ~~712~~	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Andrew Luering	1/4/23	~~712~~	220725C	8/2023	1000	1000	(P)/ F	(L)/ F
ICV	" "	" "	716	220328C	4/2023	100	103.2	(P)/ F	(L)/ F
CCV	" "	" "	1451	220328B	4/2023	5,000	5,004	(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	1/4/23	718	220725B	2/2024	7.0	23.6	7.01	-19.5	(P)/ F	(L)/ F
Calibr.	" "	" "	721	221122	6/2024	4.0	23.4	4.00	157.1	(P)/ F	(L)/ F
Calibr.	" "	" "	723	207460	2/2023	10.0	23.4	10.02	-192.8	(P)/ F	(L)/ F
ICV	" "	" "	725	207460	2/2023	10.0	23.4	9.99	-191.5	(P)/ F	(L)/ F
CCV	" "	" "	1453	221122	6/2024	4.0	23.1	3.98	159.1	(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, slope from 4 to 7 176 (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: 1/3/2023
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	Andrew Luering	1/4/23	727	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: