OMS
2022-01-31-59

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

2022-03-14-25

Meter ID: Aqua RQ- 2202 Project: 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 1/18/2022

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	3/14/22	717	19.9	761	9.1	9.10	100.2%	—	1.07	(P)/F	(L)/F
ICV	" "	" "	720	20.2	762	9.1	9.06	100.1%	—	1.07	(P)/F	(L)/F
CCV	S Fischer	" "	1300	22.9	763	8.6	8.63	100.5	—	1.07	(P)/F	(L)/F
CCV	D. Liddick	"	1800	22.5	763	8.6	8.6	100.1	—	1.07	(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	3/14/22	726	1105C52	5/2023	5000	5000	(P)/F	(L)/F
ICV	" "	" "	731	1102712	1/2023	100	100.5	(P)/F	(L)/F
CCV	S Fischer	" "	1302	1105C52	05/23	5000	5005	(P)/F	(L)/F
CCV	Drew Liddick	"	1804	1105C51	05/23	50,000	49,979	(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	3/14/22	735	217473	10/2023	7.0	21.3	-48.1	7.02	(P)/F	(L)/F
Calibr.	" "	" "	739	2110040	9/2023	4.0	21.3	131.5	4.00	(P)/F	(L)/F
Calibr.	" "	" "	743	1106829	11/2022	10.0	21.3	-219.5	10.04	(P)/F	(L)/F
ICV	" "	" "	745	1106829	11/2022	10.0	21.3	-219.7	10.02	(P)/F	(L)/F
CCV	S Fischer	" "	1304	2060704	11/22	4.0	21.7	174.8	4.10	(P)/F	(L)/F
CCV	D. Liddick	"	1808	2110040	09/23	4.0	21.6	4.0	132.1	(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 10 171.4, slope from 4 to 7 179.6 (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: 01/18/22
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	3/14/22	749	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: