RQ-2021-05-10-58

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-ID: ~~2021-05-10-01~~ 2021-05-10-57 Project: HMP

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 04/26/2021

DO DEP SOP FT 1500	Name	Date 05/27	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.	D. Liddick	05/27	0930	23.4	759	8.5	8.52	100	—	1.06	(P) F	(L) F
ICV	〃	〃	0932	23.4	759	8.5	8.52	100	—	1.06	(P) F	(L) F
CCV	〃	〃	1623	23.4	759	8.5	8.52	99.1	—	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.	D. Liddick	05/27	0934	1102199	01/23	1000	1000	(P) F	(L) F
ICV	〃	〃	0936	1102792	01/23	100	100	(P) F	(L) F
CCV	〃	〃	1626	1107644	06/23	100,000	100,001	(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.	D. Liddick	05/27	0938	2101807	12/22	7.0	23.4	7.01	-16.9	(P) F	(L) F
Calibr.	〃	〃	0940	2011891	10/22	4.0	23.3	3.92	162.7	(P) F	(L) F
Calibr.	〃	〃	0942	2014473	05/22	10.0	23.5	9.99	-187.9	(P) F	(L) F
ICV	〃	〃	0944	2014473	05/22	10.0	23.5	10.00	-188.0	(P) F	(L) F
CCV	〃	〃	1628	2011891	10/22	4.0	23.3	4.01	162.5	(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 = 171, 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: 04/26/2021
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	D. Liddick	05/27		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:

Form effective August 1, 2018