

RQ-2017-08-28-43

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

~~Boldly "X" this box if there is qualified data on this name~~

Meter ID:

7

Project:

Smp Keys

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

7/27/17

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Paswater	8/1	830	29.1	100.0	7.68	100.0	52.6		P F	L F
ICV	Ben Paswater	8/30/17		29.5	7.63	7.64	100.1	52.3		P F	L F
CCV	Ben Paswater	8/30/17	1750	25.8	8.143	9.11	111.9	50		P F	L F
CCV										P F	L F

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time (ET)	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Paswater	8/1	832	170421A	5/18	10,000	9999	P F	L F
ICV	Ben Paswater	8/30/17		2511C38	11/17	50,000	49638	P F	L F
CCV	Ben Paswater	8/30/17	1753	2511C38	11/17	50,000	49610	P F	L F
CCV								P F	L F

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Paswater	8/1	833	164224	6/18	7.0	7.00	42	P F	L F
Calibr.	Ben Paswater	8/30/17	834	161267	12/17	4.0	4.00	158	P F	L F
Calibr.	Ben Paswater	8/30/17	835	16126C	6/18	10.0	9.98	141	P F	L F
ICV	BP	8/30/17	836	161267	12/17	4.0	3.92	155	P F	L F
CCV	Chase Conkey	8/30/17	1755	161216C	6/18	10.0	10.1	-149	P F	L F
CCV									P F	L F

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$;
 mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Notes:

DO membrane damaged in field