

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:

113529 WB 11/30/17

RQ:

2017-11-20-11

Project:

SMP Freepoint

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.

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

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

9/20/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.										P / F	L / F
ICV										P / F	L / F
CCV	Whitney Betana	11/30/17	740	21.39	8.846	8.85	100.3	NA	1.03	(P) F	(L) F
CCV	WB	11/30/17	1700	22.59	8.644	8.69	100.5	NA	1.03	(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; 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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	WB	11/30/17	740	KC117-4	9/30/18	1413	1413	(P) F	(L) F
ICV	WB	11/30/17	740	2608888	7/1/2018	100	101	(P) F	(L) F
CCV	WB	11/30/17	1706	KC117-4	9/30/18	1413	1406	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	WB	11/30/17	750	2610963	10/30/18	7.0	7.0	539.0 511.3	(P) F	(L) F
Calibr.	WB	11/30/17	805	2611883	10/30/18	4.0	4.0	142.7	P / F	(L) F
Calibr.	WB	11/30/17	815	2611A79	5/1/2018	10.0	10.0	-204.0	P / F	(L) F
ICV	WB	11/30/17	815	2611883	10/30/18	4.0	4.01	141.6	(P) F	(L) F
CCV	WB	11/30/17	1708	2610963	10/30/18	7.0	7.08	-35.7	(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 $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 172, slope from 4 to 7 174.7 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: Changed pH probe with a used probe because single point calibration was out of limits for mV.