

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: 132237 RQ: 2018-03-26-15 Project: SMP Egl.

- 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 1/22/18

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	J. Pass	3/26/18	0730	23.3	8.530	8.58	101	—	1.01	Ⓟ / F	Ⓟ / F
CCV	J. Pass	3/26/18	1520	20.8	8.950	8.93	100	—	—	Ⓟ / F	Ⓟ / 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. Pass	3/26/18	0731	180124B	2/2019	1000	1000	Ⓟ / F	Ⓟ / F
ICV	↓	↓	0741	180124C	2/2019	19000	9832	Ⓟ / F	Ⓟ / F
CCV	J. Pass	3/26/18	1522	180124A	2/2019	100	96	Ⓟ / F	Ⓟ / 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.	J. Pass	3/26/18	0742	2610663	10/2018	7.0	7.0	-31.4	Ⓟ / F	Ⓟ / F
Calibr.	↓	↓	0743	4712981	11/2019	4.0	4.0	145.6	Ⓟ / F	Ⓟ / F
Calibr.	↓	↓	0744	2209903	5/2019	10.0	10.0	-201.5	Ⓟ / F	Ⓟ / F
ICV	↓	↓	0745	2209903	5/2019	10.0	10.0	—	Ⓟ / F	Ⓟ / F
CCV	J. Pass	3/26/18	1524	4712981	11/2019	4.0	4.1	—	Ⓟ / F	Ⓟ / 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 10 170.1, slope from 4 to 7 177.0 (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 1/22/18

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	J. Pass	3/26/18	0747	0.00	0.00	Ⓟ / F	Ⓟ / F

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

COMMENTS:

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 page.

Meter ID: 113529 RQ: 2018-03-26-16 Project: SMP

- 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 1/29/18

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	W Bretana	3/26/18	822	20.26	9.039	9.00	99.4	—	1.03	☒ F	☒ F
CCV	W Bretana	3/26/18	1455	19.85	9.111	9.21	100.7	—	1.03	☒ F	☒ F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	W Bretana	3/26/18	825	180124B	2/19	1000	1000	P / F	☒ F
ICV	W Bretana	3/26/18	826	180124A	2/19	100	98	☒ F	☒ F
CCV	W Bretana	3/26/18	1456	180124A	2/19	100	101	☒ F	☒ 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.	W Bretana	3/26/18	841	2610963	10/18	7.0	7.00	-33.5	P / F	☒ F
Calibr.	W		843	4712981	11/19	4.0	4.00	172.4	P / F	☒ F
Calibr.			844	2611A79	5/18	10.0	10.00	-175.2	P / F	☒ F
ICV			846	4712981	11/19	4.0	4.01	171.3	☒ F	☒ F
CCV	W Bretana	3/26/18	1458	2610963	10/18	7.0	7.09	-69	☒ F	☒ 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 10 172.9, 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.