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: 132237 **RQ-** 2018-03-26-18 **Project:** SMP Period

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. Phas	3/27/18	0715	22.1	8.727	8.75	100	—	1.01	(P) / F	(L) / F
CCV	J. Phas	3/27/18	1430	20.7	8.968	8.98	100	—	—	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Phas	3/27/18	0717	180124B	2/2019	1000	1000	(P) / F	(L) / F
ICV	↓	↓	0719	180124A	2/2019	100	95	(P) / F	(L) / F
CCV	J. Phas	3/27/18	1432	180124D	2/2019	50,000	47,994	(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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. Phas	3/27/18	0721	1710655	10/2019	7.0	7.0	-31.7	(P) / F	(L) / F
Calibr.	↓	↓	0723	4712981	11/2019	4.0	4.0	144.1	(P) / F	(L) / F
Calibr.	↓	↓	0725	2709903	3/2019	10.0	10.0	-201.9	(P) / F	(L) / F
ICV	↓	↓	0727	2709903	3/2019	10.0	10.0	—	(P) / F	(L) / F
CCV	J. Phas	3/27/18	1434	4712981	11/2019	4.0	4.0	—	(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 10 170.7, slope from 4 to 7 175.8 (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. Phas	3/27/18	0729	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:

Boldly "X" this box if there is qualified data on this page.

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

Meter ID: 113529 RQ- 2018-03-26-17 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	S. Slade	3/27/18	0807	22.54	8.66	8.70	100.5	N/A	1.03	(P) F	(L) F
CCV	W. Bretana	3/27/18	1415	9.164	9.165	9.21	100.8	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	S. Slade	3/27/18	0811	180124B	Feb 2019	1000	1000	(P) F	(L) F
ICV	S. Slade	3/27/18	0813	180124A	Feb 2019	100	101	(P) F	(L) F
CCV	W Bretana	3/27/18	1416	180124A	Feb 2019	100	97	(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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	S. Slade	3/27/18	0815	1710G55	OCT 2019	7.0	7.00	-6.2	(P) F	(L) F
Calibr.	↓	↓	0817	4712981	NOV 2019	4.0	4.00	168.9	(P) F	(L) F
Calibr.			0818	2709903	Mar 2019	10.0	9.98	-174.6	(P) F	(L) F
ICV	↓	↓	0820	4712981	NOV 2019	4.0	4.00	167.9	(P) F	(L) F
CCV	W Bretana	3/27/18	1418	1710G55	OCT 2019	7.0	7.08	-8.7	(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 168.4, slope from 4 to 7 175.1 (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 ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: