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- 2018-03-19-25 Project: SMP- Ballaston Broadmt.

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 _____

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	F. Butera	3/22/18	7:20	21.57	8.812	8.84	100.3	—	1.01	(P) F	L / F
CCV	m Kmy	3/22	1725	17.84	9.506	9.42	995			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.	F. Butera	3/22/18	7:23	1801048	2/2019	1000	1000	(P) F	(L) F
ICV	↓	↓	7:25	180124A	2/2019	1000	98	P / F	L / F
CCV	m	3/22	1730	180124A	02/2019	~~102~~ 100 µm	102	(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.	F. Butera	3/22/18	7:30	~~4712481~~ 2610663	~~11/19~~ 10/18	7.0	7.0	-32.5	(P) F	(L) / F
Calibr.	↓	↓	7:33	4712481	11/19	4.0	4.0	144.5	(P) F	(L) F
Calibr.			7:35	2709903	03/19	10.0	10.0	-202.6	(P) / F	(L) F
ICV	↓	↓	7:38	4712481	11/19	4.0	4.06	170.1	(P) F	(L) F
CCV	m m	3/22	1735	2709903	03/19	10.0	10.06	205.1	(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 10 170.1, slope from 4 to 7 177.4 (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 1/22/2018

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	F. BUTERA	3/22/18	7:43	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: 13529 RQ- 2018-03-19-22 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.	J. Phillips									P / F	L / F
ICV										P / F	L / F
CCV	J. Phillips	3/22/18	0745	19.57	9.165	9.24	101	—	1.03	(P) F	(L) F
CCV	J. Phillips	3/22/18	1500	17.9	9.486	9.49	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. Phillips	3/22/18	0747	180124B	2/2019	1000	1000	(P) F	(L) F
ICV	"	"	0749	180124C	2/2019	10,000	9695	(P) F	(L) F
CCV	J. Phillips	3/22/18	1502	180124A	2/2019	100	96	(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. Phillips	3/22/18	0751	2610G63	10/18	7.0	7.0	-44.4	(P) F	(L) F
Calibr.	"	"	0753	4712981	11/19	4.0	4.0	133.5	(P) F	(L) F
Calibr.	"	"	0755	2709903	3/19	10.0	10.0	-212.0	(P) F	(L) F
ICV	"	"	0757	2709903	3/19	10.0	10.0	—	(P) F	(L) F
CCV	J. Phillips	3/22/18	1504	4712981	11/19	4.0	4.1	—	(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 10 167.6, slope from 4 to 7 177.9 (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 ~~1/29/18~~

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						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: