

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: 2018-04-23-25 Project: SMP - Pace

- 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 4/19/18

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. P. H. S.	4/23/18	0740	23.5	8.498	8.46	100	—	1.02	<u>P</u> / F	<u>L</u> / F
CCV	J. P. H. S.	4/23/18	1350	23.2	8.546	8.61	101	—	—	<u>P</u> / F	<u>L</u> / 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.	J. P. H. S.	4/23/18	0742	180124B	2/2019	1000	1000	<u>P</u> / F	<u>L</u> / F
ICV	↓	↓	0743	180124C	2/2019	10,000	9720	<u>P</u> / F	<u>L</u> / F
CCV	J. P. H. S.	4/23/18	1352	180329	4/2019	100	97	<u>P</u> / F	<u>L</u> / 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. P. H. S.	4/23/18	0745	1710655	10/2019	7.0	7.0	-34.3	<u>P</u> / F	<u>L</u> / F
Calibr.	↓	↓	0747	4712981	11/2019	4.0	4.0	142.8	<u>P</u> / F	<u>L</u> / F
Calibr.	↓	↓	0749	2709903	3/2019	10.0	10.0	-204.1	<u>P</u> / F	<u>L</u> / F
ICV	↓	↓	0751	2709903	3/2019	10.0	10.0	-204.2	<u>P</u> / F	<u>L</u> / F
CCV	J. P. H. S.	4/23/18	1354	4712981	11/2019	4.0	4.0	—	<u>P</u> / F	<u>L</u> / 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 10 169.8, slope from 4 to 7 177.1 (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 4/19/18

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. P. H. S.	4/23/18	0753	0.00	0.00	<u>P</u> / F	<u>L</u> / 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 name.

Meter ID: 132257

RQ: 1218-04-01-35

Project: SMP B.0

- 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 4/19/18

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. P. 125	4/24/18	0725	22.3	8693	8.65	100	-	1.02	(P) / F	(L) / F
CCV	J. P. 125	4/24/18	1700	22.1	8727	8.75	100	-	-	(P) / F	(L) / 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J. P. 125	4/24/18	0727	18014B	2/2019	1000	1000	(P) / F	(L) / F
ICV	↓	↓	0729	18014C	2/2019	10000	9720	(P) / F	(L) / F
CCV	J. P. 125	4/24/18	1702	180329	4/2019	100	102	(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.	J. P. 125	4/24/18	0731	1710655	10/2019	7.0	7.0	-33.3	(P) / F	(L) / F
Calibr.	↓	↓	0733	4712981	11/2019	4.0	4.0	144.2	(P) / F	(L) / F
Calibr.	↓	↓	0735	2709903	3/2019	10.0	10.0	-203.7	(P) / F	(L) / F
ICV	↓	↓	0737	2709903	3/2019	10.0	10.0	-	(P) / F	(L) / F
CCV	J. P. 125	4/24/18	1704	4712981	11/2019	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 $\pm 180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 170.4, slope from 4 to 7 177.5 (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 4/19/18

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. P. 125	4/24/18	0739	0.00	0.00	(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: