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: QUANTA #1 RQ- 2018-03-05-23 Project: SJW North-Santa Fe

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 01-10-18

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 O'Connor	03-12-18	0720	22.6	8.64	8.61	100.1	—	—	(P) / F	(L) / F
ICV	↓	↓	0723	22.7	8.62	8.61	100.1	—	—	(P) / F	(L) / F
CCV	P O'Conn	03-12-18	1703	22.1	8.72	8.50	97.4	—	—	(P) / F	(L) / F
CCV										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.	P O'Connor	03-12-18	0725	171129A	12-2018	1000	1000	(P) / F	(L) / F
ICV	↓	↓	0728	170315A	03-2018	100	98	(P) / F	(L) / F
CCV	O'Connor	03-12-18	1706	171129A	12-2018	1000	991	(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.	P O'Connor	03-12-18	0730	2709B15	09-2019	7.0	7.00	—	(P) / F	(L) / F
Calibr.	↓	↓	0733	2711517	10-2019	4.0	4.00	—	(P) / F	(L) / F
Calibr. TCV	↓	↓	0734	2708A21	01-2019	10.0	9.94	—	(P) / F	(L) / F
ICV CCV	P. O'Connor	03-12-18	1710	2709B15	09 2019	7.0	7.05	—	(P) / F	(L) / F
CCV									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 N/A, slope from 4 to 7 N/A (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	N/A					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:
QC/Scanned BD 3/23/18 JP 3/16/18

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: YSI "A" RQ- 2018-03-05-21 Project: SANITARY SCI

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 1/2018

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 Parrish	3/12/18	741	22.4	8.67	8.67	100	—	—	P / F	L / F
ICV	"	"	742	22.5	8.66	8.66	100	—	—	P / F	L / F
CCV	J Parrish	3/12/18	1714	22.4	8.67	8.61	99.1	—	—	P / F	L / F
CCV										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 Parrish	3/12/18	745	171129A	12/18	1000	1000	P / F	L / F
ICV	"	"	747	8147200	3/18	147	151	P / F	L / F
CCV	J Parrish	3/12/18	1715	1703154	3/18	102	103	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 Parrish	3/12/18	748	2709B15	9/19	7.0	7.0	—	P / F	L / F
Calibr.	"	"	745	2711517	10/19	4.0	4.0	157.2	P / F	L / F
Calibr.	"	"	751	2708A21	1/19	10.0	9.98	161.4	P / F	L / F
ICV	"	"	~~751~~	2709B15	9/19	7.0	6.98	1	P / F	L / F
CCV	J Parrish	3/12/18	817	2711517	10/19	4.0	4.00	156.1	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 _____, slope from 4 to 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	J Parrish	3/12/18	752	0.0	0.0	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:
QC/Scanned BT 3/23/18 JP 3/16/18