

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 YSI #4

RQ- 2017-11-06-16

Project 1-1-1

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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

10/10/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Pass / Fail	Lab / Field
Calibr.	PO Conn	11-06-17	0720	22.7	8.62	8.62	99.9	57.4	0.95761	P L
ICV	↓	↓	0725	22.8	8.61	8.59	99.8	57.4	0.95761	P L
CCV	PO Conn	11-06-17	1450	29.5	7.6	7.70	106.1	58.4	0.95761	P L
CCV	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	PO Conn	11-06-17	0728	170720A	08-2018	1000	1000	P	L
ICV	↓	↓	0730	170720B	08-2018	100	104	P	L
CCV	PO Conn	11-06-17	1435	170720A	08-2018	1000	997	P	L
CCV	↓	↓	↓	↓	↓	↓	↓	↓	↓

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading mV	Pass / Fail	Lab / Field
Calibr.	PO Conn	11-06-17	0735	2708860	07-2019	7.0	7.00	P	L
Calibr.	↓	↓	0738	2710816	09-2019	4.0	4.00	P	L
Calibr.	↓	↓	0742	2704798	09-2018	10.0	9.98	P	L
ICV	↓	↓	0745	2708860	07-2019	7.0	7.04	P	L
CCV	PO Conn	11-06-17	1440	2704798	09-2018	10.00	9.98	P	L
CCV	↓	↓	1635	2710816	09-2019	4.00	4.05	P	L

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180mV

Depth (Quarterly)

Date of Last Depth Verification

10-10-2017

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

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

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Meter Quanta RQ- 2017-11-06-31 Project LSJR S 1

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 L & C

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 1/1

DO FDEP 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.	B - D -	11/6/17	742	23.8	8.44	8.44	100	-	-	P	L
ICV			743	23.8	8.44	8.45	99.9	-	-	P	L
CCV			1150	22.5	8.66	8.38	96.8	-	-	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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.	B - D -	11/6/17	748	1707204	8/18	1000	1000	P	L
ICV			750	170720B	8/18	100	100	P	L
CCV			1152	1707204	8/18	1000	991	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B - D -	11/6/17	500	2708860	7/19	7.0	7.0	-	P	L
Calibr.			805	2708816	9/19	4.0	4.0	-	P	L
Calibr.			811	2704798	9/18	10.0	10.1	-	P	L
ICV			1155	2708860	7/19	7.0	6.98	-	P	L
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab/ Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater