

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 YSI #4 RQ- 2017-09-25-17 Project LSJR Southside

- 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 5/31

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.	B-P	9/20	736	23.0	8.58	8.57	100	584	0.998	P	L
ICV			837	23.1	8.56	8.55	99.8	59.4	0.998	P	L
CCV	Kalmbacher	9-20-17	1425	25.2	8.23	8.21	99.6	61.4	0.998	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-P	9/20	743	170720A	8/18	1000	1000	P	L
ICV			746	170720B	8/18	100	104	P	L
CCV	Kalmbacher	9-20-17	1430	170720A	8/18	1,000	996	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 SU	mV	Pass / Fail	Lab / Field
Calibr.	B-P	9/20	753	1607A12	6/18	7.0	7.0	-23.5	P	L
Calibr.			756	2707722	6/19	4.0	4.0	156.2	P	L
Calibr.			800	2704798	9/18	10.0	9.98	-196.0	P	L
ICV			807	1607412	6/18	7.0	7.04	-23.2	P	L
CCV	Kalmbacher	9-20-17	1432	1607A12	6/18	7.0	7.09	-24.5	P	L
CCV										

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

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

mV pH 10 Range -180 ± 50 ;

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

Depth (Quarterly)

Date of Last Depth Verification 5/31

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)

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

Meter

YSI # 3

2017-09-18-33 L5JR5W

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

5/31/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Jerem Parish	9/20/17	733	23.0	8.58	8.58	100	57.4		P	L
ICV	J	2	735	23.0	8.58	8.58	100	58.4		P	L
CCV	J	9/20/17	1455	24.9	8.28	8.5	1025	58.4		P	L

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 Parrish	9/20/17	738	17020A	8/18	1000	1000	P	L
ICV	J	2	740	17020B	8/18	100	102	P	L
CCV	J	9/20/17	741	8.4 720.7	3/18	147	144	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

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	9/20/17	747	1607412	6/18	7.0	7.0	-26.4	P	L
Calibr.	J		748	2707722	6/19	4.0	4.0		P	L
Calibr.	J		744	2704798	9/18	10.0	9.98		P	L
ICV	J		750	1807412	6/18	7.0	7.01		P	L
CCV	J		1507	2704798	9/18	10.0	9.96		P	L
CCV										

mV pH 10 Range -180 $\pm$ 50; pH acceptance criteria +, - 0.2

mV pH 7 Range 0 $\pm$ 50;

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

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