

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 151 # 3

2017-09-04-21

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.	J Purnh	9/21/17	721	23.2	8.55	8.55	100	58.4		P	L
ICV	J	J	723	23.3	8.53	8.46	99.2	58.4		P	L
CCV	B Davis	9/21/17	1504	24.2	8.58	8.24	98.1	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 Purnh	9/21/17	725	170720A	8/18	1000	1000	P	L
ICV	J	9/21/17	726	81472017	3/18	147	143	P	L
CCV	B Davis	9/21/17	1505	170720A	8/18	1000	999	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 P	9/21/17	729	1657A12	6/18	7.0	7.00	-24.7	P	L
Calibr.	J		730	2707722	1/19	4.0	4.00	141.0	P	L
Calibr.	J		731	2704798	9/18	10.0	10.00	188.7	P	L
ICV	J		732	2707722	1/19	4.0	3.95	141.4	P	L
CCV	B Davis	9/21/17	1507	2704798	9/18	10.0	9.90	-185.3	P	L
CCV										

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

mV pH7 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	J P	9/21/17	733	0.000	0.10	P	L

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 YSI #4 RQ- 2017-09-11-39 Project LSJR Downtown

- 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

6/11/2017

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.	N. Fredrick	9/21/17	23:05	0745	8.57	8.56	99.9	59.4	1.00	P	L
ICV	N. Fredrick	9/21/17	23:15	0750	8.58	8.56	99.9	59.4	1.00	P	L
CCV	A. Kalmbacher	9/21/17	12:30	23.9	8.43	8.48	100.5	60.4	1.00	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.	N. Fredrick	9/21/17	0755	170720A	8/18	1,000	1,000	P	L
ICV			0757	81472017	3/18	147	150	P	L
CCV	A. Kalmbacher	9-21-17	1232	170720A	8-18	1,000	1,000	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.	N. Fredrick	9/21/17	0800	1607A12	4/18	7.0	7.0	-25.8	P	L
Calibr.			0805	2707722	4/18	4.0	4.0	154.0	P	L
Calibr.			0810	2707722	9/18	10.0	10.0	-19.6	P	L
ICV			0815	1407A12	4/18	7.0	7.0	-25.8	P	L
CCV	A. Kalmbacher	9-21-17	1235	1607A12	6/18	7.0	7.07	-24.7	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 $\pm$ 50;

mV pH4 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 180 mV

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