

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- 2017-09-18-11 Project High Springs

- 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

10/10/2017

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.	PO Con	10-18-17	0715	23.1	8.50	8.56	100.0	64.5	1.01152	P	C
ICV	✓	✓	0722	23.2	8.54	8.53	99.8	64.5	1.01152	P	C
CCV	PO Con	10-18-17	1455	21.9	8.75	8.80	100.5	63.5	1.01152	P	C
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.	PO Con	10-18-17	0725	170720A	08-2018	1000	1000	P	C
ICV	✓	✓	0728	170720B	08-2018	100	104	P	C
CCV	PO Con	10-18-17	1457	170720A	08-2018	1000	995	P	C
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 Con	10-18-17	0730	270765L	06-2019	7.0	7.00 -26.8	P	C
Calibr.			0734	2707722	06-2019	4.0	4.00 153.6	P	C
Calibr.			0737	2704798	09-2018	10.0	9.97 -198.1	P	C
ICV	✓	✓	0740	270765L	06-2019	7.0	7.02 -25.2	P	C
CCV	PO Con	10-18-17	1500	2704798	09-2018	10.0	9.97 -198.1	P	C
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 180 mV

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	PO Con	10-18-17	0743	0.000	0.001	P	C

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

BP 10/23/17

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

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Meter YSI #3 RQ- 2017-09-18-19 Project SULLY

- 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 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.	N. Fredin	10/18/17	0650	22.8	8.61	8.60	100	66.5	1.01	P	L
ICV	N. Fredin		0655	22.9	8.59	8.60	99	66.5	1.01	P	L
CCV	A. Almbacher	10/18/17	1550	23.1	8.56	8.48	99.2	66.5	1.0322	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. Fredin	10/18/17	0700	170720A	8/18	1,000	1,000	P	L
ICV			0705	81472017	3/18	147	145	P	L
CCV	A. Almbacher	10/18/17	1600	170720A	8/18	1,000	964	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. Fredin	10/18/17	0710	270762	6/19	7.0	7.00	-25.9	P	L
Calibr.			0712	2707722	6/19	4.0	4.0	143.9	P	L
Calibr.			0715	2704798	9/18	10.0	9.99	-191.8	P	L
ICV			0720	2707654	6/19	7.0	6.99	-25.9	P	L
CCV	A. Almbacher	10/18/17	1605	2707656	6/19	7.0	7.07	-28.2	P	L
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

BT 10/23/17