

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

Handwritten "X" mark with text: "Handwritten 'X' mark is not a qualified signature on this page."

Meter YSI #3 RQ- 2017-10-16-50 Project Suwannee 3

- 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 arm	10-17-17	0655	23.4	8.51	8.51	100.0	48.2	0.88217	P	C
ICV		↓	0700	23.5	8.49	8.50	100.0	48.2	0.88217	P	C
CCV	B Dev's	10/17/17	1400	22.5	8.46						
CCV			1425	23.7	8.46	6.72	29.4	45.1	0.88217	F	L

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	PO arm	10-17-17	0705	170720A	08-2018	1000	1000	P	C
ICV		↓	0708	170720B	08-2018	100	101	P	C
CCV	B Dev's	10/17/17	1415	170720A	8/18	1000	1004	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 SU	mV	Pass / Fail	Lab / Field
Calibr.	PO arm	10-17-17	0712	2707656	06-2019	7.0	7.00	-26.5	P	C
Calibr.		↓	0717	2707722	06-2019	4.0	4.00	145.6	P	C
Calibr.		↓	0720	2704798	09-2018	10.0	9.99	-193.8	P	C
ICV		↓	0722	2707656	06-2019	7.0	7.05	-27.8	P	C
CCV	B = Dev's	10/17/17	1417	2707722	6/19	4.0	4.04	142.7	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				0.000			

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

Handwritten signature: B Dev's 10/23/17

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- 2017-09-16

Project LSSR SW

- 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 10/20/17

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 Parnish	10/17/17	730	23.0	8.55	8.58	100	38.0	-	P	L
ICV	J	10/17/17	732	23.0	8.55	8.55	99.7	38.0	-	P	L
CCV	J Parnish	10/17/17	1414	22.8	8.61	8.59	97.8	35.9	-	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.	J Parnish	10/17/17	734	170720A	8/18	1000	1000	P	L
ICV	J Parnish	J	736	81472017	3/18	147	149	P	L
CCV	J Parnish	10/17/17	1415			108	104	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.	J Parnish	10/17/17	736	2707656	6/19	7.0	7.00	22.2	P	L
Calibr.	J	J	737	270722	6/19	4.0	4.06	151.6	P	L
Calibr.	J	J	738	2704798	9/18	10.0	9.99	148.5	P	L
ICV	J	J	740	2707656	6/19	7.0	7.00	22.5	P	L
CCV	J Parnish	10/17/17	1415	2704798	9/18	10.0	9.87	185	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 180 mV

Depth (Quarterly)

Date of Last Depth Verification 10/20/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	J Parnish	10/17/17	740	0.000	0.0	P	L

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

BD 10/23/17