

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

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

Meter ID:

YSI 556

Project:

Salmon 4

RQ 2016-04-11-06

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 4/11/2016

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 /	Lab /
Calibr.	A. Kalmbacher	4-13-16	0810	22.1	8.72	8.73	100.0	—	—	P	L
ICV			0833	22.7	8.62	8.61	99.9			P	L
CCV	J. Grunzel	4-13-16	1608	20.7	8.97	8.72	97.4	—	—	P	L
CCV											

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

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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass /	Lab /
Cond.									
Calibr.	A. Kalmbacher	04-13-16	0815	160216A	2/2017	1,000	1,000	P	L
ICV			0830	160216B	8/2016	100	102	P	L
CCV	J. Grunzel	04-13-16	1615	160216B	8/2016	100	99	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer	Meter reading	mV	Pass /	Lab /
DEP SOP										
Calibr.	A. Kalmbacher	4-13-16	0820	2509677	8/2017	7.0	7.00	-41.1	P	L
Calibr.			0823	2509677	9/2017	4.0	3.96	143.7	P	L
Calibr.			0825	2509677	4/2017	10.0	9.99	-209.6	P	L
ICV			0827	2509677	4/2017	4.00	3.84	142.5	P	L
CCV	J. Grunzel	4-13-16	1613	2509677	8/2017	7.00	7.04	-40.1	P	L
CCV	J. Grunzel	4-13-16	1614	2509677	9/2017	4.00	3.89	140.0	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 180 m

Depth (Quarterly)

Date of Last Depth Verification 4/11/2016

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
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

Meter ID:

141734 Quanta

Project:

2016 High Springs

RQ 2016-04-11-11

- 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

4/11/16

DO DEP SOP FT 1500 Calibr.	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass /	Lab /
	B Davis	4/13/16	726	23.26	8.53	8.53	100%	—	—	P	L
ICV	b	b	727	23.26	8.53	8.53	100%	—	—	P	L
CCV	J Parnish	4/13/16	552	23.5	8.39	8.50	98.6	—	—	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Cond. Calibr.	B Davis	4/13/16	730	160216A	02/17	1000	1000	P	L
ICV	b	b	732	160216A	02/17	1000	992	P	L
CCV	J Parnish	4/13/16	1555	160216B	8/16	100	102	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP Calibr.	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
	B Davis	4/13/16	735	2509677	8/17	7.0	7.0	—		
Calibr.	b	b	738	2509F74	9/17	4.0	4.0	—		
Calibr.	b	b	740	2510A88	4/17	10.0	10.0	—		
ICV	b	b	742	2509677	8/17	7.0	6.98	—	P	L
CCV	J Parnish	4/13/16	1556	2509677	8/17	7.0	7.15	—	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 m

Depth (Quarterly)

Date of Last Depth Verification

1/22/16

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air				0.000			

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