

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 QUANTA #1 RQ- 2017-05-29-10 Project LSJR Biology

- 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 02
 Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 02-09-17

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.	PO'Connor	05-31-17	0710	23.9	8.43	8.39	100.0	-	-	Pass	Lab
ICV	✓	✓	0717	24.0	8.41	8.39	99.9	-	-	Pass	Lab
CCV	PO'Connor	05-31-17	1420	24.4	8.35	8.41	100.5			Pass	Lab
CCV	PO'Connor	05-31-17	1420	24.5	8.34	8.5	102.9	-	-	Pass	Lab

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'Connor	05-31-17	0720	170315B	03-2018	1000	1000	Pass	Lab
ICV	✓	✓	0722	170315A	03-2018	100	101	Pass	Lab
CCV	PO'Connor	05-31-17	1425	1298117	12-2017	12900	13420	Pass	Lab
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'Connor	05-31-17	0725	2102C47	02-2019	7.0	7.00	-	Pass	Lab
Calibr.	✓	✓	0727	2610F42	10-2018	4.0	4.00	-	Pass	Lab
Calibr.	✓	✓	0733	2611998	05-2018	10.0	9.94	-	Pass	Lab
ICV	PO'Connor	05-31-17	1430	2102C47	02-2019	7.0	7.16	-	Pass	Lab
CCV										
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 02-0 N/A

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 $\pm 0.05m$, whichever is greater

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

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Meter YSI #3

RQ- 2017-05-29

Project VEC South

- 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

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. V.	5/31/17	740	24.04	8.41	8.41	100.0	67.6	0.9719	P	L
ICV			742	24.1	8.40	8.41	100.0	67.6	0.9719	P	L
CCV	N. Fredenick	5/31/17	1300	27.69	7.88	7.96	101.1	66.5	0.9719	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	B. V.	5/31/17	746	120315	3/18	1000	1000	P	L
ICV			749	120315A	3/18	100	103	P	L
CCV	N. Fredenick		1305	1413206	6/17	1413	1440	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. V.	5/31/17	753	2202C47	2/19	7.0	7.0	-16.7	P	L
Calibr.			759	2610F42	10/18	4.0	4.0	157.7	P	L
Calibr.			804	2611998	5/18	10.0	9.99	-186.0	P	L
ICV			808	2702C47	2/19	7.0	7.02	-16.0	P	L
CCV	N. Fredenick		1307	2610F42	10/18	4.0	4.02	157.7	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

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