

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 Hydrolab Quanta RQ- 2017-04-24-28 Project LSJR

- 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 2/2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp 23.4	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	PO'Connor	05-02-17	0640	23.2	8.51	8.48	99.9	-	-	Pass	LAS
ICV	↓	↓	0645	23.4	8.51	8.47	99.9	-	-	Pass	LAS
CCV	PO'Connor	05-02-17	1237	23.2	8.54	8.35	98.0	-	-	Pass	LAS
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'Connor	05-02-17	0647	161101A	11/2017	1000	1000	Pass	LAS
ICV	↓	↓	0648	161101B	05/2017	100	100	Pass	LAS
CCV	PO'Connor	05-02-17	1240	161101B					
CCV	PO'Connor	05-02-17	1246	214720M	12/2017	147	144	Pass	LAS

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	05-02-17	0700	2702047	02/2019	7.0	7.00	-	Pass	LAS
Calibr.	↓	↓	0705	2610F42	10/2018	4.0	4.00	-	Pass	LAS
Calibr.	↓	↓	0710	2611999	05/2018	10.0	9.84	-	Pass	LAS
ICV	PO'Connor	05-02-17	1350	2702047	02/2019	7.0	7.05	-	Pass	LAS
CCV										
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 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 ± 0.05 m whichever is greater