

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 name.

Meter Hydrolab Quanta RQ- 2017-07-17-08 Project Guilke 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 5/31/17

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.	J. Parish	7/18/17	712	23.7	8.46	8.46	100	-	-	P	L
ICV	J	4	713	23.7	8.46	8.48	100.3	-	-	P	L
CCV	B = Dc	6	1445	24.7	8.51	8.21	98.7	-	-	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. Parish	7/18/17	715	161472017	12/17	1000	1000	P	L
ICV	J	2	717	170315B	3/18	147	153	P	L
CCV	B = Dc	7/18/17	1449	170315B	3/18	1000	993	P	L
CCV				170315B	3/18				

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.	J. Parish	7/18/17	723	1607412	1/18	7.0	7.00	-	P	L
Calibr.	J	2	2	2	2	4.0	4.00	-	P	L
Calibr.	J	2	2	2	2	10.0	9.8	-	P	L
ICV	B = Dc	7/18/17	1450	1607412	1/18	7.0	7.05	-	P	L
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 _____

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

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 name.

Meter YSI #3

RQ- 2017-01-17-19

Project Inter Action 2

- 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/Init In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

06-2017

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'Connor	07-18-17	0700	23.6	8.48	8.49	100.0	60.4	0.91245	Pass	LAD
ICV	↓	↓	0710	23.6	8.48	8.48	99.7	59.4	0.91245	Pass	LAD
CCV	PO'Connor	07-18-17	1405	24.5	8.34	8.33	99.8	59.4	0.91245	Pass	LAD
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	07-18-17	0715	170315B	03/2018	1000	1000	Pass	LAD
ICV	↓	↓	0720	61472017	12/2017	147	148	Pass	LAD
CCV	PO'Connor	07-18-17	1410	170315A	03-2018	100	102	Pass	LAD
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	07-18-17	0722	1607A12	06-2018	7.0	7.00	-20.3	Pass	LAD
Calibr.	↓	↓	0725	2702743	01-2019	4.0	4.00	144	Pass	LAD
Calibr.	↓	↓	0728	2611998	05-2018	10.0	9.97	-177	Pass	LAD
ICV	↓	↓	0730	1607A12	06-2018	7.0	7.05	-19.5	Pass	LAD
CCV	PO'Connor	07-18-17	1415	2702743	01-2019	4.0	4.04	143.2		
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

06-2017

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab / Field
Pressure mode in air	PO'Connor	07-18-17	0732	0.000	0.007	Pass	LAD

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