

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 Quanta +YSI ^{for DO} 4 RQ- 2017-07-03-53 Project Cow Creek

- 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 5/31/2017

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.	A. Kalmbacher	7-5-17	0745	24.0	8.44	8.42	100.1				QUANTA
ICV			0810	24.5	8.34						DID NOT CAL
CCV	A. Kalmbacher	7-5-17	0820	23.4	8.51	8.51	100	542	10.8558		
CCV			0825	23.5	8.49	8.50	100.1	542	10.8558	P	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.

CCV A Kalmbacher 7-5-17 1140 23.6 8.48 8.36 98.6 51.2 0.85508 P L										
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.	A. Kalmbacher	7-5-17	0750	170315R	3-2018	1000	995			
ICV	J	J	0755	170315A	3-2018	100	101	P	L	
CCV		J	1150	129817	2-2017	12,900	13,300	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.	A. Kalmbacher	7-5-17	0805	270247	2-2019	7.0	7.01			
Calibr.			0808	2702743	1-2019	4.0	3.80			
Calibr.						10.0				
ICV			0810	270247	2-2019	7.00	6.98		P	L
CCV			1154	270247	2-2019	7.00	7.06		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 $\pm 180 \pm 50$;

mV pH 10 Range $\pm 180 \pm 50$; 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-on Quanta

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass/ Fail	Lab/ Field
Pressure mode in air	A. Kalmbacher	7-5-2017	0830	0.000	0.00		

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