

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: **Quanta 143734**

Project: **VEC North**

R6-2016-02-22-47

- 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 **L & B**

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification **1/22/16**

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 /
	A. Kulmbacher	2/23/16	0810	23.0	8.57	8.57	100.0	—	—	P	L
ICV		↓	0855	22.8	8.61	8.43	98.0	—	—	P	L
CCV	B. Davis	2/23/16	1441	21.5	8.83	9.01	102.1	—	—	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass /	Lab /
Calibr.	A. Kulmbacher	2/23/16	0820	151113B	12/2015	1000	.999	P	L
ICV		↓	0825	151113B	12/2015	1,000	.998	P	L
CCV	B. Davis	2/23/16	1445	1165864	11/16	58,640	57,600	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
Calibr.	A. Kulmbacher	2/23/16	0830	2504B18	12/15	7.0	7.0	—	P	L
Calibr.		↓		2504675	12/11	4.0				
Calibr.			0835	2506675	12/15	10.0	10.00	—	P	L
ICV		↓	0910	2504B18		7.0	6.99	—	P	L
CCV	B. Davis	2/23/16	1446	3509F74	9/17	4.0	3.82	—	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

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