

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- 2016-08-15-21 Project UEC Santa

DEP # 143734

- 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

10/7/2016
07/2016

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	08/17/16	0705	23.8	8.44	8.42	100.0	—	—	Pass	Lab
ICV	↓	↓	0715	23.8	8.44	8.42	100.0	—	—	Pass	Lab
CCV	PO'Connor	08/17/16	1340	24.7	8.31	8.47	102.3	—	—	Pass	Lab
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 #	Explr. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	PO'Connor	08/17/16	0717	160616A	06/2017	1000	1000	Pass	Lab
ICV	↓	↓	0720	1165864	11/2016	58,640	59,200	Pass	Lab
CCV	PO'Connor	08/17/16	1345	151113A	11/16	100	100	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 #	Explr. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO'Connor	08/17/16	0722	2606E04	06/2018	7.0	7.00	—	Pass	Lab
Calibr.	↓	↓	0728	2602556	01/2018	4.0	4.00	—	Pass	Lab
Calibr. ICV	↓	↓	0735	2510A88	04/2017	10.0	9.92	—	Pass	Lab
ICV	PO'Connor		155	2606E04	06/2018	7.0	7.05	—	Pass	Lab
CCV										
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 180mV

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