

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 #1

RQ- 04-03-18 10

Project UEC South

- 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/04/2016

02/2017

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 Comm	04/11/17	0715	23.1	8.56	8.53	100.0	-	-	Pass	Lab
ICV	V	V	0722	23.1	8.52	8.52	99.9	-	-	Pass	Lab
CCV	BT	4/11/17	1332	23.3	8.53	8.49	99.6	-	-	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.	PO Comm	04/11/17	0724	161101A	11/2017	1000	1000		
ICV	V	V	0725	161101B	05/2017	100	101		
CCV	BT	4/11/17	1334	161101C	11/17	50,000	50,000	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.	PO Comm	04/11/17	0727	2702047	02/2019	7.0	7.00	-	Pass	Lab
Calibr.			0735	2608626	08/2018	4.0	4.00	-	Pass	Lab
Calibr.	V	V	0745	2608635	02/2018	10.0	9.97	-	Pass	Lab
ICV	BT	4/11/17	1340	2608626	8/18	4.0	4.02	-	P	L
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 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

Scanned 4/19/17

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- 2017-04-10-06 Project Summer Soc.

- 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

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. Parrish	4/11/17	706	23.5	8.58	8.58	100	53.3		P	
ICV	J	J	715	23.1	8.56	8.48	99.2	52.3		P	
CCV	A. Kumbacher	4-11-17	1655	24.1	8.40	8.42	100.3	51.2		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. Parrish	4/11/17	719	1610A	11/17	1000	1000	P	
ICV	J	J	720	214720	7/21/17	147	144	P	
CCV	A. Kumbacher	4-11-17	1657	1.000	11/17	1000	1002	P	L
CCV									

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. Parrish	4/11/17	721	2702C47	2/19	7.0	7.00	-14.7	P	
Calibr.	J	J	724	2608626	8/18	4.0	4.0		P	
Calibr.	J	J	725	2608635	2/18	10.0	10.0	-149.5	P	
ICV	J	J	730	2608626	8/18	4.0	4.05		P	
CCV			1700	2702C47	2/19	7.0	6.96	-13.0	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 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	J. Parrish	4/11/17	731	0.000	0.0	P	

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