

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 4** RQ- **2017-01-30-12** 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 L-6

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

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.	<i>Kevin Davis</i>	2/2/17	741	21.10	8.89	8.89	100%	55.3	0.92916	P	L
ICV	<i>↓</i>	<i>↓</i>	742	21.14	8.89	8.88	99.9	55.3	0.92916	P	L
CCV	<i>↓</i>	<i>↓</i>	1410	23.11	8.56	8.45	98.8	56.3	0.92916	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.	<i>B-PC</i>	2/2/17	745	161101A	11/17	1000	1000	P	L
ICV	<i>↓</i>	<i>↓</i>	749	1165864	11/18	58640	58899	P	L
CCV	<i>↓</i>	<i>↓</i>	1412	161101A	11/17	1000	1007	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.	<i>B-PC</i>	2/2/17	753	2608904	7/18	7.0	7.0	-9.7	P	L
Calibr.	<i>↓</i>	<i>↓</i>	756	2605918	4/18	4.0	4.0	167.7	P	L
Calibr.	<i>↓</i>	<i>↓</i>	800	2607973	1/18	10.0	10.0	-183.9	P	L
ICV	<i>↓</i>	<i>↓</i>	803	2608904	7/18	7.0	7.02	-9.7	P	L
CCV	<i>↓</i>	<i>↓</i>	1414	2607973	1/18	10.0	9.99	-183.9	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 +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 _____

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