

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 PCE #4 RQ- 2017-08-14-18 Project Guil

- 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 Calibration

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 6/12

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.	N. Frederik	8/17/17	0730	23.38	8.53	8.50	99.8	58.4	0.91	P	L
ICV			0735	23.45	8.54	8.50	98.7	58.4	0.91	P	L
CCV	B = P.	8/17/17	1555	24.5	8.34	8.32	99.8	59.4	0.91	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	N. Frederik	8/17/17	0740	170720A	8/18	1,000	1,002	P	L
ICV			0745	601472017	12/17	147	154	P	L
CCV	B = P.	8/17/17	1558	170720A	8/18	1000	995	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.	N. Frederik	8/17/17	0750	1607A12	6/18	7.0	7.0	-24.3	P	L
Calibr.			0755	2702743	1/19	4.0	4.0	147.2	P	L
Calibr.			0800	2611918	5/18	10.0	10.0	-197.2	P	L
ICV										
CCV	B = P.	8/17/17	1600	1607A12	6/18	7.0	7.05	-27.4	P	L
CCV	B = P.	8/17/17	1602	2702743	1/19	4.0	3.87	154.7	P	L

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				0.000			

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

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter YSI # 3

RQ- 2017-08 14-14

Project SW SW

- 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 5/31/17

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.	J. Parnish	8/17/17	703	23.9	8.43	8.43	100	63 S	0.976	P	L
ICV	J	J	705	24.0	8.42	8.42	100	63 S	0.976	P	L
CCV	J. Parnish	8/17/17	1400	26.3	8.07	8.07	99.5	63.5	0.926	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. Parnish	8/17/17	707	170315B	3/18	1020	1020	P	L
ICV	J	8/17/17	710	61472017	12/17	147	145	P	L
CCV	J	8/17/17	702	170720B	8/18	100	107	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 Conn	08-17-17	0708	1607A12	6/18	7.0	7.00	-12.0	Pass	CAB
Calibr.	J	J	0712	2702743	1/19	4.0	4.00	158.3	Pass	CAB
Calibr.	J	J	0716	2611998	5/18	10.0	9.99	-179.3	Pass	CAB
ICV	J	J	0720	1607A12	06-18	7.0	7.06	-14.1	Pass	CAB
CCV	J. Parnish	8/17/17	1403	2611998	5/18	10.0	9.97	-176.6	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				0.000			

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