

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 ID:

YSI #3

RQ:

2018-03-05-25

Project:

BMAP 2

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(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

1/18

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.	B = V =	3/5/18	750	21.8	8.78	8.79	100.1	✓	1.109	P/F	L/F
ICV			752	21.8	8.78	8.76	100	✓	1.109	P/F	L/F
CCV	AKalmbacher	3-5-18	1540	20.9	8.93	8.99	100.7	✓	1.1099	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	B = V =	3/5/18	756	171129A	12/18	1000	1000	P/F	L/F
ICV			758	170515A	3/18	100	102	P/F	L/F
CCV	AKalmbacher		1550	171129A	12/18	1.000	100.3	P/F	L/F
CCV								P/F	L/F

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.	B = V =	3/5/18	808	2709B15	9/19	7.0	7.0	-1.2	P/F	L/F
Calibr.			813	2711517	10/19	4.0	4.0	158.2	P/F	L/F
Calibr.			817	2708A21	1/19	10.0	9.98	155.7	P/F	L/F
ICV			820	2709B15	9/19	7.0	6.92	4.9	P/F	L/F
CCV	AKalmbacher		1555	2708A21	1/19	10.0	10.14	-164.2	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	B = V =	3/5/18	821	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

QC/Scanned BT 3/15/18 JP 3/9/18

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 ID: Quanta #1

RQ- 201803-05-22

Project: LSJR Southside #2

PH code

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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 01-10-2018

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	03-05-18	0720	21.5	8.82	8.79	99.9	-	-	P/F	L/F
ICV	↓	↓	0725	21.6	8.81	8.78	100.0	-	-	P/F	L/F
CCV	AKalmbacher	3-5-18	1605	21.9	8.75	8.57	98.0	-	-	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	PO'Connor	03-05-18	0727	171129A	12-2018	1000	1000	P/F	L/F
ICV	↓	↓	0729	1703154	03-2018	100	98	P/F	L/F
CCV	AKalmbacher	3-5-18	1610	171129A	12-2018	11000	999	P/F	L/F
CCV								P/F	L/F

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'Connor	03-05-18	0730	2709B15	09-2019	7.0	7.00	-	P/F	L/F
Calibr.	↓	↓	↓	2711517	10-2019	4.0	4.00	-	P/F	L/F
Calibr. ICV	↓	↓	↓	2708A21	01-2019	10.0	9.92	-	P/F	L/F
ICV	AKalmbacher	3-5-18	1615	2708A21	01-2019				P/F	L/F
CCV				2709B15	09-2019	7.0	6.57		P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

(both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

QC/Scanned BT 3/15/18

JP 3/9/18

pH 50mg Sodium Sulfate

B₁ Sulfate 1/2 con

Form effective October 1, 2017