

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: YSI #3 RQ: 2018-11-26-13 Project: Sherman Cok

- 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 10/10/18

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.	C. Ruben	12-18-18	0800	21.3	8.86	8.73	98.7	—	—	(P) F	(L) F
ICV	↓	↓	0803	21.4	8.84	8.73	98.6	—	—	(P) F	(L) F
CCV	A. Kumbacher	12-18-18	1300	18.5	9.37	9.13	97.7			(P) F	(L) F
CCV										P / F	L / F

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.	C. Ruben	12-18-18	0806	181102	11/2019	1000	1000	(P) F	(L) F
ICV	↓	↓	0810	1024820	9/2019	24820	24715	(P) F	(L) F
CCV	A. Kumbacher	↓	1305	181102	11/2019	1.000	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.	C. Ruben	12-18-18	0812	2809841	8/2020	7.0	7.0	-22.6	(P) F	(L) F
Calibr.	↓	↓	0815	281832	9/2020	4.0	4.0	151.7	(P) F	(L) F
Calibr.	↓	↓	0818	1806F51	12/2019	10.0	10.0	-191.2	(P) F	(L) F
ICV	↓	↓	0821	2809841	8/2020	7.0	7.02	-21.8	(P) F	(L) F
CCV	A. Kumbacher	12-18-18	1310	1806F51	12/2019	10.0	10.05	-194.6	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 10/10/18

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	C. Ruben	12-18-18	0825	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:

BD 1/2/19 JP 12/20/18

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

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Meter ID:

DEP#154181

RQ:

2018-12-24-30

Project:

Prairie Cr. SCI

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

10-10-18

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.	PO'Connor	12-18-18	0715	21.3	8.86	8.86	100.1	—	—	(P/F)	(L/F)
ICV	↓	↓	0720	21.4	8.84	8.87	100.3	—	—	(P/F)	(L/F)
CCV	PO'Connor	12-18-18	1518	19.4	9.20	9.29	101.0	—	—	(P/F)	(L/F)
CCV										P/F	L/F

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.	PO'Connor	12-18-18	0724	181102	11-2019	1000	1000	(P/F)	(L/F)
ICV	↓	↓	0726	180321A	04-2019	100	102.2	(P/F)	(L/F)
CCV	PO'Connor	12-18-18	1520	2481024820	09-2019	24820	24920	(P/F)	(L/F)
CCV				1024820	09-2019			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	12-18-18	0728	2809841	08-2020	7.0	7.00	-33.8	(P/F)	(L/F)
Calibr.	↓	↓	0732	2810B32	09-2020	4.0	4.00	146.7	(P/F)	(L/F)
Calibr.	↓	↓	0735	1806FS1	12-2019	10.0	10.00	-207.1	(P/F)	(L/F)
ICV	↓	↓	0740	2809841	08-2020	7.00	7.05	-34.0	(P/F)	(L/F)
CCV	PO'Connor	12-18-18	1525	2810B32	09-2020	4.00	4.02	144.5	(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 10-10-18

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:

TS 1/2/19 12/20/18 JF