

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: 111 #3 RQ- 2018-0-22-10 Project: Guineville

- 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 Lab

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.	N. Fredenik	1/23/18	0700	22.26	8.70	8.70	100	55.3	0.86	(P) F	(L) F
ICV	↓	↓	0702	22.31	8.69	8.71	99	55.3	0.86	(P) F	(L) F
CCV	B. R. v. s.	↓	1654	21.6	8.81	8.91	1010	54.3	0.86	(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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	N. Fredenik	1/23/18	0705	171129A	12/18	1,000	1001	(P) F	(L) F
ICV	↓	↓	0708	170315A	3/18	100	101	(P) F	(L) F
CCV	B. R. v. s.	↓	1656	171129A	12/18	1000	995	(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.	N. Fredenik	1/23/18	0710	2708B60	7/19	7.0	7.0	-15.0	(P) F	(L) F
Calibr.	↓	↓	0712	2710816	9/19	4.0	4.0	159.6	(P) F	(L) F
Calibr.	↓	↓	0715	2704798	9/18	10.0	10.0	-185.5	(P) F	(L) F
ICV	↓	↓	0720	2708B60	7/19	7.0	7.0	-15.0	(P) F	(L) F
CCV	B. R. v. s.	↓	1658	2704798	7/18	10.0	10.04	-188.0	(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						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 BD 1/29/18

JP 1/25/18

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: 2018-01-22-12

Project: SUWANNEE NORTH

- 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.	P O'Connor	01-23-18	0655	22.9	8.59	8.58	100.1	—	—	P/F	L/F
ICV	✓	✓	0700	22.9	8.59	8.56	99.9	—	—	P/F	L/F
CCV	P O'Connor	01-23-18	1350	22.9	8.59	8.30	97.8	—	—	P/F	L/F
CCV	P O'Connor	01-23-18	1353	22.8	8.61	8.47	98.8	—	—	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.	P O'Connor	01-23-18	0702	171129A	12-2018	1000	1000	P/F	L/F
ICV	✓	✓	0705	170315A	03-2018	100	100	P/F	L/F
CCV	P O'Connor	01-23-18	1355	170315A	03-2018	100	99	P/F	L/F
CCV	✓	✓	1402	171129A	12-2018	1000	995	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.	P O'Connor	01-23-18	0707	2708860	07-2019	7.0	7.00	—	P/F	L/F
Calibr.	✓	✓	0709	2711517	10-2019	4.0	4.00	—	P/F	L/F
Calibr. ICV	✓	✓	0712	2706031	12-2018	10.0	9.96	—	P/F	L/F
ICV CCV	P O'Connor	01-23-18	1405	2708860	07-2019	7.0	6.99	—	P/F	L/F
CCV	✓	✓	1408	2711517	10-2019	4.0	3.98	—	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						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:

no millivolts for pH BD QC/scanned 1/29/18

JP 1/25/18