

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 #4

RQ: 2018-01-29-07

Project: Nassau West

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

L-6

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 freedir	1/30/18	0800	21.28	8.88	8.86	99.9	53.3		P / F	L / F
ICV	AKimbacher	1/30/18	0815	21.2	8.88	8.85	99.6	54.9	0.8721	(P) / F	(L) / F
CCV	AKimbacher	1/30/18	1520	20.8	8.95	8.93	99.9	55.3	0.8721	(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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	AKimbacher	1-30-18	0825	171129A	12/2018	1000	1000	P / F	L / F
ICV			0830	170355A	3/2018	100	105	(P) / F	(L) / F
CCV	AKimbacher	1-30-18	1523	171129A	12/2018	996	996	(P) / F	(L) / F
CCV						1000		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.	AKimbacher	1-30-18	0832	2708860	7/2019	7.0	7.00	-34.3	P / F	L / F
Calibr.			0835	2711517	10/2019	4.0	4.01	145.5	P / F	L / F
Calibr.			0837	2706031	12/2019	10.0	9.97	-204.8	P / F	L / F
ICV			0840	2708860	7/2019	7.0	7.03	-33.0	(P) / F	(L) / F
CCV	AKimbacher	1-30-18	1527	2711517	10/2019	4.0	4.02	143.3	(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 10 170.5, slope from 4 to 7 179.8 (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	AKimbacher	0843	1-30-18	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 BD 2/7/18 JP 2/2/18

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: YSI #3 RQ: 2018-01-29-09 Project: Nass. Est.

- 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 Lc6

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 1/2018

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.	J Parrish	1/30/18	730	21.35	8.86	8.65	100	43.1	-	P/F	L/F
ICV	J	J	733	21.5	8.83	8.83	100	42.0	-	P/F	L/F
CCV	B. Davis	1/30/18	1337	16.8	9.7	9.6	99.3	39.0	-	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.	J Parrish	1/30/18	735	171126	12/18	1000	1000	P/F	L/F
ICV	J	J	737	170720C	8/18	50000	48200	P/F	L/F
CCV	B. Davis	1/30/18	1340	170315A	3/18	100	102	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.	J Parrish	1/30/18	740	2708660	7/19	7.0	7.0	-15.8	P/F	L/F
Calibr.	J	J	743	2711517	10/19	4.0	4.0	161.8	P/F	L/F
Calibr.	J	J	746	270631	12/18	10.0	9.99	-189.0	P/F	L/F
ICV	J	J	749	2711517	10/19	4.0	4.02	160.3	P/F	L/F
CCV	B. Davis	1/30/18	1342	2711517	10/19	4.0	4.02	160.1	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	J Parrish	1/30/18	752	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 2/7/18 JP 2/12/18