

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: 2018-05-14-15

Project: Gville Sours

- 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 4/18

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.	<u>B-V-</u>	<u>5/15/18</u>	<u>738</u>	<u>24.1</u>	<u>8.40</u>	<u>8.41</u>	<u>100</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>743</u>	<u>24.2</u>	<u>8.38</u>	<u>8.39</u>	<u>100</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1608</u>	<u>23.1</u>	<u>8.56</u>	<u>8.55</u>	<u>99.9</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

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.	<u>B-V-</u>	<u>5/15/18</u>	<u>745</u>	<u>180321B</u>	<u>4/19</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>746</u>	<u>1470318</u>	<u>9/18</u>	<u>147</u>	<u>149</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1610</u>	<u>180321B</u>	<u>4/19</u>	<u>1000</u>	<u>999</u>	<u>P/F</u>	<u>L/F</u>
CCV								<u>P/F</u>	<u>L/F</u>

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.	<u>B-V-</u>	<u>5/15/18</u>	<u>749</u>	<u>2711C81</u>	<u>11/19</u>	<u>7.0</u>	<u>7.0</u>	<u>-7.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>752</u>	<u>2711517</u>	<u>10/19</u>	<u>4.0</u>	<u>4.0</u>	<u>170.1</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>855</u>	<u>2711527</u>	<u>4/19</u>	<u>10.0</u>	<u>9.99</u>	<u>-181.1</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>957</u>	<u>2711C81</u>	<u>11/19</u>	<u>7.0</u>	<u>7.02</u>	<u>-7.5</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1412</u>	<u>2711517</u>	<u>10/19</u>	<u>4.0</u>	<u>4.02</u>	<u>168.1</u>	<u>P/F</u>	<u>L/F</u>
CCV									<u>P/F</u>	<u>L/F</u>

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	<u>B-V-</u>	<u>5/15/18</u>	<u>759</u>	<u>0.00</u>	<u>0.00</u>	<u>P/F</u>	<u>L/F</u>

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 5/29/18 JP 5/17/18

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 nnap.

Meter ID: 4511P

RQ: 2018-05-18

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

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 04-10-18

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 Connors	05-15-18	0707	23.6	8.48	8.48	100.0	—	1.03216	(P) F	(L) F
ICV	↓	↓	0715	23.7	8.46	8.46	100.0	—	1.03216	(P) F	(L) F
CCV	A Kalmbacher	05-15-18	1335	22.4	8.67	8.70	100.6	—	1.03216	(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.	PO Connors	05-15-18	0718	180321B	04-2019	1000	1000	(P) F	(L) F
ICV	↓	↓	0720	171129B	12-2018	100	102	(P) F	(L) F
CCV	A Kalmbacher	05-15-18	1337	180321B	4/2019	1000	998	(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 Connors	05-15-18	0723	2711521	11-2019	7.0	7.00	-11.3	(P) F	(L) F
Calibr.	↓	↓	0725	2711517	10-2019	4.0	4.00	156.8	(P) F	(L) F
Calibr.	↓	↓	0730	2711521	04-2019	10.0	9.99	-180.0	(P) F	(L) F
ICV	↓	↓	0733	2711521	11-2019	7.0	7.02	-13.6	(P) F	(L) F
CCV	A Kalmbacher	05-15-18	1340	2711527	04/2019	10.0	10.0	-180.5	(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 _____

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 5/29/18 JP 5/18/18