

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

~~YSI~~ ^{NI} ~~Quant~~ ^{Quant} ~~BO~~

2017-01-09-14

Project

Gville Lakes

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 03/04/2016

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	1/10/17	0730	21.49	8.84	8.86	100.5	-	-	P	L
ICV	N. Fredenik	1/10/17	0732	21.44	8.84	8.86	100.5	-	-	P	L
CCV	A. Kalmbacher	1/10/17	1620	22.03	8.74	8.90	102.0			P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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.	N. Fredenik	1/10/17	0740	160616A	6/2017	1,000	1002	P	L
ICV			0742	160616A	6/2017	1,000	999	P	L
CCV			0745	160616B	6/2017	1,000	101	P	L
CCV	A. Kalmbacher	1/10/17	1625	160616A	6/2017	1,000	999	P	L

Report specific conductance as a whole number with no decimal figure.

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	1/10/17	0750	2608904	7/2018	7.0	6.99	-	P	L
Calibr.			0755	2605918	4/2018	4.0	3.97	-	P	L
Calibr.			0800	2605913	1/2018	10.0	9.99	-	P	L
ICV	A. Kalmbacher	1/10/17	1628	2608904	7/2018	7.0	7.02	-	P	L
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

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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 YSI# 3 RQ- 2017-01-09-17 Project NASSAU EAST

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 11/2016

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 03/04/2016 11/2016

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 Com	01/10/17	0710	20.6	8.98	8.97	100.0	60.4	0.81112	Pass	CAB
ICV	✓	✓	0720	20.8	8.95	8.92	99.7	59.4	0.81112	Pass	CAB
CCV	PO Com	01/10/17	1515	19.5	9.18	9.41	102.6	59.4	0.81112	Pass	CAB
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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.	PO Com	01/10/17	0725	160616A	06/2017	1000	1000	Pass	CAB
ICV	✓	✓	0730	160616B	06/20/2017	100	101	Pass	CAB
CCV	PO Com	01/10/17	1530	1658640	07/2017	58,640	59,579.5	Pass	CAB
CCV									

Report specific conductance as a whole number with no decimal figure.

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 Com	01/10/17	0735	2608904	01/2018	7.0	7.00	-16.7	Pass	CAB
Calibr.	✓	✓	0740	2605918	04/2018	4.0	4.00	161.7	Pass	CAB
Calibr.	✓	✓	0745	2601973	01/2018	10.0	9.99	-190.3	Pass	CAB
ICV	✓	✓	0750	2608904	07/2018	7.0	7.05	-176	Pass	CAB
CCV	PO Com	01/10/17	1532	2605918	04/2018	4.0	4.01	160.5	Pass	CAB
CCV	✓	✓	1535	2607975	01/2018	10.0	9.99	-191.2	Pass	CAB

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification 11/2016

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	PO Com	01/10/17	0752	0.000	0.036	Pass	CAB

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater