

RQ-2016-02-08-19

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:

B

Project:

SMP: Highlands Lake

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

1/28/16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Chris Link	2/8/16	0730	23.0	8.57	8.57	100.0	32.9		P F	L F
ICV	"	2/8/16	0732	22.4	8.5	8.5	99.4	31.8		P F	L F
CCV	Ben Prosser	"	1736	23.2	8.5	8.3	97.	31.8		P F	L F
CCV										P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Chris Link	2/8/16	0735	150950	9/16	1,000	1,000	P F	L F
ICV	"	"	0737	150950	9/16	1,000	999	P F	L F
CCV	Ben	"	1733	150724 B	8/16	500	513	P F	L F
CCV								P F	L F

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Chris Link	2/8/16	0734	1506244	10/17	7.0	7.0	-24.0	P F	L F
Calibr.	"	"	0741	150915A	9/16	4.0	4.0	152.7	P F	L F
Calibr.	"	"	0743	150915B	3/17	10.0	9.9	-148.6	P F	L F
ICV	"	"	0745	150915B	3/17	10.0	9.9	-147.6	P F	L F
CCV	Ben	"	1735	150415A	9/16	4.0	4.1	153.4	P F	L F
CCV									P F	L F

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

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

Notes:

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:

A

Project:

3rd Arbutle Creek Branch

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

1-7-16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Danny Belger	2-8-16	0730	22.8	8.6	8.6	100	54	1.16	☒ F ☐ F	☐ F ☒ F
ICV	"	"	0731	22.9	8.6	8.6	99	54		☒ F ☐ F	☐ F ☒ F
CCV	"	"	1556	22.9	8.6	8.4	98	51		☒ F ☐ F	☐ F ☒ F
CCV										P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Danny Belger	2-8-16	0734	150915D	9-16	1000	999	☒ F ☐ F	☐ F ☒ F
ICV	"	"	0735	"	"	1000	996	☒ F ☐ F	☐ F ☒ F
CCV	"	"	1557	150115C	3-16	100	105	☒ F ☐ F	☐ F ☒ F
CCV								P F	L F

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Danny Belger	2-8-16	0734	156244	10-17	7.0	7.0	-50	☒ F ☐ F	☐ F ☒ F
Calibr.	"	"	0740	150915A	9-16	4.0	4.0	119	☒ F ☐ F	☐ F ☒ F
Calibr.	"	"	0741	150915B	3-17	10.0	10.0	-221	☒ F ☐ F	☐ F ☒ F
ICV	"	"	0742	"	"	10.0	9.9	-220	☒ F ☐ F	☐ F ☒ F
CCV	"	"	1558	150915A	9-16	4.0	4.1	111	☒ F ☐ F	☐ F ☒ F
CCV									P F	L F

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

Notes: