

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:

A

Project:

Smoky Highlands/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

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.	Denny Bork	4-11-16	0714	24.6	8.3	8.3	100	52	0.91	P F	L F
ICV	"	"	0712	24.6	8.3	8.3	100	52		P F	L F
CCV	"	"	1716	28.4	7.8	7.6	98	53		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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Denny Bork	4-11-16	0713	150915D	9-16	1000	1000	P F	L F
ICV	"	"	0714	"	"	1000	1003	P F	L F
CCV	"	"	1717	160318	9-16	100	104	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.	Denny Bork	4-11-16	0716	160222A	9-17	7.0	7.0	-59	P F	L F
Calibr.	"	"	0717	160222B	3-17	4.0	4.0	110	P F	L F
Calibr.	"	"	0718	150915B	3-17	10.0	10.0	-231	P F	L F
ICV	"	"	0719	"	"	10.0	9.9	-226	P F	L F
CCV	"	"	1718	160222B	3-17	4.0	4.0	108	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)

Meter ID:

7

Project:

SMP + Cowbane

SP Cond
2500
Over

~~Holdly "X" this box if there is qualified data on this name.~~

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.

RQ-2016-04-04-03
RQ-2016-04-04-10

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

3/7/16

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.	Kaitlin DePeth	4/11/16	0715	24.3	8.37	8.38	100.0	61.4		P F	L F
ICV	"	4/11/16	0717	24.2	8.38	8.52	99.9	59.4		P F	L F
CCV	Corey Anderson	4/11/16	1513	23.7	8.5	8.8	103	53	1.4	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.	Kaitlin DePeth	4/11/16	0725	15091SD	9/16	1,000	1,000	P F	L F
ICV	"	4/11/16	0727	15091SE	9/16	500	504	P F	L F
CCV	Corey Anderson	4/11/16	1510	160318	9/16	100	127	P F	L F
CCV	Corey Anderson	4/11/16	1512	15091SD	9/16	1000	977	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.	Kaitlin DePeth	4/11/16	0730	160222A	9/17	7.0	7.0	-6.0	P F	L F
Calibr.	"	4/11/16	0731	160222B	3/17	4.0	4.0	122.2	P F	L F
Calibr.	"	4/11/16	0732	15091SB	3/17	10.0	10.0	-131.5	P F	L F
ICV	"	4/11/16	0735	15091SB	3/17	10.0	10.2	-140.1	P F	L F
CCV	Corey Anderson	4/11/16	1504	160222B	3/17	4.0	3.9	69.6	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: