

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: Betty 167

RQ: 2018-04-30-39

Project: 5 m 1

- 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 3/2/18

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.	T. Riordan	5/3/18	720	22.57	8.644	8.61	99.5	44.1	1.06534	<u>(P)</u> /F	<u>(L)</u> /F
ICV				22.58	8.644	8.53	99.3	43.1		<u>(P)</u> /F	<u>(L)</u> /F
CCV			1348	22.65	8.627	8.64	100.2	44.1	1.06534	<u>(P)</u> /F	<u>(L)</u> /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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	T. Riordan	5/3/18	720	270874	7/19	1000	1000	<u>(P)</u> /F	<u>(L)</u> /F
ICV				180301	3/19	100	98	<u>(P)</u> /F	<u>(L)</u> /F
CCV			1345	180301	3/19	100	99	<u>(P)</u> /F	<u>(L)</u> /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.	T. Riordan	5/3/18	720	172189	4/19	7.0	7.00	-41.3	<u>(P)</u> /F	<u>(L)</u> /F
Calibr.				176044	8/19	4.0	4.00	135.2	<u>(P)</u> /F	<u>(L)</u> /F
Calibr.				174997	7/19	10.0	10.00	-209.7	<u>(P)</u> /F	<u>(L)</u> /F
ICV				176044	8/19	4.0	3.96	138.0	<u>(P)</u> /F	<u>(L)</u> /F
CCV			1345	174997	7/19	10.0	9.95	-206.2	<u>(P)</u> /F	<u>(L)</u> /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 10 168.4, slope from 4 to 7 176.5 (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:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID:

YSI Pro D 55

RQ:

N/A

Project:

EPA Audit/City of Louisville

- Notes: (1) Always wait for meter to stabilize before recording any readings.
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 (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

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.	Jenny Faurel	5/3/18	9:10	23.5	8.49	8.49				P/F	L/F
ICV				23.6	8.48	8.34				P/F	L/F
CCV										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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Jenny Faurel							P/F	L/F
ICV								P/F	L/F
CCV								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.	Jenny Faurel	5/3/18	9:55	172189	04/19	7.0	7.00	-5.1	P/F	L/F
Calibr.	Jenny Faurel	5/3/18	10:00	176044	08/19	4.0	4.00	172.4	P/F	L/F
Calibr.			10:20	174997	7/19	10.0	9.97	180.4	P/F	L/F
ICV	Jenny Faurel	5/3/18	9:35	172189	04/19	7.0	6.98	-2.5	P/F	L/F
CCV									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 10 175.3, slope from 4 to 7 177.5 (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:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID: DOOP NON

RQ: 2018-04-30-37

Project: SMP

- Notes: (1) Always wait for meter to stabilize before recording any readings.
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Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 3/2/18

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.	Mike Drennon	5/3/18	1000	22.59	8.644	8.65	100.0	49.2	91854	☒ F	☒ F
ICV				22.65	8.627	8.66	100.3	50.2		☒ F	☒ F
CCV			1445	23.97	8.418	8.52	101.1	50.2	91854	☒ F	☒ 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.

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Calibr.			1000	270874	7/19	1000	1000	☒ F	☒ F
ICV				180301	3/19	100	100	☒ F	☒ F
CCV			1445	180301	3/19	100	99	☒ F	☒ 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.			1000	172189	4/19	7.0	7.00	-19.3	☒ F	☒ F
Calibr.				176044	8/19	4.0	4.00	158.5	☒ F	☒ F
Calibr.				174997	7/19	10.0	10.00	-195.0	☒ F	☒ F
ICV				174997	7/19	10.0	9.97	-193.6	☒ F	☒ F
CCV			1445	174997	7/19	10.0	10.02	-196.3	☒ F	☒ 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 10 175.7, slope from 4 to 7 177.8 (both must be between 165 and 180 mV)

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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: