

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: YSI T

RQ: 2018-04-23-23

Project: Interlachen

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 4/10/2018

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>A. Kalmbacher</u>	<u>5-31-18</u>	<u>0755</u>	<u>22.8</u>	<u>8.61</u>	<u>100.0</u>	<u>8.61</u>	<u>—</u>	<u>1.03967</u>	<u>P</u> /F	L/ <u>F</u>
ICV			<u>0800</u>	<u>22.9</u>	<u>8.59</u>	<u>100.0</u>	<u>8.60</u>		<u>1.03967</u>	<u>P</u> /F	L/ <u>F</u>
CCV	<u>A. Kalmbacher</u>	<u>5-31-18</u>	<u>1730</u>	<u>25.1</u>	<u>8.21</u>	<u>8.33</u>	<u>101.2</u>		<u>1.03967</u>	<u>P</u> /F	L/ <u>F</u>
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.	<u>A. Kalmbacher</u>	<u>5-31-18</u>	<u>0803</u>	<u>180321B</u>	<u>4/2019</u>	<u>1,000</u>	<u>1,000</u>	P/F	L/F
ICV			<u>0810</u>	<u>171121B</u>	<u>12/2018</u>	<u>100</u>	<u>105</u>	<u>P</u> /F	L/ <u>F</u>
CCV	<u>A. Kalmbacher</u>	<u>5-31-18</u>	<u>1732</u>	<u>180321B</u>	<u>4/2019</u>	<u>1,000</u>	<u>1003</u>	<u>P</u> /F	L/ <u>F</u>
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.	<u>A. Kalmbacher</u>	<u>5-31-18</u>	<u>0815</u>	<u>2711281</u>	<u>11/2019</u>	<u>7.0</u>	<u>7.00</u>	<u>-11.7</u>	P/F	L/F
Calibr.			<u>0818</u>	<u>2711517</u>	<u>10/2019</u>	<u>4.0</u>	<u>4.00</u>	<u>159.3</u>	P/F	L/F
Calibr.			<u>0820</u>	<u>2711527</u>	<u>4/2019</u>	<u>10.0</u>	<u>9.99</u>	<u>-179.2</u>	P/F	L/F
ICV			<u>0825</u>	<u>2711281</u>	<u>11/2019</u>	<u>7.0</u>	<u>7.02</u>	<u>-11.9</u>	<u>P</u> /F	L/ <u>F</u>
CCV	<u>A. Kalmbacher</u>	<u>5-31-18</u>	<u>1735</u>	<u>2711517</u>	<u>10/2019</u>	<u>4.0</u>	<u>3.97</u>	<u>160.3</u>	<u>P</u> /F	L/ <u>F</u>
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 10 167.5, slope from 4 to 7 171.0 (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>A. Kalmbacher</u>	<u>5-31-18</u>	<u>0812</u>	<u>0.000</u>	<u>0.000</u>	<u>P</u> /F	L/ <u>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 BP 6/4/18 JP 6/11/18

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 page.

Meter ID:

YSI 3

RQ:

2018-05-21-10

Project:

Greenville

- 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

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.	J Parn	5/31/18	650	23.4	8.51	8.51	100			P/F	L/F
ICV	J	5/31/18	651	23.4	8.51	8.51	100			P/F	L/F
CCV	J Parn	5/31/18	650	22.5	8.66	8.66	99.8			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.	J Parn	5/31/18	652	180321B	4/19	1000	1000	P/F	L/F
ICV	J	5/31/18	653	1470318	9/18	147	147	P/F	L/F
CCV	J	5/31/18	1653	171129B	7/18	100	102	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.	J Parn	5/31/18	655	2711681	11/19	7.0	7.0	-9.8	P/F	L/F
Calibr.	J	5/31/18	658	2711517	10/19	4.0	4.0	164.5	P/F	L/F
Calibr.	J	5/31/18	659	2711527	4/19	10.0	10.0	186.8	P/F	L/F
ICV	J	5/31/18	700	2711681	11/19	7.0	7.06		P/F	L/F
CCV	J	5/31/18	1658	2711597	10/19	4.0	4.04	160.3	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	J Parn	5/31/18	701	0.00	0.00	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 BT 6/27/18 JP 6/5/18

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

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Meter ID:

YSI 3

RQ-

2018-05-21-10

Project:

Gainesville

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

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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.	JParrish	5/31/18	650	23.4	8.51	8.51	100	✓		P/F	L/F
ICV	J	5/31/18	651	23.4	8.51	8.51	100	✓		P/F	L/F
CCV	JParrish	5/31/18	650	22.5	8.66	8.66	99.8	—	—	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.

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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.	JParrish	5/31/18	652	160321B	4/19	1000	1000	P/F	L/F
ICV	J	5/31/18	653	147031B	9/18	147	147	P/F	L/F
CCV	J	5/31/18	1653	171129B	7/1/18	100	102	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.	JParrish	5/31/18	655	2711681	11/19	7.0	7.0	-9.8	P/F	L/F
Calibr.	J	5/31/18	658	2711517	10/19	4.0	4.0	-164.5	P/F	L/F
Calibr.	J	5/31/18	659	2711527	4/19	10.0	10.0	-186.8	P/F	L/F
ICV	J	5/31/18	700	2711681	11/19	7.0	7.06		P/F	L/F
CCV	J	5/31/18	1658	2711517	10/19	4.0	4.04	-160.5	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 ;

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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	JParrish	5/31/18	701	0.00	0.00	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 BP 6/27/18 JP 6/1/18