

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

Boldly "X" this box if there is qualified data on

Meter ID:

YSI 118154

Project:

SUN 3

RD-2016-03-21-23

- 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

1/2016

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 /	Lab /
Calibr.	J Parnish	3/22/16	715	21.1	8.9	8.9	100	-	-	P	L
ICV	J Parnish	3/22/16	716	21.2	8.9	8.9	99.9	60.4	0.948	P	L
CCV	J Parnish	3/22/16	1435	22.2	8.7	8.87	101.9	62.5	0.948	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Cond.	J Parnish	3/22/16	724	2117	160216A	1000	1000	P	L
Calibr.	J Parnish	3/22/16	725	7116	160216A	100	102	P	L
ICV	J Parnish	3/22/16	1438	160216A	2/17	1000	976	P	L
CCV	J Parnish	3/22/16	1438	160216A	2/17	1000	976	P	L
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
DEP SOP	J Parnish	3/22/16	726	2509677	8/17	7.0	7.0	48.2	P	L
Calibr.	J Parnish	3/22/16	727	2509677	9/17	4.0	4.0	132.8	P	L
Calibr.	J Parnish	3/22/16	728	2506675	11/16	10.0	10.00	217.2	P	L
ICV	J Parnish	3/22/16	729	2509677	8/17	7.0	7.06	47.2	P	L
CCV	J Parnish	3/22/16	1440	2509677	8/17	4.0	4.08	128.2	P	L
CCV										

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 m

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air	J Parnish	3/22/16	730	0.000	0.0	P	

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

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

Boldly "X" this box if there is qualified data on

Meter ID:

143734

Project:

Hawthorne Lakes-Samptom

RD-2016-03-21-06

- 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 1/22/16

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 /	Lab /
Calibr.	X										
ICV											
CCV	J. Gruentzel	3/22/16	0721	22.77	8.61	8.52	98.9	-	-	P	L
CCV	A. Kalmbacher	3/22/16	1425	23.0	8.57	8.37	97.6			P	L

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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass /	Lab /
Cond.									
Calibr.									
ICV									
CCV	J. Gruentzel	3/22/16	0723	151113B	11/2016	1000	1000	P	L
CCV	A. Kalmbacher	3/22/16	1430	151113B	11/2016	1000	1010	P	L

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
DEP SOP										
Calibr.				2509667		7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV	J. Gruentzel	3/22/16	0725	2509667	8/17	7.0	7.16	-	P	L
CCV	A. Kalmbacher	3/22/16	1435	2509667	8/2017	7.0	7.11		P	L

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	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air				0.000			

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