

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

5/9/16

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

Meter ID:

A

Project:

SMP, Florida Keys

- 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

5-9-16 4-28-16

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.	Danny Berger	5-9-16	0731	26.7	8.0	8.0	100	36	1.09	☒ F	☒ F
ICV	"	"	0732	26.6	8.0	7.9	99	36		P F	☒ F
CCV	BP		1825	28.9	7.7	7.5	97	36		☒ 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 Berger	5-9-16	0738	150915D	9-16	1000	1000	☒ F	☒ F
ICV	"	"	0739	"	"	1000	998	☒ F	☒ F
CCV	BP		1828	251138	11/17	5000	5000	☒ 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 Berger	5-9-16	0742	160222A	9-17	7.0	7.0	-62	☒ F	☒ F
Calibr.	"	"	0743	160222B	3-17	4.0	4.0	107	☒ F	☒ F
Calibr.	"	"	0744	150915B	3-17	10.0	10.0	-233	☒ F	☒ F
ICV	"	"	0745	"	"	10.0	10.0	-231	☒ F	☒ F
CCV	BP	5/9/16	1830	160222B	3-17	4.0	4.1	113	☒ 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:

Estero Bay Aquatic Preserve

Pro DDS Calibration Log

Date: 05/09/16

Name: Mackensia Larson

Check Time(circle): (Y) N

DO Changed: Y (N)

Batt. Changed: Y (N)

Sp. Cond.: 49.601 ~~50.989~~ ^{mc}

Lot: 15E100188

pH(7.0SU): 7.08

Lot: 15G25

pH(7.0) MV (0 mV $\pm$ 40 mV): -39.2

pH(10.0SU): 10.10

Lot: 15H2T

pH(10.0) MV (-180 mV $\pm$ 40 mV): -218.8

pH Slope (165-180 mV): 179.6

pH slope = pH 7 mV - pH 10 mV

DO (99.9 %): 100.5

inHg

8.58 mg/L

759 mmHg

Temp: Pro DDS 22.8

Therm 23.1

Turb (0.0 NTU) 0.4

NOTES:

Post Calibration

Date: 5/10/16

Name: Rebecca Flynn

Sp. Cond.: 48.825

pH(7.0SU): 7.00

pH(7.0) MV (0 mV $\pm$ 40 mV): -39.1

pH(10.0SU): 9.92

pH(10.0) MV (-180 mV $\pm$ 40 mV): -213.8

pH Slope (165-180 mV): 99.9

pH slope = pH 7 mV - pH 10 mV

DO (99.8 %): 99.9

inHg

8.41 mg/L

758 mmHg

1011 mb

Temp: Pro DDS 24.0 °C

Therm 24.0 °C

Turb (0.0 NTU) 0.4

NOTES:

Updated: 11/25/2015