

RA-2016-06-06-40

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: 1.1 GUS

Project: SME Biscayne Bay

- 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 PRB
 Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 3/14/16

DO DEP SOP FT 1500	Name	Date	Time ET-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Brewton	4/9/16	800	23.0	8.0	8.6	100	103	1.2	P	L
ICV	"	"	802	23.1	8.6	8.6	100			P	L
CCV	unlabeled	6/4/16	1600	22.0	8.7	8.8	100	55.3		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 Cond FT 1200	Name	Date	Time ET-ET	Lot #	Expir. Date	Standard $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Brewton	4/9/16	804	2002002	2/18	1000	1000	P	L
ICV	"	"	805	2003002	3/18	100	98	P	L
ICV	"	"	807	2000002	2/18	1000	1000	P	L
CCV	unlabeled		1600	2511C38	1/17	5000	49470	P	L

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time ET-ET	Lot #	Expir. Date	pH Buffer SU	Meter Reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Brewton	4/9/16	807	156051	10/17	7.0	7.0	-41	P	L
Calibr.	"	"	808	156982	1/18	4.0	4.0	139*	P	L
Calibr.	"	"	810	156700	10/17	10.0	10.0	-219	P	L
ICV	"	"	813	"	"	10.0	10.0		P	L
CCV	unlabeled		1600	156982	1/18	4.0	4.1	132.6	P	L
CCV										

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 3/8/16

Depth Sensor (Daily)	Name	Date	Time ET-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Brewton	4/9/16	815	0.000			

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater