

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

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

Meter ID: Hodor

RQ: 2019-03-18-46

Project: SMP-Biscayne

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 01/30/19

DO FDEP SOP FT 1500	Name	Date	Time GT-ET	Temp °C	Baro meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass Fail	Lab Field
Calibr.	Kristene B.	03/18/19	8:15	22.5	29.795	8.66	8.63	99.6	/	1.038	P/F	L/F
ICV	"	"	8:18	22.5	29.792	8.66	8.64	99.7	/	1.038	P/F	L/F
CCV	Matt Sed	3/19/19	1800	21.3	756.7	8.863	8.82	99.5	-		P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time GT-ET	Lot#	Expir. Date	Standard Amphosom	Meter Reading amphosom	Pass Fail	Lab Field
Calibr.	Kristene B.	03/18/19	8:20	2901833	12/20	1000	1000	P/F	L/F
ICV	"	"	8:22	280884	07/20	100	102	P/F	L/F
CCV	Matt Sed	3/19/19	18:05	161291	9/19	100.000	98.926	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time GT-ET	Lot#	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass Fail	Lab Field
Calibr.	Kristene B.	03/18/19	8:24	186926	10/20	7.01	22.3	7.01	-33.1	P/F	L/F
Calibr.	"	"	8:26	185909	09/20	4.00	22.4	4.00	145.2	P/F	L/F
Calibr.	"	"	8:28	183381	05/20	10.03	22.3	10.03	-215.1	P/F	L/F
ICV	"	"	8:30	"	"	10	22.3	10.03	-213.9	P/F	L/F
CCV	Matt Sed	3/19/19	18:10	185909	9/20	4.01	22.0	4.10	143.0	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 10 181.9, slope from 4 to 7 178.3 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 01/30/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time GT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene B.	03/18/19	8:32	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:

2019-03-04-72

2019-03-11-34

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

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

Meter ID:

Arya

RQ:

Project:

SMP-PSL + OKeecho

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

03/07/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	3/19/19	8:10	21.5	29.831	8.82	8.88	99.7		1.03	P/F	L/F
ICV	"	"	8:12	21.6	29.828	8.81	8.78	99.7		1.03	P/F	L/F
CCV	Kristene B.	03/19/19	15:50	20.7	29.798	8.96	8.92	99.4		1.03	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); DO charge N/A. 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.	Alex Miranda	3/19/19	8:14	2901833	12/20	1000	1000	P/F	L/F
ICV	"	"	8:16	2810A65	12/20	100	104	P/F	L/F
CCV	Kristene B.	03/19/19	15:55	2809D58	09/20	10,000	9900	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	3/19/19	8:18	186926	10/20	7.	21.7	7.00	-17.5	P/F	L/F
Calibr.	"	"	8:20	185909	9/20	4.	22.2	4.00	157.6	P/F	L/F
Calibr.	"	"	8:22	183381	5/20	10.	21.9	10.04	-197.0	P/F	L/F
ICV	"	"	8:24	183381	5/20	10.	21.9	10.05	-197.1	P/F	L/F
CCV	Kristene B.	3/19/19	16:00	"	"	4	23.9	4.08	158	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 10 179.5, slope from 4 to 7 175.1 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 03/07/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last 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	Alex Miranda	3/19/19	8:26	0.00	0.0	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: