

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: Craw Daddy RQ: 2023-01-16-15 Project: HABs

- 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 11/9/22

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.	Terry Riordan	1/17/23	0744	22.0	759.9	8.7	8.75	100.0	/	0.975	P/F	L/F
ICV	"	"	0745	22.0	759.9	8.7	8.75	100.0	/	/	P/F	L/F
CCV	Jessie Atchison	"	1431	21.6	757.5	8.8	9.10	103.4	/	/	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 (Pro DSS 0.75 to 1.50); 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.	Terry Riordan	1/17/23	0749	220328A	04/23	1000	1000	P/F	L/F
ICV	"	"	0753	2204030	04/24	100	99.9	P/F	L/F
CCV	Jessie Atchison	"	1435	2204030	04/24	100	99.9	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.	Terry Riordan	1/17/23	0757	223156	06/24	7.01	21.5	7.01	-35.0	P/F	L/F
Calibr.	"	"	0800	215478	07/23	4.00	21.5	4.00	142.3	P/F	L/F
Calibr.	"	"	0804	213014	05/23	10.04	21.6	10.04	-212.2	P/F	L/F
Calibr.	"	"	0806	213014	05/23	10.04	21.6	10.03	-21.9	P/F	L/F
ICV	"	"	0806	213014	05/23	10.04	21.6	10.03	-21.9	P/F	L/F
CCV	Jessie Atchison	"	1437	215478	07/23	4.00	22.0	4.03	140.6	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 10 177.2, slope from 4 to 7 172.3 (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: 11/9/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead; Date of last verification: 11/22/22

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	Terry Riordan	1/17/23	0806	0.272	0.222	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:

HABs: Sawgrass + Sunset

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

Meter ID: Shrimp Trap

RQ: 2023-01-09-54

Project: SM P-BMAP

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- 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 11/9/22

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.	Terry Riordan	1/17/23	0735	21.8	759.8	8.8	8.77	100.0	1	1.013	P/F	L/F
ICV	1	1	0736	21.9	759.9	8.8	8.77	100.0	1	1	P/F	L/F
CCV	Terry Riordan	1400 →		22.0	758.0	8.7	8.72	99.7	1	1	P/F	L/F
CCV		1/17/23	0735								P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.
 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.	Terry Riordan	1/17/23	0745	220328A	04/23	1000	1000	P/F	L/F
ICV	1	1	0750	2204D30	04/24	100	99.4	P/F	L/F
CCV	Terry Riordan	1	1404	2206H11	06/24	10,000	10,087	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.	Terry Riordan	1/17/23	0755	223156	06/24	7.01	21.6	7.01	-37.3	P/F	L/F
Calibr.	1	1	0758	215478	07/23	4.00	21.6	4.00	139.6	P/F	L/F
Calibr.	1	1	0802	213014	05/23	10.04	21.7	10.04	-213.9	P/F	L/F
Calibr.	1	1	0805	213014	05/23	10.04	21.7	10.03	-213.9	P/F	L/F
ICV	1	1	1406	215478	07/23	4.00	22.0	4.06	136.5	P/F	L/F
CCV	Terry Riordan	1								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 10 176.6, slope from 4 to 7 176.9 (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: 11/9/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light; Date of last verification: 11/29/22

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	Terry Riordan	1/17/23	0805	0.272	0.273	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:

HABs: Deep Lake + Lake Howell