

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: 2022-12-12-36

Project: HAB

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	12/19/20	0750	20.2	764.2	9.1	9.11	100.6	/	0.964	P/F	L/F
ICV			0751	20.3	764.1	9.1	9.10	100.6	/	/	P/F	L/F
CCV	M. Bearden		1559	22.1	762.6	8.7	8.98	102.8			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.	Terry Riordan	12/19/20	0757	220328A	04/23	1000	1000	P/F	L/F
ICV			0800	2204D30	04/24	100	99.4	P/F	L/F
CCV	MB		1850	2204D30	4/24	100	99.6	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	12/19/20	0805	223156	06/24	7.02	20.3	7.02	-34.0	P/F	L/F
Calibr.			0810	215478	07/23	4.00	20.1	4.00	-143.0	P/F	L/F
Calibr.			0813	213014	05/23	10.06	20.2	10.06	-211.5	P/F	L/F
ICV			0816	213014	05/23	10.06	20.2	10.06	-211.5	P/F	L/F
CCV	MB		1603	223156	6/24	7.00	20.8	7.04		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 10 177.5, slope from 4 to 7 177.0 (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	12/19/20	0816	0.272	0.220	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:

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

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Meter ID: Shrimp Trap

RQ: 2022-12-05-24

Project: Hurricane Ian

- 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	12/19/20	0753	19.9	764.2	9.2	9.15	100.5	/	1.096	P/F	L/F
ICV			0754	20.0	764.2	9.1	9.14	100.5	/	/	P/F	L/F
CCV	Terry Riordan		1637	20.9	762.9	9.0	9.67	108.3	/	/	P/F	L/F
CCV	Terry Riordan	12/29/22	0656	20.6	763.1	9.0	9.65	107.4	/	/	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.	Terry Riordan	12/19/20	0758	220328A	04/23	100.0	100.0	P/F	L/F
ICV			0802	2204030	04/24	100	99.0	P/F	L/F
CCV	Terry Riordan		1632	2204030	04/24	100	98.6	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	12/19/20	0807	223156	06/24	7.02	20.3	7.02	-36.1	P/F	L/F
Calibr.			0810	215478	07/23	4.00	20.0	4.00	-40.6	P/F	L/F
Calibr.			0814	213014	05/23	10.06	20.1	10.06	-213.6	P/F	L/F
ICV			0818	213014	05/23	10.06	20.2	10.04	-212.8	P/F	L/F
CCV	Terry Riordan		1634	215478	07/23	4.00	21.0	4.14	132.8	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 10 177.5, slope from 4 to 7 176.7 (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	12/19/20	0818	0.272	0.270	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:

Fail DO CCV

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

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Meter ID: 200102974 RQ: 2022-12-19-33 Project: HAB

- 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 10/3/22

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.	Jessie Atchison	12/19/22	0847	20.8	764.7	9.1	9.00	95.8	/	1.11	P/F	L/F
ICV	"	"	0856	20.7	764.8	9.0	9.85	101.0	/	/	P/F	L/F
CCV	Jessie Atchison	11/30/22	1130	22.8	762.6	8.6	9.16	106.4	/	/	P/F	L/F
CCV	"	12/09/22	0700	20.7	763.2	9.0	9.02	100.7	/	/	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.	Jessie Atchison	12/19/22	0859	220328A	04/23	1000	1000	P/F	L/F
ICV	"	"	0902	2204030	04/24	100	100	P/F	L/F
CCV	"	"	1134	2204030	04/24	100	99.8	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.	Jessie Atchison	12/19/22	0906	22356	06/24	7.02	20.3	7.02	36.0	P/F	L/F
Calibr.	"	"	0911	215478	07/23	4.00	20.1	4.00	140.5	P/F	L/F
Calibr.	"	"	0915	213014	05/23	10.06	20.2	10.06	22.9	P/F	L/F
ICV	"	"	0920	213014	05/23	10.06	20.2	10.05	22.5	P/F	L/F
CCV	"	"	1138	215478	07/23	4.00	20.9	4.07	137.0	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 10 176.9, slope from 4 to 7 176.5 (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: 11/22/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Crusty 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	N/A					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: