

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-

Project: **SMP**

- 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 **06/01/2022**

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.	Charlie Hoey	06/16/22	711	23.2	756	8.5	8.50	99.5	—	0.946	P/F	L/F
ICV	"	"	713	23.0	756	8.5	8.50	99.2	—	—	P/F	L/F
CCV	Charlie Hoey	06/16/22	1239	25.8	756	8.1	8.05	99.1	—	—	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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	Charlie Hoey	06/16/22	715	110 3983	02/23	10 000	10000	P/F	L/F
ICV	"	"	717	2112E28	12/23	100	97.1	P/F	L/F
CCV	Charlie Hoey	06/16/22	1242	2112E28	12/23	100	98.0	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.	Charlie Hoey	06/16/22	725	210 792	02/23	7.00	24.0	7.00	-24.0	P/F	L/F
Calibr.	"	"	729	200 704	11/22	4.00	24.0	4.00	153.4	P/F	L/F
Calibr.	"	"	731	207 370	03/23	10.01	24.0	10.01	-202.6	P/F	L/F
ICV	"	"	734	207 370	03/23	10.01	23.9	9.99	-201.1	P/F	L/F
CCV	Charlie Hoey	06/16/22	1245	200 704	11/22	4.00	23.7	4.06	150.3	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 **178.6**, slope from 4 to 7 **177.4** (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: **06/01/2022**
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: **KNOTHEAD**; Date of last verification: **06/01/2022**

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	Charlie Hoey	06/16/22	736	0.272	0.272	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: **1000 conductivity is void LOT # 1203A21**

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

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Meter ID: Shrimp Trap

RQ: 2022-06-06-26

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 6/1/22

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	6/16/22	0747	23.5	756.5	8.5	8.47	99.5	1	1.048	P/F	L/F
ICV	1	1	0748	23.5	756.5	8.5	8.47	99.6	1	1	P/F	L/F
CCV	Victoria Schwartz	6/16/22	14:03	23.8	755.7	8.4	8.50	100.8			P/F	L/F
CCV			14:08	23.8							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	6/16/22	0800	4203H74	03/24	20,000	20,000	P/F	L/F
ICV	1	1	0802	2112E28	12/23	100	98.0	P/F	L/F
CCV	Victoria Schwartz	6/16/22	14:06	2112E28	12/23	100	96.6	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	6/16/22	0807	210792	02/23	7.00	23.8	7.00	-24.8	P/F	L/F
Calibr.	1	1	0810	206704	11/22	4.00	23.8	4.00	152.8	P/F	L/F
Calibr.	1	1	0814	207370	03/23	10.01	23.8	10.01	-202.0	P/F	L/F
ICV	1	1	0817	207370	03/23	10.01	23.9	10.00	-201.2	P/F	L/F
CCV	Victoria Schwartz	6/16/22	14:03	206704	11/22	4.00	23.8	4.10	146.8	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 10 177.2, slope from 4 to 7 177.6 (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: 6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: light; Date of last verification: 5/31/22

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	6/16/22	0817	0.272	0.272	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: Dot/Kathryn/Griffin (Senkole County)

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: Scud Bucket

RQ- 2022-05-09-23

Project: lake Buffalo 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 6/1/22

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	6/16/22	0928	23.2	756.8	8.5	8.51	99.6	/	1.040	P/F	L/F
ICV	1	1	0929	23.2	756.6	8.5	8.51	99.6	/	/	P/F	L/F
CCV	Terry Riordan	1	1552	23.2	755.5	8.5	8.49	99.3	/	/	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	6/16/22	0936	4203H7	03/24	20,000	20,000	P/F	L/F
ICV	1	1	0938	2112B28	12/23	100	100.0	P/F	L/F
CCV	Terry Riordan	1	1555	2112E28	12/23	100	96.8	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.	Terry Riordan	6/16/23	0942	210792	02/23	7.00	23.8	7.00	-39.1	P/F	L/F
Calibr.	1	1	0945	206704	11/22	4.00	23.8	4.00	136.4	P/F	L/F
Calibr.	1	1	0948	207370	3/23	10.01	23.9	10.01	-214.1	P/F	L/F
ICV	1	1	0950	207370	3/23	10.01	23.9	10.01	-213.9	P/F	L/F
CCV	Terry Riordan	1	1553	206704	11/22	4.00	23	4.00	136.8	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 10 175.0, slope from 4 to 7 175.5 (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: 6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Crust4; Date of last verification: 6/1/22

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	6/16/22	0950	0.272	0.272	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: