

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: Crawdaddy RQ: 2023-01-16-16 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 1/25/23

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	1/26/23	0807	24.4	760.2	8.4	8.36	100	✓	0.947	P/F	L/F
ICV	"	"	0811	24.6	760.4	8.3	8.35	100.3	✓		P/F	L/F
CCV	Katie March	1/26/23	1630	21.6	760.9	8.8	8.91	101.1	✓		P/F	L/F
CCV												

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	1/26/23	0813	220328A04	04/23	1000	1000	P/F	L/F
ICV	"	"	0817	2206B60	05/24	100	100	P/F	L/F
CCV	K. March	1/26/23	1633	2206B60	5/24	100	99.7	P/F	L/F
CCV									

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	1/26/23	0820	223156	06/24	7.00	24.8	7.00	36.2	P/F	L/F
Calibr.	"	"	0824	215478	07/23	4.00	24.7	4.01	142.3	P/F	L/F
Calibr.	"	"	0828	213014	05/23	10.01	24.8	10.00	214.6	P/F	L/F
ICV	"	"	0831	213014	05/23	10.01	24.8	10.00	214.3	P/F	L/F
CCV	K. March	1/24/23	1637	215478	7/23	4.00	24.7	4.07	138.6	P/F	L/F
CCV											

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 10 178.4, slope from 4 to 7 178.5 (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: 1/25/23
 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	Jessie Atchison	1/26/23	0832	0.272	0.218	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)

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

Meter ID: Shrimp trap RQ- 2023-01-16-14 Project: SMP 5 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 11/25/23

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	1/26/23	0807	24.7	760.4	8.3	8.32	100.1	✓	1.022	P / F	L / F
ICV	"	"	0810	24.8	760.5	8.3	8.31	100.2	✓		P / F	L / F
CCV	"	"	1502	20.6	760.7	9.0	8.98	100.6	✓		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.	Jessie Atchison	1/26/23	0815	220828A	04/23	1000	1000	P / F	L / F
ICV	"	"	0830	220828A	05/24	100	100	P / F	L / F
CCV	"	"	1508	220828A	05/24	100	100	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	1/26/23	0821	223156	06/24	7.00	24.8	7.00	-39.6	P / F	L / F
Calibr.	"	"	0826	215478	07/23	4.00	24.8	4.01	138.3	P / F	L / F
Calibr.	"	"	0829	213014	05/23	10.0	24.8	10.00	-216.0	P / F	L / F
ICV	"	"	0835	213014	05/23	10.0	24.9	10.00	-216.3	P / F	L / F
CCV	"	"	1510	215478	07/23	4.00	24.6	4.06	134.8	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 10 176.4, slope from 4 to 7 171.9 (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: 11/25/23
 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	Jessie Atchison	11/26/23	0837	0.272	0.274	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: