

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-2023-02-27-21
RQ-2023-02-13-43

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.	<u>Terry Riordan</u>	<u>2/21/23</u>	<u>0723</u>	<u>24.6</u>	<u>758.4</u>	<u>8.3</u>	<u>8.29</u>	<u>99.8</u>	<u>/</u>	<u>0.949</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0725</u>	<u>24.7</u>	<u>758.6</u>	<u>8.3</u>	<u>8.29</u>	<u>99.8</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Jessie Atchison</u>	<u>" "</u>	<u>1526</u>	<u>26.4</u>	<u>757.2</u>	<u>8.0</u>	<u>8.12</u>	<u>100.8</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV											<u>P/F</u>	<u>L/F</u>

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Terry Riordan</u>	<u>2/21/23</u>	<u>0732</u>	<u>2207793</u>	<u>06/24</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0734</u>	<u>2206360</u>	<u>05/24</u>	<u>100</u>	<u>100.0</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Jessie Atchison</u>	<u>" "</u>	<u>1530</u>	<u>2206360</u>	<u>05/24</u>	<u>100</u>	<u>100.2</u>	<u>P/F</u>	<u>L/F</u>
CCV								<u>P/F</u>	<u>L/F</u>

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.	<u>Terry Riordan</u>	<u>2/21/23</u>	<u>0739</u>	<u>223136</u>	<u>06/24</u>	<u>7.00</u>	<u>24.6</u>	<u>7.00</u>	<u>-36.8</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0744</u>	<u>215478</u>	<u>07/23</u>	<u>4.00</u>	<u>24.7</u>	<u>4.00</u>	<u>142.5</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0747</u>	<u>222715</u>	<u>07/24</u>	<u>10.00</u>	<u>24.6</u>	<u>10.00</u>	<u>-214.4</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0749</u>	<u>222715</u>	<u>07/24</u>	<u>10.00</u>	<u>24.6</u>	<u>9.99</u>	<u>-214.2</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Jessie Atchison</u>	<u>" "</u>	<u>1531</u>	<u>215478</u>	<u>07/23</u>	<u>4.00</u>	<u>24.5</u>	<u>4.07</u>	<u>138.3</u>	<u>P/F</u>	<u>L/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

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 10 177.6, 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: 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	<u>Terry Riordan</u>	<u>2/21/23</u>	<u>0749</u>	<u>0.272</u>	<u>0.221</u>	<u>P/F</u>	<u>L/F</u>

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: Shrimptap

RQ-

Project: BMP

- 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	2/21/23	0817	24.4	759.2	8.3	8.34	99.9	/	1.006	P / F	L / F
ICV	"	"	0818	24.5	759.2	8.3	8.34	99.9	/	/	P / F	L / F
CCV	Katie March	2/21/23	1440	25.5	757.7	8.2	8.15	99.4	/	/	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	2/21/23	0822	2207793	06/24	1000	1000	P / F	L / F
ICV	"	"	0824	2206860	05/24	100	100	P / F	L / F
CCV	K. March	2/21/23	1443	2206860	5/24	100	100.1	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	2/21/23	0827	223156	06/24	7.00	24.5	7.01	-41.6	P / F	L / F
Calibr.	"	"	0831	215478	07/23	4.00	24.6	4.00	137.3	P / F	L / F
Calibr.	"	"	0836	222715	07/24	10.00	24.6	10.01	-217.6	P / F	L / F
ICV	"	"	0839	222715	07/24	10.00	24.5	9.98	-216.7	P / F	L / F
CCV	K. March	2/21/23	1446	215478	7/23	4.00	24.6	4.04	134.5	P / F	L / F
CCV								4.04		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, slope from 4 to 7 178.9 (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: 1/25/23

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: light; Date of last verification: 1/29/23

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	2/21/23	0840	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: