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- 2022-04-11-27 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 3/3/22

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.	Terry Riordan	4/11/22	0719	22.7	758.5	8.6	8.61	99.8	/	1.007	(P) / F	L / F
ICV	1	1	0720	22.8	758.9	8.6	8.60	99.8	/	/	(P) / F	L / F
CCV	KMerch	Hot	1600	22.1	759	8.7	9.27	106.3	/	/	P / F	(L) F
CCV	Terry Riordan	4/12/22	0646	23.6	758.3	8.5	9.01	106.1	/	/	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	4/11/22	0729	1105E62	5/23	1000	1000	(P) / F	L / F
ICV	1	1	0735	2109K87	9/23	100	100.0	(P) / F	L / F
CCV	KMerch	Hot	1405	2201F04	1/24	50000	49071	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	4/11/22	0742	210792	2/23	7.01	22.3	7.01	-17.9	(P) / F	L / F
Calibr.	1	1	0746	206704	11/22	4.00	22.7	4.00	158.6	(P) / F	L / F
Calibr.	1	1	0752	207370	3/23	10.02	22.6	10.02	-193.0	(P) / F	L / F
ICV	1	1	0755	207370	3/23	10.02	22.6	10.03	-193.5	(P) / F	L / F
CCV	KMerch	Hot	1610	206704	11/22	4.00	22.8	4.07	155.1	(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 175.1, 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: 3/3/22
If **NO**, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead; Date of last verification: 12/1/21

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	4/11/22	0755	0.272	0.272	(P) / F	(L) / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: CCV - DO failed

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

Bold/Ⓧ "X" this box if there are qualified data on this page

Meter ID: Shrimp Trap RQ- 2022-04-11-20 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 3/3/22

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.	Terry Riordan	4/11/22	0717	23.0	758.5	8.6	8.57	99.8	/	1.116	Ⓟ/F	Ⓛ/F
ICV	"	"	0720	23.0	758.8	8.6	8.56	99.8	/	/	Ⓟ/F	Ⓛ/F
CCV	Terry Riordan	4/11/22	1703	22.3	757.6	8.7	9.37	107.8	/	/	P Ⓕ	Ⓛ/F
CCV	Terry Riordan	4/12/22	0644	23.4	758.2	8.5	9.01	106.0	/	/	P Ⓕ	Ⓛ/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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	4/11/22	0728	1105E62	5/23	1000	1000	Ⓟ/F	Ⓛ/F
ICV	"	"	0735	2109K87	9/23	100	99.2	Ⓟ/F	Ⓛ/F
CCV	Terry Riordan	"	1650	2109K87	9/23	100	98.5	Ⓟ/F	Ⓛ F
CCV	Victoria Schwark	4/11/22	18:03	1103983	02/23	10,000	9906.0	Ⓟ F	Ⓛ F

Conductivity Acceptance criteria ± 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	4/11/22	0742	210792	2/23	7.01	22.4	7.01	-19.9	Ⓟ/F	Ⓛ/F
Calibr.	"	"	0745	206704	11/22	4.00	22.9	4.00	156.9	Ⓟ/F	Ⓛ/F
Calibr.	"	"	0751	207370	3/23	10.02	22.7	10.02	-196.1	Ⓟ/F	Ⓛ/F
ICV	"	"	0754	207370	3/23	10.02	22.8	10.02	-196.1	Ⓟ/F	Ⓛ/F
CCV	Terry Riordan	"	1653	206704	11/22	4.00	22.8	4.07	153.0	Ⓟ/F	Ⓛ/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 176.2, slope from 4 to 7 176.8 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? Ⓨ**ES** / **NO** / **NA** (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 3/3/22
If **NO**, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light ; Date of last verification: 12/1/21

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	4/11/22	0754	0.272	0.271	Ⓟ/F	Ⓛ/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:
CCV - DO Failed

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-** _____ **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 _____

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.	Leif Boman	4/11/22	8:50	23.0	759.5	8.6	8.57	99.9	/	1.0490	(P) / F	(L) / F
ICV	"	"	1	23.0	759.6	8.6	8.58	100.0	/	/	(P) / F	(L) / F
CCV	"	"	13:50	23.5	759.3	8.5	8.57	100.2	/	/	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Leif Boman	4/11/22	8:50	1105E62	05/23	1000	1000	(P) / F	(L) / F
ICV	"	"	1	2109K	09/23	100	99.8	(P) / F	(L) / F
CCV	"	"	13:50	2109K	09/23	100	98.6	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	Leif Boman	4/11/22	8:50	210792	2/22	7.01	22.3	7.01	-32.9	(P) / F	(L) / F
Calibr.	"	"	1 (LB 3/4/23)	206704	11/22	4.00	22.6	4.00	146.9	(P) / F	(L) / F
Calibr.	"	"	"	207370	03/23	10.04	22.4	10.04	-206.8	(P) / F	(L) / F
ICV	"	"	"	206704	11/22	4.00	22.6	3.99	146.7	(P) / F	(L) / F
CCV	"	"	13:50	207370	03/23	10.02	22.7	10.12	-212.7	(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 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: _____
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: CRUSTY; Date of last verification: _____

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	Leif Boman	4/11/22	8:50	0.272	0.272	(P) / F	(L) / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: