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: ShrimpTrap RQ- 03-29-16 2021-02-08-16 03-29-17 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 3/5/21

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.	Natalie Ayala	3/30/21	0759	23.8	758.8	8.4	8.40	99.5	✓	1.080	(P)/F	(L)/F
ICV	↓	↓	↓	23.9	758.9	8.4	8.42	99.8	✓	✓	(P)/F	(L)/F
CCV	Natalie Ayala	3/30/21	1417	25.3	757.7	8.42	8.50	103.6	✓	✓	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Natalie Ayala	3/30/21	0810	201D26A	11/21	1000	1000	(P)/F	(L)/F
ICV	↓	↓	↓	NA 210127A	2/22	100	103.5	(P)/F	(L)/F
CCV	Natalie Ayala	3/30/21	1431	210127A	2/22	100	103.8	(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.	Natalie Ayala	3/30/21	0830	202114	5/22	7.00	23.5	7.00	-56.4	P/F	L/F
Calibr.	↓	↓	↓	200052	2/22	4.00	23.6	4.00	120.1	(P)/F	(L)/F
Calibr.	↓	↓	↓	203539	6/22	10.01	23.7	10.01	-234.5	(P)/F	(L)/F
ICV	↓	↓	↓	203539	6/22	10.01	23.7	10.01	-234.4	(P)/F	(L)/F
CCV	Natalie Ayala	3/30/21	1433	200052	2/22	4.00	24.0	4.12	114.2	(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 10 178.1, 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: 3/5/21
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: Light ; Date of last verification: 12/4/20

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	Natalie Ayala	3/30/21	0837	0.272	0.273	(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:

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: Crew Daddy RQ- 03-29-21 2021-03-29-72 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 3/5/21

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.	Natalie Ayala	3/30/21	0754	23.7	758.8	8.5	8.50	100.0	✓	1.057	(P)/ F	(L)/ F
ICV	↓	↓	↓	23.7	758.8	8.5	8.49	100.2	✓	✓	(P)/ F	(L)/ F
CCV	Katie Marsh	3/30/21	1525	23.0	757.1	8.5	~~8.29~~	97.0	✓	✓	(P)/ F	(L)/ F
CCV							8.64	101.1			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.	Natalie Ayala	3/30/21	0800	201026A	11/21	1000	1000	(P)/ F	(L)/ F
ICV	↓	↓	↓	210127A	2/22	100	104.4	(P)/ F	(L)/ F
CCV	Katie Marsh	3/30/21	1530	210127A	2/22	100	104.4	(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.	Natalie Ayala	3/30/21	0825	202114	5/22	7.00	24.1	7.00	-56.2	(P)/ F	(L)/ F
Calibr.	↓	↓	↓	200052	2/22	4.00	23.7	4.00	125.1	(P)/ F	(L)/ F
Calibr.	↓	↓	↓	203539	6/22	10.01	23.9	10.01	-233.6	(P)/ F	(L)/ F
ICV	↓	↓	↓	203539	6/22	10.01	23.9	10.01	-233.9	(P)/ F	(L)/ F
CCV	Katie Marsh	3/30/21		200052	2/22	4.00	23.8	4.04	122.2	(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 10 177.4, slope from 4 to 7 181.3 (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: 3/5/21
If **NO**, what will be used? (circle one) Secchi Disk / Line / Sonar Unique ID: Knothead ; Date of last verification: 12/4/20

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	Natalie Ayala	3/30/21	0830	0.272	0.271	(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: