

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: Exo 1 RQ: 2022-04-25-49 Project: SMP - CM

- 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 4/13/22

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.	Victoria Schwartz	4/19/22	17:05	23.5	759.6	8.5	8.48	100.0	✓	1.03005	P/F	L/F
ICV	↓	↓	17:15	23.73	759.6	8.5	8.46	100.1	✓	✓	P/F	L/F
CCV	Victoria Schwartz	4/27/22	15:47	22.710	757.6	8.6	8.58	99.5	✓	✓	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.	Victoria Schwartz	4/19/22	17:29	1105E62	05/23	1000	1000	P/F	L/F
ICV	↓	↓	17:35	2112E28	12/23	100	98.1	P/F	L/F
CCV	Victoria Schwartz	4/27/22	15:52	1103983	02/23	10,000	9895.0	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.	Victoria Schwartz	4/19/22	17:39	210792	02/23	7.01	23.4	7.01	-32.2	P/F	L/F
Calibr.	↓	↓	17:44	206704	11/22	4.00	23.5	4.00	144.1	P/F	L/F
Calibr.	↓	↓	17:48	207370	03/23	10.01	23.6	10.01	-208.3	P/F	L/F
ICV	↓	↓	17:56	206704	11/22	4.00	23.518	3.94	147.8	P/F	L/F
CCV	Victoria Schwartz	4/27/22	15:58	207370	03/23	10.02	23.413	10.10	-213.4	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 10 176.1, slope from 4 to 7 176.3 (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: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; 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	V. Schwartz	4/19/22	17:24	0.00	0.000	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: Addison Creek SMP CM
Round 2

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

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Meter ID:

Craw Paddy

RQ-

2022-04-25-49

Project:

SMP/CM

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.	Katie March	4/27/22	8:10	22.2	756.2	8.7	8.65	99.5	✓	0.9419 85	P/F	L/F
ICV				22.3	756.2	8.7	8.65	99.5	✓		P/F	L/F
CCV	Victoria Schwartz	4/27/22	13:28	22.8	755.3	8.6	8.51	98.9	✓		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.	Katie March	4/27/22	9:15	1105E62	5/23	1000	1000	P/F	L/F
ICV				2112E28	2/23	100	102.6	P/F	L/F
CCV	Victoria Schwartz	4/27/22	13:31	1103983	02/23	10,000	9882.0	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.	Katie March	4/27/22	8:20	210792	2/23	7.01	23.4	7.01	-20.4	P/F	L/F
Calibr.				206704	11/22	4.00	23.4	4.00	157.1	P/F	L/F
Calibr.				207370	3/23	10.01	23.6	10.01	-197.2	P/F	L/F
ICV				207370	3/23	10.02	23.4	10.02	-195.8	P/F	L/F
CCV	Victoria Schwartz	4/27/22	13:34	206704	11/22	4.00	23.3	4.01	154.5	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 10 176.8 slope from 4 to 7 177.5 (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: Kurther 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	K. March	4/27/22	8:40	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:

Used for Addison Creek CM retrieval
2nd reading

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

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Meter ID: Shrimp Trap

RQ: 2022-04-11-07

Project: SMP 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 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.	Katie March	4/27/22	810	22.4	756.2	8.6	8.61	99.5	✓	1.037 835	P/F	L/F
ICV	1	1		22.6	756.2	8.6	8.60	99.5	✓	✓	P/F	L/F
CCV	1	1	1615	26.1	753.9	8.0	8.07	99.5	✓	✓	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	K. March	4/27/22	815	1105E42	5/23	1000	1000	P/F	L/F
ICV	1	1		2112E28	2/23	100	98.0	P/F	L/F
CCV	1	1	1620	2112E28	2/23	100	98.5	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.	K. March	4/27/22	820	210792	2/23	7.01	23.4	7.01	-20.5	P/F	L/F
Calibr.	1	1		206704	11/22	4.00	23.5	4.00	157.2	P/F	L/F
Calibr.	1	1		207370	3/23	10.01	23.6	10.01	-198.0	P/F	L/F
ICV	1	1		207370	3/23	10.01	23.5	10.00	-196.9	P/F	L/F
CCV	1	1	1625	206704	11/22	4.00	23.2	4.09	152.0	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 10 177.5, slope from 4 to 7 177.7 (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: 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	K. March	4/27/22	840	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: