

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 Paddy

RQ:

2021-

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.	<u>Natalie Ayala</u>	<u>3/9/21</u>	<u>0740</u>	<u>21.6</u>	<u>766.6</u>	<u>8.9</u>	<u>8.90</u>	<u>101.0</u>	<u>/</u>	<u>105</u>	<u>P/F</u>	<u>O/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>21.6</u>	<u>766.6</u>	<u>8.9</u>	<u>8.90</u>	<u>101.0</u>	<u>/</u>	<u>-</u>	<u>P/F</u>	<u>O/F</u>
CCV											<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>Natalie Ayala</u>	<u>3/9/21</u>	<u>0746</u>	<u>201026A</u>	<u>11/21</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>O/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>210127A</u>	<u>02/22</u>	<u>100</u>	<u>103.7</u>	<u>P/F</u>	<u>O/F</u>
CCV								<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>Natalie Ayala</u>	<u>3/9/21</u>	<u>0750</u>	<u>202114</u>	<u>05/22</u>	<u>7.01</u>	<u>21.6</u>	<u>7.01</u>	<u>-47.9</u>	<u>P/F</u>	<u>O/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>200052</u>	<u>02/22</u>	<u>4.00</u>	<u>21.7</u>	<u>4.00</u>	<u>130.7</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>203539</u>	<u>06/22</u>	<u>10.04</u>	<u>21.9</u>	<u>10.04</u>	<u>-222.6</u>	<u>P/F</u>	<u>O/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>203539</u>	<u>06/22</u>	<u>10.04</u>	<u>21.9</u>	<u>10.02</u>	<u>-222.1</u>	<u>P/F</u>	<u>O/F</u>
CCV										<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 _____, 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: 3/5/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knottend; 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	<u>Natalie Ayala</u>	<u>3/9/21</u>	<u>0805</u>	<u>0.272</u>	<u>0.273</u>	<u>P/F</u>	<u>O/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:

Not used for sampling.

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

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Meter ID: ShrimpTrap

RQ- 2021-02-08-14

Project: SUP

- 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	3/9/21	0742	21.7	766.5	8.9	8.90	101.3	/	1.051	P/F	L/F
ICV	↓	↓	0743	21.7	766.5	8.9	8.90	101.3	/	/	P/F	L/F
CCV	Leif Boman	1	15:51	23.4	764.6	8.6	8.68	102.1	/	/	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.	Natalie Ayala	3/9/21	0745	201026A	11/21	1000	1000	P/F	L/F
ICV	↓	↓	↓	210127A	04/22	100	103.5	P/F	L/F
CCV	Leif Boman	1	15:51	210127C	02/22	50,000	50,321	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.	Natalie Ayala	3/9/21	0751	202114	05/22	7.01	21.9	7.01	-54.8	P/F	L/F
Calibr.	↓	↓	↓	200052	02/22	4.00	21.8	4.00	122.1	P/F	L/F
Calibr.	↓	↓	↓	203539	06/22	10.04	22.0	10.04	-231.6	P/F	L/F
ICV	↓	↓	↓	203599	06/22	10.04	22.0	10.03	-231.3	P/F	L/F
CCV	Leif Boman	3/9/21	1558	200052	02/22	4.00	23.0	4.05	120.0	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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: 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	3/9/21	0802	0.272	0.273	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: