

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: Desi

RQ:

2021-11-01-34

Project:

SMP unnamed

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 11/10/2021

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.	Katrin Villinger	11/17/21	830	20.7	767.9	9.1	—	101.0	—	1.059	P/F	L/F
ICV	Katrin Villinger	11/17/21	848	21.3	767.9	9.0	8.94	100.9	—	1.059	P/F	L/F
CCV	Katrin Villinger	11/17/21	1445	21.1	766.6	9.0	8.89	99.9	—	1.059	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.	Katrin Villinger	11/17/21	858	210917B	09/2022	1000	1001	P/F	L/F
ICV	Katrin Villinger	11/17/21	908	210917C	09/2022	30,000	49808	P/F	L/F
CCV	Katrin Villinger	11/17/21	1054	210426D	05/2022	20,000	19922	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.	Katrin Villinger	11/17/21	920	2107556	Jul 2023	7.01	21.9	7.01	-21.9	P/F	L/F
Calibr.	Katrin Villinger	11/17/21	928	2107640	Jul 2023	4.00	22.0	4.00	153.6	P/F	L/F
Calibr.	Katrin Villinger	11/17/21	932	2012E08	Jun 2022	10.03	22.0	10.03	-193.5	P/F	L/F
ICV	Katrin Villinger	11/17/21	950	2109125	Sep 2023	7.01	21.7	7.06	-22.5	P/F	L/F
CCV	Katrin Villinger	11/17/21	1058	2012E08	Jun 2022	10.03	21.7	10.03	-194.0	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 10 171.6, slope from 4 to 7 175.5 (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: 11/10/2021

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	Katrin Villinger	11/17/21	953	0.00	0.00	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: