

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: The One

RQ: 2023-06-26-56
2023-06-19-28

Project: HAS Response

2023-02-06-54

SMP: Bandy Branch

- 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 04/19/23

DO FDEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Boro meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	06/28/23	0700	22.5	759.7	8.7	8.72	100.0		1.0266	P/F	L/F
ICV	Thomas Baker	06/28/23	0702	22.2	759.8	8.7	8.73	100.0			P/F	L/F
CCV	Thomas Baker	06/28/23	1457	24.6	759.2	8.3	8.31	100.3			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.	Thomas Baker	06/28/23	0704	4267490	7/24	2500	2500	P/F	L/F
ICV	Thomas Baker	06/28/23	0706	23021713	7/24	100	100.9	P/F	L/F
CCV	Thomas Baker	06/28/23	1500	22057028	7/24	10000	10008	P/F	L/F
CCV							10008	P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP 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.	Thomas Baker	06/28/23	0709	2208634	8/24	7.01	21.7	7.01		P/F	L/F
Calibr.			0713	2301E22	1/25	4.00	22.3	4.00		P/F	L/F
Calibr.			0715	2301E38	7/24	10.03	22.4	10.04		P/F	L/F
ICV	Thomas Baker	06/28/23	0716	2301E22	1/25	4.00	22.4	4.358		P/F	L/F
CCV	Thomas Baker	06/28/23	1505	2301E38	7/24	10.03	22.3	9.95		P/F	L/F
CCV				2301E38						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 _____, 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: Slippery Rock Date of last verification: 02/01/23

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						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: