

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 10 RQ-2023-01-30-13)

Boldly "X" this box if there are qualified data on this page.

Meter ID: **AR4A**

RQ-**2022-12-12-33**

SEST2302

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

01/03/2023

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.	Charlie Hoey	02/01/23	023	22.8	765.1	8.7	8.67	100.7	—	1.08	P/F	L/F
ICV	"	"	025	22.7	765.2	8.7	8.70	101.0	—	1.08	P/F	L/F
CCV	Tirzah Chichester	"	154	23.1	764.4	8.6	8.61	100.6	—	1.08	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.	Charlie Hoey	02/01/23	027	220725C	08/23	1000	1000	P/F	L/F
ICV	"	"	030	220328C	04/23	100	100.3	P/F	L/F
CCV	Tirzah Chichester	"	1600	220328B	04/23	5000	5062	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.	Charlie Hoey	02/01/23	033	220725B	02/24	7.00	24.2	7.00	-20.2	P/F	L/F
Calibr.	"	"	037	221122	06/24	4.01	24.1	4.01	164.0	P/F	L/F
Calibr.	"	"	041	221104C	05/24	10.01	24.1	10.01	-182.5	P/F	L/F
ICV	"	"	043	221104C	05/24	10.01	24.1	9.94	-182.6	P/F	L/F
CCV	Tirzah Chichester	"	1603	220725B	02/24	7.00	23.8	7.02	-13.5	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 **162.3**, slope from 4 to 7 **184.2** (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:

01/03/2023

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	Charlie Hoey	02/01/23	047	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: