

CALIBRATION AND VERIFICATION LOG (FD RQ-2023-03-06-11

100)

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

Meter ID: **ARYA**

RQ-

SEST2303

SMP

RQ-2023-02-27-38

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

0110312023

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	03/06/23	037	23.0	702.9	8.0	8.01	100.4	—	1.08	P/F	L/F
ICV	"	"	040	23.0	702.9	8.0	8.01	100.4	—	1.08	P/F	L/F
CCV	T. Chichester	"	1620	24.4	760.9	8.4	8.35	99.9	—	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	03/06/23	042	221220B	01/25	1000	1000	P/F	L/F
ICV	"	"	045	220725D	08/23	100	100.5	P/F	L/F
CCV	T. Chichester	"	1624	2112667	11/23	50,000	50,295	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	03/06/23	049	220725B	02/24	7.01	23.0	7.01	-13.8	P/F	L/F
Calibr.	"	"	052	221220A	07/24	4.01	23.0	4.01	102.5	P/F	L/F
Calibr.	"	"	058	221104C	05/24	10.02	23.5	10.02	-184.1	P/F	L/F
ICV	"	"	700	221104C	05/24	10.02	23.0	10.00	-184.2	P/F	L/F
CCV	T. Chichester	"	1626	220725B	02/24	7.00	23.2	7.09	-16.0	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 **170.3**, slope from 4 to 7 **170.3** (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:

0110312023

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	03/06/23	703	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: