

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: Arya RQ: 2021-07-05-05 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 7/22/21

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.	Andrew Luering	9/22/21	747	22.6	754	8.6	8.56	99.4	-	1.06	⓪/F	⓪/F
ICV	"	"	750	22.8	754	8.5	8.55	99.2	-	1.06	⓪/F	⓪/F
CCV	"	"	1450	25.3	752	8.1	8.12	99.0	-	1.06	⓪/F	⓪/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.	Andrew Luering	9/22/21	756	1108FS1	8/2023	1000	1009	⓪/F	⓪/F
ICV	"	"	759	1102792	1/2023	100	99.0	⓪/F	⓪/F
CCV	"	"	1454	1105551	5/2023	50,000	49,746	⓪/F	⓪/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.	Andrew Luering	9/22/21	801	210039	10/2023	7.0	22.9	7.05	-29.3	⓪/F	⓪/F
Calibr.	"	"	804	2107E46	7/2023	4.0	22.8	4.01	149.5	⓪/F	⓪/F
Calibr.	"	"	807	2012C64	6/2022	10.0	23.0	10.01	-201.9	⓪/F	⓪/F
ICV	"	"	809	2012C64	6/2022	10.0	23.0	9.98	-202.1	⓪/F	⓪/F
CCV	"	"	1457	2107E46	7/2023	4.0	23.0	3.97	151.2	⓪/F	⓪/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 -172.6, slope from 4 to 7 -178.8 (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: 7/22/21

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	Andrew Luering	9/22/21	811	0.00	0.00	⓪/F	⓪/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: