

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: Des.

RQ: 2022-02-07-19

Project: BMAP 1 + SMP BMA

2022-01-31-51

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 11/10/21

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.	Kim Appleby	2/1/22	849	20.4	766.8	9.1	-	100.9	-	1.069	P/F	L/F
ICV	↓	↓	848	20.4	766.9	9.1	9.11	100.8	-	1.069	P/F	L/F
CCV	↓	2/1/22	1536	20.2	765.7	9.1	9.13	100.8	-	1.069	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.	Kim Appleby	2/1/22	850	210917B	9/2022	1500	1000	P/F	L/F
ICV	↓	↓	854	210426A	5/2022	100	101.7	P/F	L/F
CCV	↓	↓	1537	211122B	12/2022	1413	1402	P/F	L/F
CCV	↓	↓	1538	211122A	12/2022	15000	14956	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.	Kim Appleby	2/1/22	859	2112819	12/2023	7.01	21.6	7.01	-25.3	P/F	L/F
Calibr.			904	2108F51	8/2023	4.00	21.5	4.00	153.2	P/F	L/F
Calibr.			906	2108H37	2/2023	10.04	21.3	10.04	192.1	P/F	L/F
ICV			908	2112819	12/2023	7.01	21.6	7.06	-24.8	P/F	L/F
CCV			1610	2108F51	8/2023	4.00	21.1	4.05	148.9	P/F	L/F
CCV	↓	↓	1616	2108H37	2/2023	10.04	21.3	10.06	-199.1	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 10 171.7, slope from 4 to 7 178 (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: 11/10/21

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	Kim Appleby	2/1/22	912	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: