

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: Desi

RQ: 2020-11-09-415

Project: BMAP2 + Miramar

2020-11-09-31

- 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 10/14/20

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	11/16/20	1014	22.8	765.5	8.7	8.69	100.7	-	1.06417	(P) F	(L) F
ICV	↓	↓	1015	22.7	765.4	8.7	8.75	101.3	-	1.06517	(P) F	(L) F
CCV	↓	↓	1917	22.8	764.9	8.7	8.68	100.7	-	1.06547	(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.	K. Appleby	11/16/20	1016	2009028	9/2021	1000	1000	(P) F	(L) F
ICV	↓	↓	1017	200902A	9/2021	100	103.2	(P) F	(L) F
CCV	↓	↓	1920	191025A	11/2020	1413	1415	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.	R. Appleby	11/16/20	1020	2001631	1/2022	7.00	23.7	7.00	-27.7	(P) F	(L) F
Calibr.	↓	↓	1023	2006806	5/2022	4.00	23.7	4.00	151.0	(P) F	(L) F
Calibr.	↓	↓	1025	2002911	8/2021	10.00	23.6	10.00	-199.7	(P) F	(L) F
ICV	↓	↓	1027	2001631	1/2022	7.00	23.6	7.04	-27.3	(P) F	(L) F
CCV	↓	↓	1923	2002911	8/2021	10.00	21.0	10.02	-201.9	(P) F	(L) F
CCV	↓	↓	1925							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: 10/14/20

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	11/16/20	1030	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: