

CALIBRATION AND VERIFICATION LOG (DEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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

Meter ID: BRUCE

RQ- 2022-03-28-14

Project: WTA Smp Village Bld

- 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 2/3/22

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.	Vincent Mullins	3/30/21	8:14	20.6	763.5	9.0	✓	100.5	✓	1.024	P/F	L/F
ICV	L	L	8:16	20.7	763.6	9.0	9.01	100.5	✓	1.024	P/F	L/F
CCV			15:32	22.5	761.1	8.7	8.68	100.0	✓	1.024	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.	Vincent Mullins	3/30/21	8:20	210917B	09/22	1000	1000	P/F	L/F
ICV	L	L	8:22	210917C	09/22	80000	49848	P/F	L/F
CCV			15:35	211122B	12/22	1413	1408	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.	Vincent Mullins	3/30/21	8:24	2112B19	12/23	7.02	21.8	7.02	-15.3	P/F	L/F
Calibr.	L	L	8:27	2201088	01/24	4.00	21.7	4.00	160.7	P/F	L/F
Calibr.	L	L	8:30	2202A63	7/23	10.04	21.8	10.07	-187.9	P/F	L/F
ICV			8:32	2112B19	12/23	7.02	21.8	7.03	-15.3	P/F	L/F
CCV			15:40	2202A63	7/23	10.03	22.2	10.08	-190.1	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 10 172.6, slope from 4 to 7 175.7 (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: 2/3/22

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	Vincent Mullins	3/30/21	8:15	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:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID: Stitch

RQ: 2022-03-28-14

Project: SMP Vilano Boat

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 2/3/22

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	3/30/22	749	20.7	761.0	9.0	—	100.5	—	1.0701	(P) F	(L) F
ICV	↓	↓	750	20.7	763.9	9.0	9.01	100.5	—	1.0701	(P) F	(L) F
CCV	↓	↓	1538	23.8	761.0	8.5	8.45	99.9	—	1.0701	(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.	Kim Appleby	3/30/22	752	210917B	9/2022	1,000	1,000	(P) F	(L) F
ICV	↓	↓	754	210917C	9/2022	50,000	50035	(P) F	(L) F
CCV	↓	↓	1539	211122A	12/2022	15,000	14985	(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.	Kim Appleby	3/30/22	756	2112B19	12/2023	7.01	21.8	7.01	-27.9	(P) F	(L) F
Calibr.	↓	↓	757	2201D88	1/2024	4.00	21.7	4.00	-14.2	(P) F	(L) F
Calibr.	↓	↓	801	2202A63	7/2023	10.03	21.8	10.03	-199.5	(P) F	(L) F
ICV	↓	↓	804	2112B19	12/2023	7.01	21.8	7.05	-27.6	(P) F	(L) F
CCV	↓	↓	1547	2202A63	7/2023	10.03	22.4	10.07	-203.2	(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 10 171.6, slope from 4 to 7 177.7 (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: 2/3/22

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	3/30/22	805	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: