

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

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

Meter ID: 146101018

RQ: 2020-06-10-37

Project: ZONE 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: 07/20

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.	Ken Harden	09/10/20	0748	25.1	758.9	8.6	8.56	99.9		1000	P/F	L/F
ICV	"	"	0800	22.8	758.9	8.6	8.66	100.7			P/F	L/F
CCV	"	"	1147	31.1	764.8	7.5	7.62	103.1			P/F	L/F
CCV					764.0						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.	Ken Harden	09/10/20	0751	200407D	04/21	1000	1000	P/F	L/F
ICV	"	"	0752	2908947	07/21	100.0	99.3	P/F	L/F
CCV	"	"	1148	191078	10/21	50000	50,008	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.	Ken Harden	09/10/20	0754	200407C	10/21	7.00	23.0	7.01	-29.7	P/F	L/F
Calibr.	"	"	0756	200221B	09/21	4.01	23.2	4.00	151.6	P/F	L/F
Calibr.	"	"	0758	190405D	10/20	10.03	22.7	10.03	-186.0	P/F	L/F
ICV	"	"	0759			10.03	22.6	10.00	-187.2	P/F	L/F
CCV	"	"	1150	200221B	09/21	4.00	26.2	3.97	154.2	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 10 161.3 , slope from 4 to 7 176.3 (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:

If NO, what will be used? (Secchi Disk Line) Secchi Disk Line (Sonar) Unique ID: #1 Date of last verification: 07/20

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						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: