

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: P3 move

RQ: 2022-03-14-50

Project: Hydatic Lake

- 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 01/05/22

DO	Water	Date	Time	Temp	Bar	DO	Meter	% DO	Probe	Probe	Pass	Lab
Depth	Temp				meter	Gain	DO		Charge	Gain	/	/
FT/500					model	mg/L	mg/L				Fail	Field
Calibr.	Thomas Baker	03/23/22	0700	25.9	756.4	8.1	98.1	99.5		1.055	P/F	L/F
ICV	Thomas Baker	03/23/22	0702	25.9	756.5	8.1	8.1	99.7			P/F	L/F
CCV	Thomas Baker	03/23/22	1542	26.7	755.7	8.0	8.02	100.9			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	Water	Date	Time	Temp	Expir	Standard	Meter	Pass	Lab
Conductivity					Date	umhos/cm	Reading	/	/
FT/500							umhos/cm	Fail	Field
Calibr.	Thomas Baker	03/23/22	0706	7108	8/23	2500	2500	P/F	L/F
ICV	Thomas Baker	03/23/22	0708	2109	9/23	100	95.5	P/F	L/F
CCV	Thomas Baker	03/23/22	1545	1108	8/23	2500	2511	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH	Water	Date	Time	Temp	Expir	pH	Temp	Meter	mV	Pass	Lab
Depth					Date	Buffer	°C	Reading		/	/
FT/500						Std		Std		Fail	Field
Calibr.	Thomas Baker	03/23/22	0714	1112	11/23	7.00	25.8	7.00		P/F	L/F
Calibr.			0716	4102	2/23	4.01	25.8	4.01		P/F	L/F
Calibr.			0718	2112	6/23	10.00	25.7	9.99		P/F	L/F
ICV	Thomas Baker	03/23/22	0721	4102	2/23	4.01	25.6	3.99		P/F	L/F
CCV	Thomas Baker	03/23/22	1548	1120	6/23	10.01	24.9	10.03		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 _____, 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: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: DEER Blue Date of last verification: 02/21/22

Pressure mode	Water	Date	Time	Calibrated	ICV Date	Pass	Lab
in air				Value (ft/500)	proven	/	/
				DO/500, mbar/500		Fail	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: