

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

2022-10-03-17

Lake Jackson

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

2022-09-19-32

SMO

Meter ID: 154177

RQ: 2022-09-05-14

Project: 22-2209

- 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 7/22

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.	J. Butcher	10/10/22	748	20.5	760.5	9.0	9.01	100.1	-	1.00	P/F	L/F
ICV	"	"	800	21.0	760.5	8.9	8.83	99.0	-	-	P/F	L/F
CCV	Jon Woods	"	1506	23.7	759.4	8.5	8.53	100.8	-	-	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.	J. Butcher	10/10/22	750	220405B	04/23	1000	1000	P/F	L/F
ICV	"	"	802	210726	07/23	100	101.1	P/F	L/F
CCV	Jon Woods	"	1510	220405B	4/2023	1000	994	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.	J. Butcher	10/10/22	752	220608C	12/23	7.02	20.7	7.02	-10.3	P/F	L/F
Calibr.	"	"	753	220608B	12/23	4.00	20.9	4.00	165.6	P/F	L/F
Calibr.	"	"	758	2K513C	11/22	10.04	20.7	10.05	179.2	P/F	L/F
ICV	"	"	805	"	"	10.04	20.7	10.03	179.4	P/F	L/F
CCV	Jon Woods	"	1511	220608B	12/2023	4.00	21.2	4.14	156.4	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 10 168.9, slope from 4 to 7 173.9 (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: 7/22

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	J. Butcher	10/10/22	746	0.000	0.000	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: