

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: KEYS

RQ:

Project: Algae

- 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 03/19/19

DO FDEP SOP FT 1500	Name	Date	Time CT:ET	Temp °C	Baro meter mmHg	DO Chart mg/L	Meter DO mg/L	%DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Grady Smith	03/17/19	0755	27.44	760	7.45	7.45	100.0	43.1		P/F	L/F
ICV	Grady Smith	"	0759	26.6	760	2.03	8.05	100.2	43.1		P/F	L/F
CCV	Grady Smith	03/07/19	1502	25.2	760	8.25	8.32	101.0	42.0		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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Grady Smith	03/07/19	0747	2901947	03/21	1000	1000	P/F	L/F
ICV	Grady Smith	"	0742	2904082	04/20	100	100	P/F	L/F
CCV	Grady Smith	3/2/19	1506	2811E60	11/20	50,000	49600	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP 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.	Grady Smith	03/07/19	0745	187681	11/20	7.00	25.8	7.00	-14.9	P/F	L/F
Calibr.	Grady Smith	"	0748	190072	01/21	4.00	25.7	4.00	155.2	P/F	L/F
Calibr.	Grady Smith	"	0751	187688	12/20	10.00	25.5	10.00	-18.5	P/F	L/F
ICV	Grady Smith	"	0754	190072	01/21	4.00	25.8	3.97		P/F	L/F
CCV	Grady Smith	03/07/19	1508	187680	01/2021	10.00	24.42	10.00		P/F	L/F
CCV								9.80		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: Deeper Blue; Date of last verification: 12/26/18

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT:ET	Calibrated Value (0.00 or Offset), meters	KV 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.

REMARKS: