

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: KCYS

RQ: 2019-04-01-57

Project: Canoe/Okce

2019-04-01-53

- 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: 3/19/19

DO	Name	Date	Time	Temp	Baro	D.O.	Meter	%DO	Probe	Probe	Pass	Lab
DEP SOP			CT-ET	°C	meter	Chart	D.O.		Charge	Gain	/	/
FT 1500					mmHg	mg/L	mg/L				Fail	Field
Calibr.	Gary Shurt	4/1/19	0737	24.81	760	8.21	8.21	100.0	56.3		P/F	L/F
ICV	"	4/1/19	0741	24.23	760	8.23	8.23	100.0	56.3		P/F	L/F
CCV	S. Carter	4/1/19	1532	24.86	760	8.28	8.02	92.4	56.3		P/F	L/F
CCV												

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.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass	Lab
Cond			CT-ET		Date	umhos/cm	Reading	/	/
FT 1200							umhos/cm	Fail	Field
Calibr.	Gary Shurt	4/1/19	0743	2808E90	8/20	1000	1000	P/F	L/F
ICV	Gary Shurt	4/1/19	0745	2812A65	12/20	100	100	P/F	L/F
CCV	S. Carter	4/1/19	1630	28090250	9/20	10000	9925	P/F	L/F
CCV									

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time	Lot #	Expir.	pH	Temp	Meter	mV	Pass	Lab
DEP SOP			CT-ET		Date	Buffer	°C	reading		/	/
FT 1100						SU		SU		Fail	Field
Calibr.	Gary Shurt	4/1/19	0758	187681	11/20	8.09	25.11	7.00	-61	P/F	L/F
Calibr.	"	4/1/19	0806	187188	11/20	4.01	25.30	3.99	164.3	P/F	L/F
Calibr.	"	4/1/19	0803	186877	10/20	10.01	25.48	10.01	177.9	P/F	L/F
ICV	"	4/1/19	0806	187188	11/20	4.01	25.30	4.01	163.5	P/F	L/F
CCV	S. Carter	4/1/19	1635	186877	10/20	10.00	25.48	10.00	171.8	P/F	L/F
CCV											

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: 12/26/19
 If NO, what will be used? (circle one) Secchi Disk Line Sonar Unique ID: Deeper Blue Date of last verification: 12/26/19

Depth Sensor	Name	Date	Time	Calibrated	ICV Value	Pass	Lab
(Daily Calibration & ICV)			CT-ET	Value (0.00 or Offset), meters	meters	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 $\pm 0.05m$, whichever is greater.

COMMENTS: