

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: H002R

RQ-

2018-09-03-94

Project:

SNP

- 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 9/05/18

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.	Alex Miranda	9/18/18	8:14	22.4	760.8	8.68	8.68	100.1	N/A	N/A	P/F	L/F
ICV	"	"	8:16	22.5	760.7	8.66	8.68	100.2	N/A	N/A	P/F	L/F
CCV	Alex Mirib	9/18/18	16:00	25.5	760.4	8.18	8.18	100.1	NA	NA	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.	Alex Mirib	9/18/18	8:20	2711453	10/19	1000	1004	P/F	L/F
ICV	"	"	8:22	2710781	9/19	100	102.3	P/F	L/F
CCV	Alex Mirib	10.22	9/18/18	1610691	9/18	120k	100231	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.	Alex Mirib	9/18/18	8:24	177435	10/19	7.	22.9	7.14	-12.8	P/F	L/F
Calibr.	"	"	8:26	183218	7/20	4.	23.1	4.02	170.4	P/F	L/F
Calibr.	"	"	8:28	177758	10/19	10.	23.1	10.20	-190.1	P/F	L/F
ICV	"	"	8:30	177758	10/19	10.	23.1	10.0	-188.5	P/F	L/F
CCV	Alex Mirib	9/18/18	14:08	183218	7/20	4.	24.8	4.10	174.2	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 10 172.3, slope from 4 to 7 183.2 (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: 9/05/18

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	Alex Mirib	9/18/18	8:32	0.0	0.0	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:

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:

Lil Gus

RQ:

Project:

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

10/08/18

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.	Kristene Bonilla	09/18/18	8:30	22.8	760	8.61	8.60	100	58.6	0.88	⓪ / F	⓪ / F
ICV				22.8	760	8.61	8.60	99.9	N/A	N/A	⓪ / F	⓪ / F
CCV	Ally Mott	9/18/18	16:40	28.1	780	7.81	7.91	102.3	N/A	N/A	⓪ / F	⓪ / 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.	Kristene Bonilla	09/18/18	8:32	2711453	10/19	1000	1000	⓪ / F	⓪ / F
ICV				2710781	9/19	100	100	⓪ / F	⓪ / F
CCV	Ally Mott	9/18/18	16:42	2708490	8/19	50,000	50,140	⓪ / F	⓪ / 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.	Kristene Bonilla	09/18/18	8:35	177435	10/19	7.	23.02	7.00	-18.1	⓪ / F	⓪ / F
Calibr.				183218	7/20	4.	23.39	4.00	152.4	⓪ / F	⓪ / F
Calibr.				177758	10/19	10.	23.18	10.01	-190.6	⓪ / F	⓪ / F
ICV						10	23.36	10.01	-190.6	⓪ / F	⓪ / F
CCV	Ally Mott	9/18/18	16:44	183218	7/20	4.	22.37	4.01	151.6	⓪ / F	⓪ / 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 10 172.5, slope from 4 to 7 170.5 (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: ; 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	Kristene Bonilla	9/18/18	8:40	0.00	0.00	⓪ / F	⓪ / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: