

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: Hodor

RQ: 2019-11-04-30

Project: SMP-Drum

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

10/30/19

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 Taylor	11/12/19	9:16	21.9	755	8.70	8.70	99.4	✓	1.05	P/F	L/F
ICV	"	"	9:17	22.1	755	8.70	8.69	99.6	✓	1.05	P/F	L/F
CCV	"	"	15:00	25.8	752	8.25	8.25	100	✓	1.05	P/F	L/F
CCV						8.10					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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	11/12/19	9:20	2904947	03/21	1000	1000	P/F	L/F
ICV	"	"	9:21	1902934	01/21	100	103	P/F	L/F
CCV	"	"	15:04	2811E60	11/20	50,000	49562	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.	Kristene Taylor	11/12/19	9:22	192113	04/21	7.01	23.5	7.01	-6.1	P/F	L/F
Calibr.	"	"	9:24	193247	05/21	4.00	23.6	4.00	174.1	P/F	L/F
Calibr.	"	"	9:26	191040	03/21	10.	23.6	10.02	-180.9	P/F	L/F
ICV	"	"	9:28	191040	03/21	10	23.6	9.99	-180.7	P/F	L/F
CCV	"	"	15:06	"	"	4	22.4	4.03	171.7	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 10 174.8, slope from 4 to 7 180.2 (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: 10/30/19

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 Taylor	11/12/19	09:35	0-00	0-00	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)

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Meter ID:

Arga

RQ:

2019-11-11-35

Project:

SMP- SLE Boat
SMP- SLE Boat add

Notes: (1) Always wait for meter to stabilize before recording any readings.

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Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

10/30/19

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 Taylor	11/12/19	9:47	24.3	754	8.30	8.30	99.3	—	1.03	P/F	L/F
ICV	"	"	9:48	24.1	754	8.30	8.33	99.0	—	1.03	P/F	L/F
CCV	Matt Seel	11/12/19	1830	22.5	753	8.6	8.52	95.5	—	—	P/F	L/F
CCV											P/F	L/F

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Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	11/12/19	9:50	2904947	03/21	1000	1000	P/F	L/F
ICV	"	"	9:51	1902939	01/21	100	100.4	P/F	L/F
CCV	Matt Seel	11/12/19	1830	2811E	1/20	50,000	48727	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.	Kristene Taylor	11/12/19	9:53	192113	04/21	7.	23.4	7.00	-41.5	P/F	L/F
Calibr.	"	"	9:56	15193247	05/21	4.	23.3	4.00	132.1	P/F	L/F
Calibr.	"	"	9:58	191040	03/21	10.	23.2	10.00	-209	P/F	L/F
ICV	"	"	10:01	191040	03/21	10	23.2	10.00	-209	P/F	L/F
CCV	Matt Seel	11/12/19	1830	193247	9/21	4	22.8	4.00	129.6	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 10 167.5, slope from 4 to 7 173.6 (both must be between 165 and 180 mV)

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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 Taylor	11/12/19	10:03	0.00	0.00	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: