

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:

Arva

RQ:

2020-01-13-15

Project:

SMP- Kevin (odd months)

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	01/16	8:36	22.4	762	8.7	8.70	100.3	✓	1.02	P/F	L/F
ICV	"	"	8:37	22.5	762	8.7	8.69	100.4	✓	1.02	P/F	L/F
CCV	Drew Liddick	"	1628	20.5	758	9.0	8.99	100	✓	✓	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	01/16/20	8:40	290494	03/21	1000	1000	P/F	L/F
ICV	"	"	8:42	290808	08/21	100	100	P/F	L/F
CCV	Drew Liddick	"	1630	2811E60	11/20	50.000	49.957	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	01/16/20	8:49	193864	06/21	7.01	23.4	7.01	-10.5	P/F	L/F
Calibr.	"	"	8:51	193247	05/21	4.00	23.4	4.00	167.1	P/F	L/F
Calibr.	"	"	8:53	192995	05/21	10.02	23.5	10.02	-187.2	P/F	L/F
ICV	"	"	8:54	192995	05/21	10	22.8	10.02	-188	P/F	L/F
CCV	Drew Liddick	"	1632	193247	05/21	4	20.9	4.00	177.0	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 10 176.1, slope from 4 to 7 177.6 (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	01/16/20	9:02	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)

Meter ID:

1100012

RQ:

2020-01-13-16

Project:

SMP- North

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

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(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.	Alex Miranda	1/16/20	8:10	22.8	762	8.6	8.6	100.3	✓	1.03	P/F	L/F
ICV	" "	" "	8:12	22.8	762	8.6	8.6	100.3	✓	1.03	P/F	L/F
CCV	Kristene Taylor	"	16:31	23.9	760	8.4	8.40	99.7	✓	1.03	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	1/16/20	8:14	2904947	3/21	1000	1000	P/F	L/F
ICV	" "	" "	8:16	2908181	8/21	100	99.6	P/F	L/F
CCV	Kristene Taylor	"	16:33	"	"	1000	1004	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 Miranda	1/16/20	8:18	193864	06/21	7.	23.3	7.01	-20.7	P/F	L/F
Calibr.	" "	" "	8:20	193247	05/21	4.	23.4	4.00	157.8	P/F	L/F
Calibr.	" "	" "	8:22	192995	04/21	10.	23.5	10.02	-200.3	P/F	L/F
ICV	" "	" "	8:24	192995	05/21	10.	23.5	10.00	198.8	P/F	L/F
CCV	Kristene Taylor	"	16:36	"	"	4	23.0	3.97	160	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 10 179.6, slope from 4 to 7 178.5 (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)

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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 Miranda	8/26/20	8:26	0.00	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)

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Meter ID: H00012

RO: 2020-01-13-16

Project: SMP- North

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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.	Alex Miranda	1/16/20	8:10	22.8	762	8.6	8.6	100.3	✓	1.03	P/F	L/F
ICV	" "	" "	8:12	22.8	762	8.6	8.6	100.3	✓	1.03	P/F	L/F
CCV	Kristene Taylor	"	16:31	23.9	760	8.4	8.40	99.7	✓	1.03	P/F	L/F
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Calibr.	Alex Miranda	1/16/20	8:14	2904947	3/21	1000	1000	P/F	L/F
ICV	" "	" "	8:16	2908181	8/21	100	99.6	P/F	L/F
CCV	Kristene Taylor	"	16:33	"	"	1000	1004	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

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Calibr.	Alex Miranda	1/16/20	8:18	193864	04/21	7.	23.3	7.01	-20.7	P/F	L/F
Calibr.	" "	" "	8:20	193247	05/21	4.	23.4	4.00	157.8	P/F	L/F
Calibr.	" "	" "	8:22	192995	04/21	10.	23.5	10.02	-200.3	P/F	L/F
ICV	" "	" "	8:24	192995	05/21	10.	23.5	10.00	-198.8	P/F	L/F
CCV	Kristene Taylor	"	16:36	"	"	4	23.0	3.97	160	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

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