

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: Betty 67

RQ: 2017-12-25-09

Project: SMP

- 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 12/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Natalie Ayala	12/20/17	0800	22.16	8.710	8.72	100.1	28.8	1.14971	⓪/F	⓪/F
ICV	↓	↓	↓	22.19	8.710	8.73	100.2	27.7	↓	⓪/F	⓪/F
CCV	Natalie Ayala	12/20/17	1440	21.95	8.749	8.87	101.3	27.7	1.14971	⓪/F	⓪/F
CCV			1640							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; 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.	Natalie Ayala	12/20/17	0805	170831	09/18	1000	1000	⓪/F	⓪/F
ICV	↓	↓	↓	171023	11/18	100	98	⓪/F	⓪/F
CCV	Natalie Ayala	12/20/17	1445	17023	11/18	100 100	102	⓪/F	⓪/F
CCV			N/A 1645					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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Natalie Ayala	12/20/17	0810	165674	08/18	7.0	7.00	-24.8	⓪/F	⓪/F
Calibr.	↓	↓	↓	171629	04/19	4.0	4.00	150.0	⓪/F	⓪/F
Calibr.	↓	↓	↓	172191	3/19	10.0	10.00	-199.2	⓪/F	⓪/F
ICV	↓	↓	↓	172191	3/19	10.0	9.99	-198.5	⓪/F	⓪/F
CCV	Natalie Ayala	12/20/17	1649	171629	4/19	4.0	4.06	146.2	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 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / ☒ No If yes, list date of last quarterly depth 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						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: **BODY NON**

RQ:

Project: **SNP**

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

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Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

12/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Leif Boman	12/20/17	8:25	22.51	8.660	8.66	100.0	53.3	1.10049	P/F	L/F
ICV	 	 	1	22.53	8.660	8.69	100.1	53.3		P/F	L/F
CCV	 	 	13:25	24.53	8.340	8.27	99.1	53.3	1.10049	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; 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.	Leif Boman	12/20/17	8:25	170831	09/18	1000	1000	P/F	L/F
ICV	 	 	1	171023	4/18	100	99	P/F	L/F
CCV	 	 	15:25	171023	11/18	100	99	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Leif Boman	12/20/17	8:25	165674	08/18	7.0	7.00	-33.9	P/F	L/F
Calibr.	 	 	 	171629	04/19	4.0	4.00	145.7	P/F	L/F
Calibr.	 	 	 	172191	03/19	10.0	10.00	-209.7	P/F	L/F
ICV	 	 	 	171629	04/19	4.0	4.00	145.4	P/F	L/F
CCV	 	 	15:25	172191	03/19	10.0	10.03	-213.8	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 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

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