

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: B00P NON

RQ: 2018-01-29-71

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.	Mike Drennon	1/29/18	820	22.88	8.595	8.59	100.0	42.0	1.02001	(P) F	(L) F
ICV				22.90	8.595	8.58	99.8	42.0		(P) F	(L) F
CCV			1345	22.03	8.744	8.70	99.6	42.0	1.02001	(P) F	(L) F
CCV									LAD	P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.			820	170831	9/18	1000	1000	(P) F	(L) F
ICV				171623	11/18	100	99	(P) F	(L) F
CCV			1345	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.			820	172189	4/19	7.0	7.00	-12.0	(P) F	(L) F
Calibr.				171629	4/19	4.0	4.00	164.1	(P) F	(L) F
Calibr.				174997	7/19	10.0	9.99	-186.2	(P) F	(L) F
ICV				174997	7/19	10.0	9.99	-186.1	(P) F	(L) F
CCV			1345	174997	7/19	10.0	10.01	-187.2	(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 10 174.2, slope from 4 to 7 176.1 (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: Bathy 62

RQ: 2018-

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.

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.	<u>Lif Boman</u>	<u>1/29/18</u>	<u>9:05</u>	<u>22.77</u>	<u>8.611</u>	<u>8.62</u>	<u>100.0</u>	<u>44.1</u>	<u>1.0223</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>22.75</u>	<u>8.611</u>	<u>8.62</u>	<u>99.9</u>	<u>44.1</u>		<u>P/F</u>	<u>L/F</u>
CCV	<u>1</u>	<u>1</u>	<u>16:00</u>	<u>20.51</u>	<u>9.003</u>	<u>9.07</u>	<u>100.8</u>	<u>44.1</u>	<u>1.0223</u>	<u>P/F</u>	<u>L/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	<u>Lif Boman</u>	<u>1/29/18</u>	<u>9:05</u>	<u>170831</u>	<u>09/18</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>171023</u>	<u>11/18</u>	<u>100</u>	<u>98</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>1</u>	<u>1</u>	<u>16:00</u>	<u>171023</u>	<u>11/18</u>	<u>100</u>	<u>98</u>	<u>P/F</u>	<u>L/F</u>
CCV								<u>P/F</u>	<u>L/F</u>

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.	<u>Lif Boman</u>	<u>1/29/18</u>	<u>9:05</u>	<u>172189</u>	<u>04/19</u>	<u>7.0</u>	<u>7.00</u>	<u>-24.4</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>171629</u>	<u>04/19</u>	<u>4.0</u>	<u>4.00</u>	<u>151.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>174997</u>	<u>07/19</u>	<u>10.0</u>	<u>10.00</u>	<u>-199.6</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>171629</u>	<u>04/19</u>	<u>4.0</u>	<u>4.00</u>	<u>150.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>1</u>	<u>1</u>	<u>16:00</u>	<u>174997</u>	<u>07/19</u>	<u>10.0</u>	<u>10.02</u>	<u>-200.9</u>	<u>P/F</u>	<u>L/F</u>
CCV									<u>P/F</u>	<u>L/F</u>

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 ;

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Pressure mode in air						<u>P/F</u>	<u>L/F</u>

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

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