

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: BOOP NON

RQ: 2017-11-13-59

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 8/17

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	11/20/17	845	22.2	8.693	8.71	100.1	50.2	0.96644	☒ F	☒ F
ICV	↓	↓	↓	22.4	8.677	8.59	99.1	54.3	↓	☒ F	☒ F
CCV	Natalie Ayala	11/20/17	1542	22.72	8.627	8.60	99.8	50.2	0.96640	☒ F	☒ 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Natalie Ayala	11/20/17	849	170831	9/18	1000	1000	☒ F	☒ F
ICV	↓	↓	↓	171023	11/18	100	100	☒ F	☒ F
CCV	Natalie Ayala	11/20/17	1543	171023	11/18	100	99	☒ F	☒ 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.	Natalie Ayala	11/20/17	855	165674	8/18	7.0	7.00	-35.3	☒ F	☒ F
Calibr.	↓	↓	↓	166544	10/18	4.0	4.00	138.7	☒ F	☒ F
Calibr.	↓	↓	↓	172191	3/19	10.0	10.00	-211.7	☒ F	☒ F
ICV	↓	↓	↓	166544	10/18	4.0	3.96	141.2	☒ F	☒ F
CCV	Natalie Ayala	11/20/17	1545	166544	10/18	4.0	4.04	137.3	☒ F	☒ 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)

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

Meter ID: Bexty 67

RQ- 2017-10-30-47

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 08/17

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>Leaf Brown</u>	<u>11/20/17</u>	<u>9:05</u>	<u>22.28</u>	<u>8.693</u>	<u>8.70</u>	<u>100.0</u>	<u>41.0</u>	<u>1.00706</u>	<u>P/F</u>	<u>P/F</u>
ICV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>22.28</u>	<u>8.693</u>	<u>8.71</u>	<u>100.2</u>	<u>41.0</u>		<u>P/F</u>	<u>P/F</u>
CCV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>21.87</u>	<u>8.761</u>	<u>8.84</u>	<u>100.8</u>	<u>41.0</u>	<u>1.00706</u>	<u>P/F</u>	<u>P/F</u>
CCV										<u>P/F</u>	<u>L/F</u>

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Leaf Brown</u>	<u>11/20/17</u>	<u>9:05</u>	<u>170831</u>	<u>09/18</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>P/F</u>
ICV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>171023</u>	<u>11/18</u>	<u>100</u>	<u>99</u>	<u>P/F</u>	<u>P/F</u>
CCV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>171023</u>	<u>11/18</u>	<u>100</u>	<u>99</u>	<u>P/F</u>	<u>P/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>Leaf Brown</u>	<u>11/20/17</u>	<u>9:05</u>	<u>1051624</u>	<u>08/18</u>	<u>7.0</u>	<u>7.00</u>	<u>-19.2</u>	<u>P/F</u>	<u>P/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>106544</u>	<u>10/18</u>	<u>4.0</u>	<u>4.00</u>	<u>156.2</u>	<u>P/F</u>	<u>P/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>172191</u>	<u>03/19</u>	<u>10.0</u>	<u>10.00</u>	<u>-193.1</u>	<u>P/F</u>	<u>P/F</u>
ICV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>106544</u>	<u>10/18</u>	<u>4.0</u>	<u>4.00</u>	<u>156.1</u>	<u>P/F</u>	<u>P/F</u>
CCV	<u>1</u>	<u>1</u>	<u>15:55</u>	<u>172191</u>	<u>03/19</u>	<u>10.0</u>	<u>10.10</u>	<u>-199.0</u>	<u>P/F</u>	<u>P/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 ;

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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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.

COMMENTS: