

# 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: LI 700 RQ: 2018-03-26-06 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 12/29/17

| DO<br>FDEP SOP<br>FT 1500 | Name           | Date        | Time<br>CT-ET | Temp         | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | %DO         | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|----------------|-------------|---------------|--------------|-----------------------|-----------------------|-------------|-----------------|---------------|----------------|----------------|
| Calibr.                   | <u>Bentley</u> | <u>3/28</u> | <u>730</u>    | <u>23.45</u> | <u>8.44</u>           | <u>8.67</u>           | <u>100</u>  | <u>56</u>       |               | <u>P/F</u>     | <u>L/F</u>     |
| ICV                       |                | <u>7/28</u> | <u>732</u>    | <u>22.5</u>  | <u>8.79</u>           | <u>8.64</u>           | <u>99.9</u> | <u>57</u>       |               | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                | <u>1/18</u> | <u>710</u>    | <u>22.4</u>  | <u>8.59</u>           | <u>8.55</u>           | <u>99.8</u> | <u>57</u>       |               | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                |             |               |              |                       |                       |             |                 |               | <u>P/F</u>     | <u>L/F</u>     |

DO Acceptance criteria from Table  $\pm 0.3$  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.<br>Cond.<br>FT 1200 | Name           | Date        | Time<br>CT-ET | Lot #          | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|----------------|-------------|---------------|----------------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | <u>Bentley</u> | <u>3/28</u> | <u>734</u>    | <u>270499</u>  | <u>9/19</u>    | <u>1000</u>               | <u>1000</u>                       | <u>P/F</u>     | <u>L/F</u>     |
| ICV                       |                | <u>7/28</u> | <u>737</u>    | <u>2707083</u> | <u>7/19</u>    | <u>100</u>                | <u>102</u>                        | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                | <u>1/18</u> | <u>1412</u>   | <u>270506</u>  | <u>5/19</u>    | <u>500</u>                | <u>520</u>                        | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                |             |               |                |                |                           |                                   | <u>P/F</u>     | <u>L/F</u>     |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>FDEP SOP<br>FT 1400 | Name           | Date        | Time<br>CT-ET | Lot #         | Expir.<br>Date | pH<br>Buffer<br>SU | Meter<br>reading<br>SU | mV          | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|----------------|-------------|---------------|---------------|----------------|--------------------|------------------------|-------------|----------------|----------------|
| Calibr.                   | <u>Bentley</u> | <u>3/28</u> | <u>740</u>    | <u>173851</u> | <u>3/19</u>    | <u>7.0</u>         | <u>7.00</u>            | <u>-22</u>  | <u>P/F</u>     | <u>L/F</u>     |
| Calibr.                   |                | <u>7/28</u> | <u>742</u>    | <u>174998</u> | <u>7/19</u>    | <u>4.0</u>         | <u>4.00</u>            | <u>152</u>  | <u>P/F</u>     | <u>L/F</u>     |
| Calibr.                   |                | <u>1/18</u> | <u>744</u>    | <u>170266</u> | <u>3/19</u>    | <u>10.0</u>        | <u>10.00</u>           | <u>-200</u> | <u>P/F</u>     | <u>L/F</u>     |
| ICV                       |                | <u>7/28</u> | <u>746</u>    | <u>174998</u> | <u>7/19</u>    | <u>4.0</u>         | <u>3.94</u>            | <u>157</u>  | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                | <u>1/18</u> | <u>1420</u>   | <u>173851</u> | <u>3/19</u>    | <u>7.0</u>         | <u>7.14</u>            | <u>-30</u>  | <u>P/F</u>     | <u>L/F</u>     |
| CCV                       |                |             |               |               |                |                    |                        |             | <u>P/F</u>     | <u>L/F</u>     |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;  
 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<br>(Daily Calibration &<br>ICV) | Name | Date | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value<br>meters | Pass<br>/ Fail | Lab<br>/ Field |
|----------------------------------------------|------|------|---------------|-------------------------------------------------|---------------------|----------------|----------------|
| Pressure mode in air                         |      |      |               |                                                 |                     | <u>P/F</u>     | <u>L/F</u>     |

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

COMMENTS: