

# 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: Y51 6920 (#3) RQ: 2018-08-27-20 Project: LSJR West

- 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 \_\_\_\_\_

| 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.            | C Ruben | 8/28/18 | 0740       | 23.8 | 8.45            | 8.49            | 100.6 | -            | 1.103      | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| ICV                | ↓       | 8/28/18 | 0743       | 23.8 | 8.45            | 8.50            | 100.8 | -            | 1.103      | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| CCV                | C Ruben | 8/28/18 | 1205       | 23.6 | 8.48            | 8.50            | 101.3 | -            | 1.103      | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| CCV                |         |         |            |      |                 |                 |       |              |            | P / F                                                        | L / F                                                        |

DO Acceptance criteria from Table  $\pm 0.3$  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 $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail                                                  | Lab / Field                                                  |
|---------------------|---------|---------|------------|---------|-------------|------------------------|-----------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Calibr.             | C Ruben | 8/28/18 | 0746       | 186711A | 7/2019      | 1000                   | 1000                        | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| ICV                 | ↓       | ↓       | 0748       | 180321A | 4/2019      | 100                    | 103                         | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| CCV                 | C Ruben | 1207    | 1207       | 1470708 | 12/2018     | 147                    | 148                         | P / F                                                        | L / F                                                        |
| CCV                 |         | 8/28/18 |            |         |             |                        |                             | 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.            | C Ruben | 8/28/18 | 0753       | 2803E45 | 3/2020      | 7.0          | 7.00             | -14.4  | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| Calibr.            | ↓       | ↓       | 0756       | 2803D38 | 3/2020      | 4.0          | 4.00             | 141.8  | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| Calibr.            | ↓       | ↓       | 0759       | 2711527 | 4/2019      | 10.0         | 9.97             | -163.9 | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| ICV                | C Ruben | 8/28/18 | 0800       | 2803E45 | 3/2020      | 7.0          | 7.01             | -13.3  | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| CCV                | C Ruben | 8/28/18 | 1210       | 2711527 | 4/2019      | 10           | 10.0             | -168.4 | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |
| CCV                |         |         |            |         |             |              |                  |        | P / F                                                        | L / F                                                        |

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 (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                   | C. Ruben | 8/28/18 | 0807       | 0.000                                     | 0.00             | <input checked="" type="radio"/> P / <input type="radio"/> F | <input checked="" type="radio"/> L / <input type="radio"/> F |

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:

BP QC/Scanned 9/13/18 JP 8/31/18