

# 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 name.

Meter ID:

A

Project:

Smf: Key 5.2

Notes: (1) Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up (e.g., 5.15 becomes 5.2).

(2) Always wait for meter to stabilize before recording any readings.

(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

1/7/16

| DO DEP SOP FT 1500 | Name         | Date    | Time (ET) | Temp. (°C) | D.O. Chart mg/L | Meter D.O. mg/L | % DO  | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|--------------|---------|-----------|------------|-----------------|-----------------|-------|--------------|------------|-------------|-------------|
| Calibr.            | Ben Paswater | 2/17/16 | 710       | 19.6       | 9.1             | 9.1             | 100.0 | 46.1         |            | P F         | L F         |
| ICV                | "            | "       | 711       | 19.7       | 9.1             | 9.1             | 99.2  | 46.1         |            | P F         | L F         |
| CCV                |              |         |           |            |                 |                 |       |              |            | P F         | L F         |
| CCV                |              |         |           |            |                 |                 |       |              |            | P F         | L F         |

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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. Cond. FT 1200 | Name       | Date    | Time (ET) | Lot #   | Expir. Date | Standard $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail | Lab / Field |
|---------------------|------------|---------|-----------|---------|-------------|------------------------|-----------------------------|-------------|-------------|
| Calibr.             | Chris Link | 2/17/16 | 713       | 150724A | 8/16        | 10,000                 | 10000                       | P F         | L F         |
| ICV                 | "          | "       | 714       | " "     | " "         | 10,000                 | 10020                       | P F         | L F         |
| CCV                 |            |         |           |         |             |                        |                             | P F         | L F         |
| CCV                 |            |         |           |         |             |                        |                             | P F         | L F         |

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name       | Date    | Time (ET) | Lot #   | Expir. Date | pH Buffer SU | Meter reading SU | mV     | Pass / Fail | Lab / Field |
|--------------------|------------|---------|-----------|---------|-------------|--------------|------------------|--------|-------------|-------------|
| Calibr.            | Chris Link | 2/17/16 | 715       | 150724C | 2/17        | 7.0          | 7.0              | -46.2  | P F         | L F         |
| Calibr.            |            |         |           | 150915A | 9/16        | 4.0          | 4.0              | 118.6  | P F         | L F         |
| Calibr.            |            |         |           | 150521B | 12/16       | 10.0         | 9.9              | -116.5 | P F         | L F         |
| ICV                |            |         |           | " "     | " "         | 10.0         | 9.9              | 183.2  | P F         | L F         |
| CCV                |            |         |           |         |             |              |                  |        | P F         | L F         |
| CCV                |            |         |           |         |             |              |                  |        | P F         | L F         |

Report pH with one decimal place; pH Acceptance criteria  $\pm 0.2$  SU; mV pH7 Range  $0 \pm 50$ ;

mV pH 4 Range  $+180 \pm 50$ ;

mV pH 10 Range  $-180 \pm 50$ ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

| Depth Sensor (Daily) | Name | Date | Time CT-ET | Zero the Sensor | ICV Value | Pass / Fail | Lab / Field |
|----------------------|------|------|------------|-----------------|-----------|-------------|-------------|
| Pressure mode in air |      |      |            | 0.000           |           |             |             |

ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater

Notes:

# Field Meter Calibration Log

Meter ID: VSI 650 multi probe

|            | Date | 2-3-16      | 2-11-16      | 2-17-16       | 2-23-16    | 1      |
|------------|------|-------------|--------------|---------------|------------|--------|
| <b>AM</b>  |      |             |              |               |            |        |
| pH 4.00    |      | 4.          | 4.           | 3.87          | 4.00       |        |
| pH 7.00    |      | 7.          | 7.           | 6.85          | 7.00       |        |
| pH 10.00   |      | 10.         | 10.          | 9.81          | 10.00      |        |
| Cond 147   |      |             |              |               |            |        |
| Cond 717.5 |      |             |              |               |            |        |
| Cond 1413  |      |             |              |               |            |        |
| @ Temp     |      |             |              |               |            |        |
| DO %       |      | 100.7       | 100.8        | 100.4         | 99.8       | 99.5   |
| DO @ Temp  |      | 23.55       | 18.09        | 20.61         | 22.74      | 24.07  |
| <b>PM</b>  |      |             |              |               |            |        |
| pH _____   |      | 4/7/10      | 4/7/10       | 3.75/678/9.7  | 4/7/10     | 4/7/10 |
| Cond _____ |      | —           | —            | —             | —          | —      |
| DO% @ Temp |      | 99.9 / 2485 | 100.8 / 2483 | 100.4 / 23.44 | 99.5 / 247 |        |
| Batteries  |      | 1/2         | 1/2          | 1/2           | 1/2        |        |
| Comments   |      |             |              |               |            |        |
| User       |      | J.D.F.      | J.D.F.       | J.D.F.        | J.D.F.     |        |