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|  **SONDE CALIBRATION WORKSHEET** | Rev. 2020April7 |
| Sonde ID: |   | Date/Time: |  |  | Technician: |   |   |
| Project: |   |  | Battery Percent Remaining: |  |  |
|  |  |  |  |  |  |
| **Dissolved Oxygen** | Barometric Pressure: mmHg  | **Pass Criteria: ± 5%**  |
|  | Initial Reading |  | Calibrated Reading |  | Temperature (oC) |  | Pass/ Fail |
|  | % | mg/L |  | % | mg/L |  |  |   |  |
|  |  |  |  |  |  |  |  |  |  |
|  |
|  |
| **Specific Conductance** | Calibration Constant:\_\_\_\_\_\_\_\_\_\_\_ |  |  **Pass Criteria: ± 5%** |
|  | Standard Value (µS/cm) |  | Standard Lot # |  | Initial Reading (µS/cm) |  | Calibrated Reading (µS/cm) |  | Temp. (oC) |  | Pass/ Fail |
|  | 1,413 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **pH** |  |  |  |  |   **Pass Criteria: +/- 0.2 s.u.** |
| Value (s.u.) |  | Buffer Lot # |  | Initial Reading (s.u.) |  | Calibrated Reading (s.u.) |  | mV \* |  | Temp. (oC) |  | Range (mV) | Pass/Fail |
| 7 |  |  |  |   |  |   |  |   |  |  |  | (0 +/- 50) |   |
| 4 |  |  |  |   |  |   |  |   |  |  |  | (+180+/-50) |   |
| 10 |  |  |  |   |  |   |  |   |  |  |  | ( -180+/-50) |   |
| **\*Note:** Difference in mV between pH4 and pH 7, and pH 7 and pH 10 should be approximately 165 to 180 mV(ex. 165 mV - (-10) mV = 175 mv). If not, probe should be reconditioned and recalibrated. mV1(\_\_\_\_\_\_\_\_) – mV2(\_\_\_\_\_\_\_\_) = \_\_\_\_\_\_\_\_\_ mV |
| **Turbidity** |  |  |  | **Pass Criteria: see chart** |
| Value (NTU) |  | Standard Lot # |  | Initial Reading (NTU) |  |  | Calibrated Reading (NTU) |  | Pass/Fail |
| 0 |  | DI |  |  |  |  |  |  |  |
| 100 |  |  |  |  |  |  |  |  |  |
| 1,000 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Calibration Verification** | Date/Time: |  |  |  | Technician: |  |  |
| Dissolved Oxygen |  | Temperature (oC) |  | Pressure (mmHg) |  |  |  | P/F or LTD Qual. |
| % | mg/L |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Specific Conductance (µS/cm) |  | Standard Lot # |  | Reading (µS/cm) |  |  |  | Temp. (oC) |  | P/F or LTD Qual. |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| pH Value (su) |  | Buffer Lot # |  | Reading (s.u.) |  | mV |  | Temp. (oC) |  | P/F or LTD Qual. |
|   |  |  |  |  |  |  |  |  |  |   |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Turbidity Value (NTU) |  | Standard Lot # |  | Reading (NTU) |  |  |  |  |  | P/F or LTD Qual. |
| 0 |  | DI |  |  |  |  |  |  |  |  |
| 100 |  |  |  |  |  |  |  |  |  |  |
| 1000 |  |  |  |  |  |  |  |  |  |  |
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| **SONDE CALIBRATION WORKSHEET** |
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|   |  |  |  |  |  |  |   |
| **Maintenance** |  **Yes** |  **No** |  **Note** |
| Software update performed |  |  |  |  |
| Factory reset performed |  |  |  |  |  |
| pH junction fluid replacement |  |  |  |  |  |
| pH junction replacement |  |  |  |  |  |
| Turbidity wiper changed? |  |  |  |  |  |
| Other maintenance performed? |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Calibration/Post-Check/Maintenance Comments** |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
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| **Parameter** | **Standard** | **Standard Value** | **In-Calibration Range** | **Linear Interpolation Range****(Max Allowable Limits)** |
| Temperature, °C | NIST Traceable Thermometer | Ambient Temperature | ± 0.5 °C | ± 2 °C |
| Conductivity, µS/cm | Standard Solution | 1413 µS/cm | ± 5% | ± 30% |
| Dissolved Oxygen, % | Saturated Air | 100 % | ± 5% | ± 30% |
| pH, s.u. | Buffer Solution | 4.0, 7.0, 10.0 | ± 0.2 | ± 1 |
| Turbidity, NTU | DI Water | 0 NTU | ± 1 NTU | ± 10 NTU |
| Standard Solution | 100 NTU | ± 5 NTU | ± 30 NTU |
| 1000 NTU | ± 50 NTU | ± 300 NTU |
| **Parameter** | **Corrected Qualifier (LTD only)** | **Rejected Qualifier** |
| Temperature, °CConductivity, µS/cmDissolved Oxygen, %Dissolved Oxygen, mg/LpH, s.u.Turbidity, NTU | **CT****CSC****C%****CDO****CPH****CY** | **RT****RSC****R%****RDO****RPH****RY** |

 **QA Criteria:**