Blue text is replaceable instructional language to be customized for your facility.

**Lab Certification #: Date: Facility Name:**

**Sample Collector/Analyst: / Permit #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**pH**

Reference Method: (include year for SM methods) Instrument ID:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Calibration Time | Calibration Buffer (true value) S.U. | Calibration Buffer (true value) S.U. | Calibration Buffer (true value) S.U.  If calibrating with 3 buffers | \*Check Buffer (true value) S.U. | Comments |
|  | (use of check mark is acceptable) | (use of check mark is acceptable) | (use of check mark is acceptable) | (must document obtained value) |  |

\*pH check buffer must read within ± 0.1 S.U. of the buffer’s true value. Check buffer acceptable (circle)? Yes / No

4 S.U. buffer Lot#/: 7 S.U. buffer Lot#/: 10 S.U. buffer Lot#:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sample location | Sample Collection Time\*\* | Sample Analysis Time\*\* | pH Reading | Reported pH  Result | ►Post-analysis Buffer Check True Value: | | Comments/Data Qualifiers |
|  |  |  |  |  | Time | Result |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

\*\*If sample is measured directly in the stream or immediately on site, one time may be recorded for collection and analysis with the notation in the comments box that they are measured *in situ* or immediately at the sample site.

► A post-analysis calibration verification must be analyzed at the end of the run any time the meter is transported by vehicle to another location after calibration. The Post analysis buffer check must be within ± 0.1 S.U. of the buffer’s true value.

Post-analysis check buffer acceptable (circle)? Yes / No

**All pH values are in pH units (i.e., S.U.)**. Record all data to the nearest 0.01 S.U. and report to the nearest 0.1 S.U on DMRs.

Follow PT vendor’s instructions for reporting PT Sample results.

**Dissolved Oxygen (DO)**

Reference Method: (include year for SM methods) Instrument ID:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Calibration Time | Calibration Variable (elevation or barometric pressure- include units of measure) | Calibration  Variable  (temperature- include units of measure) | Meter reading  (mg/L or % saturation) after calibration | †Post-analysis calibration verification  (when analyzing at multiple sites) | | | | Comments |
| Temp  (°C) | Table DO value (mg/L) | Elevation (Ft.) or Barometric Pressure  (mm Hg) | Correction factor from theoretical DO table |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Calculated Value (mg/L) | Meter  Reading (mg/L) |  |
|  |  |  |  | TIME |  |  |  |  |

Note: Calibration Variable for salinity is set to default of 0 ppt since salinity values are consistently ≤ 9 ppt

† A post-analysis calibration verification must be analyzed at the end of the run any time the meter is transported by vehicle to another location after calibration.

The meter reading and calculated theoretical value must agree within ± 0.5 mg/L. Acceptable? Yes / No (circle)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample Location | Sample Collection Time | \*Sample Analysis Time | DO reading (mg/L) | Comments/Data Qualifiers |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

\* If sample is measured directly in the stream and/or onsite, only time analyzed would be recorded with a note in the comments box that they are measured in situ or immediately at the sample site

**Temperature**

Reference Method: (include year for SM methods) Instrument ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sample Location | Sample Collection Time | \*Sample Analysis Time | Temperature  (°C) | Comments/Data Qualifiers |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

\* If sample is measured directly in the stream and/or on site, only time analyzed would be recorded, with a note in the comments box that they are measured in situ or immediately at the sample site

Annual Verification Date

**Total Residual Chlorine (TRC)**

Reference Method: (include year for SM methods) Instrument ID:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Time Daily  Check Standard Analyzed | Daily Check Standard Reading  µg/L or mg/L  (remove one) | Time  Post-analysis check Standard Analyzed | Post-analysis Check Std. Reading  µg/L or mg/L  (remove one) | Comments/Data Qualifiers |
|  |  |  |  |  |

TRC Daily (and Post-Analysis if needed) Check Standard True Value µg/L or mg/L Acceptance range µg/L or mg/L

Check standards must recover within ±10% of the check standard’s true value. Is the daily check std acceptable (circle)? Yes / No

[A post-analysis check standard must be analyzed at the end of a run any time the meter is transported by vehicle to another location after calibration]

Is the post analysis check std acceptable (circle)? Yes / No

Annual Calibration Curve Verification Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Program used: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Method Blank Value: µg/L or mg/L Is method blank ≤50% of reporting limit (circle)? Yes / No (When applicable. Analyze and document a method blank when standards, sample dilutions or PT Samples are prepared)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sample  Location | Sample Collection Time | Sample Analysis Time | TRC Meter Reading  µg/L or mg/L  (remove one) | [Hach 10014 only]  Reagent Blank Value  µg/L | TRC Result  Reported  µg/L or mg/L  (remove one) | Comments/Data Qualifiers |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

[if using Hach 10014] Are all reagent blank values <5 µg/L (circle)? Yes / No

**Conductivity**

Reference Method: (include year for SM methods) Instrument ID:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Calibration Std  (True Value with units)  Time | Calibration Check Std Reading  (add units) | Post-analysis Calibration  Check Std Time | Post-analysis Calibration Check Std Reading  (add units) | Comments |
|  |  |  |  |  |

The check standard(s) must recover within 10% of the true value.

Check Standard True Value (add units) Acceptance range (add units) Is the calibration check acceptable (circle)? Yes / No

[A post-analysis check standard must be analyzed at the end of a run any time the meter is transported by vehicle to another location after calibration]

Is the post-analysis check std acceptable (circle)? Yes / No

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample Location | Sample Collection Date | Sample Collection Time | \*Sample Analysis Date | Conductivity Result (add units) | Comments/Data Qualifiers |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

\* If sample is measured directly in the stream and/or on site, only time analyzed would be recorded, with a note in the comments box that they are measured in situ or immediately at the sample site

ATC check date:

**Settleable Residue**

Reference Method:**­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (include year for SM methods)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample Location | Sample Collection Date | Sample Collection Time | Sample Volume  (mL) | Sample Analysis Date | Sample Analysis Start Time | 45-Min Stir (check) | Sample Analysis End Time | mL Residue | Reported Value  (mL/L) | Comments/Data Qualifiers |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**Salinity**

Reference Method: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (include year for SM methods) Instrument ID: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Calibration Std  (True Value with units)  Time | Calibration  Std  Temperature  (°C) | Calibration Check Std Reading  (add units) | Cal Check Std  Temperature  (°C) | Post-analysis Cal Check Std Time | Post-analysis Cal Check Std  Temperature  (°C) | Post-analysis Calibration Check Std Reading  (add units) | Comments |
|  |  |  |  |  |  |  |  |

The check standard(s) must recover within 10% of the true value.

Check Standard True Value (add units) Acceptance range (add units) Is the calibration check acceptable (circle)? Yes / No

[A post-analysis check standard must be analyzed at the end of a run any time the meter is transported by vehicle to another location after calibration]

Is the post-analysis check std acceptable (circle)? Yes / No

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sample Location | Sample Collection Date | Sample Collection Time | \*Sample Analysis Date | \*Sample Analysis Time | Sample  Temperature  (°C) | Salinity Result  (add units) | Comments/Data Qualifiers |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

\* If sample is measured directly in the stream and/or on site, only time analyzed would be recorded, with a note in the comments box that they are measured in situ or immediately at the sample site