

# pH

- **Standard Method 4500-H+ B and pH meter with ATC (automatic temperature compensation)**
- **pH paper is not acceptable for compliance analysis**
- **Samples must be analyzed within 15 minutes of collection (field parameter)**
- **pH meter must be calibrated each day of use; need a 7 buffer and either a 4 or 10 buffer based on sample pH**
- **If the pH meter slope is within the owner's manual range, the calibration is acceptable**
- **If using a refillable electrode, plug must be out**

# **Total Residual Chlorine Issues**

- **Is analysis being performed within 15 minutes of collection?**
- **Are samples collected in glass bottles and filled completely?**
- **Is an acceptable method and instrument being used?**
- **Has a standard ever been analyzed?**
- **Has the detection limit reported ever been verified?**
- **Is the correct form of chlorine being tested?**

# Total Residual Chlorine

- **Hach Method 8167 and a portable colorimeter or spectrophotometer**
- **Samples must be analyzed within 15 minutes of collection (field parameter)**
- **Analyze a  $\text{KMnO}_4$  standard at least once a year and achieve 50 – 150% recovery – 0.02 mg/L and 0.03 mg/L = LOQ (not LOD)**
- **Make sure that “total” residual chlorine DPD packets are used and not “free”**