

## Nitrate Kit Instructions

1. Fill sample bottle (0688) with sample water.
2. Fill one test tube (0820) to the 2.5 mL line with water from the sample bottle.
3. Dilute to 5 mL line with Mixed Acid Reagent. Cap and mix. Wait 2 minutes.
4. Use the .1g spoon to add one level measure (avoid any excess) of Nitrate Reducing reagent. Cap and invert gently 50-60 times on one minute. Wait 10 minutes.
5. Inset test tube into Octet Comparator (color comparator). Match sample color to a color standard. Record as ppm nitrate nitrogen (NO<sub>3</sub>-N).

### **Tips**

When measuring liquids, the bottom of the meniscus should be touching graduated line on test tube.

Place test tube in storage hole provided in kit when timing reactions.

Be aware of wind direction when measuring out cadmium powder (Nitrate Reducing Reagent). Prevent powder from blowing into eyes, nose, or mouth.

Hold the Octet Comparator up to a white sheet of paper to match the sample color to a color standard.

Do NOT multiply result by 4.4 as suggested in final step of kit directions. Record on your data sheet the reading taken directly from the comparator. Results should be reported as nitrates as nitrogen. Multiplying the result by 4.4 converts it to a straight nitrate reading.

**Containerize all waste.**