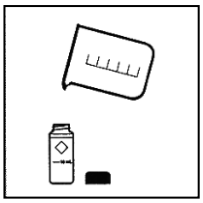
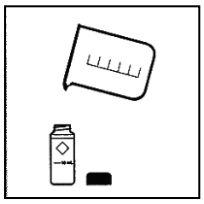
Total Chlorine (TC) Residual Test Procedures

The Total Chlorine (TC) residual will **ALWAYS** be higher than the Free Available Chlorine (FAC) residual. If you find that the TC residual is lower than the FAC residual then something went wrong and you should try the tests again. The TC residual levels in the water should be less the 1.0mg/L if your raw water is relatively clean. If you get TC residual readings that are higher than 1.0 mg/L for two days in a row you should contact your Environmental Health Officer (EHO).

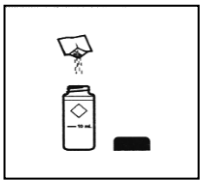
To test TC follow these steps:

1. Rinse **two** test cells 3 times with distilled water, or with the sample water. Fill them both to the 10 ml line with the water that was taken from the truck. Put the cap on one of the cells and wipe the outside of the cell clean so that it is free of fingerprints and dust. This cell will be called the '**blank'.**

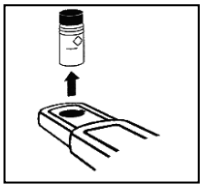




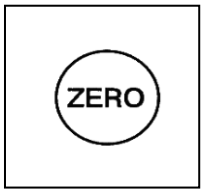
2. Add one DPD Total Chlorine Powder Pillow to the other cell. Place the cap on the cell and shake it gently for 20 seconds or until all the powder has dissolved. Wipe the cell clean of fingerprints and dust **Wait 3 minutes for the powder to react.** This will be called the 'p**repared sample**'.



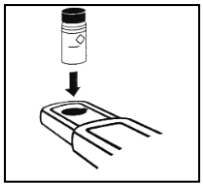
3. Remove the cap from the instrument. Place the '**blank'** in the cell holder with the diamond mark facing you. Tightly cover the cell with the instrument cap.



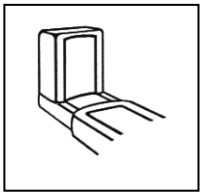
4. Press the **ZERO** button. The instrument will turn on and the display will show---then 0.00.



5. Remove the '**blank'** from the instrument and place the '**prepared sample'** into the cell holder with the diamond mark facing you.



6. Tightly cover the cell with the instrument cap.



7. Press the **READ** button. The instrument will show--- followed by the results in mg/L total chlorine (TC). **RECORD THE RESULTS!!!**