



## **Total Dissolved Solids (TDS)**

Total Dissolved Solids is the total of ALL chemical residues, human wastes, dust, and debris dissolved by the swimming pool water. The addition of chemicals increases TDS levels.

The NSW Department of Health Guidelines recommend that the TDS of the make up water be regularly compared to that of the pool; so you know the difference!

As a general rule the TDS should not rise more than 1000 PPM above that of the make up water, and should not be allowed to exceed an absolute of 3000 PPM.

TDS is reduced with regular backwashing and the addition of fresh make up water.

High TDS can slow down the disinfection process of Hypochlorous acid, as explained in previous fact sheets.

### Contributions to TDS include:

- Chloramines (from chlorine and body wastes)
- Breakdown of HOCL and OLL-, resulting in chlorides and or salt
- Air borne containments (rain, dust, etc)
- Chemical balancing-the addition of Sodium Bicarbonate & Calcium Chloride

### Problems from high TDS Include;

- Eye & Skin irritation from carbonates, phosphates or sulphates
- Increased algae (algae thrive on the above)
- Reduced filter cycles
- Taste of the water-from high salt content
- Dis-colouration of the water- clarity

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