

## TSHWANE DRINKING WATER

The supply of fresh clean drinking water to the residents of the City of Tshwane area is achieved by a number of Water Treatment Plants which are responsible for the treatment processes to supply water which complies with the South African National Standard (SANS241) drinking water standards to ensure that water is clean and healthy for human consumption and in line with world standards.

The Scientific Services Drinking Water Laboratory which is situated adjacent to R21 to OR Tambo Airport at the Rietvlei Water Treatment Works, off the Nellmapius Road in Irene, is responsible for the monitoring of all the treatment processes up to the final stage as well as the supply networks of all the Tshwane owned Drinking Water Treatment Plants within the borders of the City of Tshwane. The section is also responsible to ensure that drinking water within the borders of the whole of the Tshwane area comply with SANS241 drinking water standards.

A well-equipped chemical and micro-biological laboratory is responsible for all the required chemical and micro-biological analyses as legally required by the Drinking Water Standard SANS241 as well as various compliances required by the Department of Water Affairs (DWA). Samples are taken starting from the raw water, through the treatment process to the final product, and throughout the distribution network, are analysed on a regular basis and on ad hoc if required to ensure that the residents of Tshwane are supplied with good quality drinking water. The results of these analyses are sent to a data base where they can be easily accessed and various reports for research purposes can be drawn. For the purposes of this report results from all the final waters were drawn for a one year period and the total compliance for each parameter tested can be viewed. This compliance report compares the result to the required standard and a compliance of 100% is the ideal. At the end an average of all the compliances is calculated and simplified single figure compliance can be viewed.

From these compliance averages it can be seen that the figures for the whole of the Tshwane area should give the consumer an assurance that the drinking water is safe to drink. Tshwane Central and South as well as Northern areas and Bronkhorstspuit (which is now also included in the Tshwane area) have achieved Blue Drop Status as assessed and awarded by the Department of Water Affairs in January 2012 for the 12 month period preceding the assessment. The next assessment for the 2012 period will take place during 2013.

These results are also used to implement new technology and techniques to our processes where improvement may be required. Residents can be assured of our continual commitment in achieving the best possible quality in drinking water.