An upgrade to the WWW was not envisaged in the near future, but since the implementation of maintenance work in the reticulation in August 2010, the inflow to the works has climbed to 50% above the design capacity. This situation will have to be addressed.
6.4 Howick Wastewater Works and Mpophomeni Wastewater Works

Umgungundlovu District Municipality provides wastewater treatment services for the uMngeni Local Municipality at the Howick WWW. A large pump station at the Mpophomeni WWW site and a number of smaller pump stations in Howick transfer wastewater for treatment at Howick WWW. Umgeni Water has a management contract with Umgungundlovu District Municipality to operate this WWW on their behalf.

Figure 6.8 Howick Wastewater Works.

Howick WWW has a design capacity of 6.8 ML/day and is currently treating 5 ML/day. The WWW site is currently fully utilised. If further treatment capacity is required on this site, the drying beds will have to be replaced with mechanical dewatering or the WWW will have to be upgraded to a membrane bioreactor (MBR) or similar.

Mpophomeni WWW is currently not functioning, and is only used as a transfer station to Howick WWW. This WWW will be reinstated as a treatment facility as soon as the necessary finances have been raised by Umgungundlovu District Municipality. The proposed plant will be designed to treat 3 ML/day. The site has space for at least 20 ML/day.

The area served by the Howick WWW and Mpophomeni WWW is in a high rate of expansion (Section 2.5). Despite this, there appears to be relatively little forward planning of the wastewater infrastructure being carried out. The combination of this growth combined with the restrictions on the size of the Howick WWW site could limit development. This situation needs to be rectified.
6.5 Albert Falls North and South Wastewater Works

The two Albert Falls WWWs (Figure 6.6) are transportable activated sludge units installed for the construction of the dam in the early 1970s. They were probably originally designed for approximately 100 m$^3$/day (0.1 Ml/day). The bulk of the current feed to these WWWs is from conservancy tank contents delivered by tanker from the Albert Falls and Bon Accord resorts. Umgeni Water is currently refurbishing the WWW to a Sequencing Batch Reactor (SBR) configuration with a treatment capacity of 40 m$^3$/day to suit present demands.

Figure 6.9 Albert Falls Wastewater Works

Figure 6.10 General layout of the Albert Falls North and South WWWs.