

Wastewater management

Lanseria Airport commissioned and developed an expert wastewater treatment works (WWTW), and this innovative system has also attracted the participation of Lanseria Corporate Estate, Gauteng's newest upmarket industrial property development.

Forming part of Lanseria Corporate Estate's large-scale R200 million investment in infrastructure, the new WWTW is one of the plants in Gauteng that complies with the City of Johannesburg's new and extensive wastewater management regulations. In addition to many other advantages, this green awareness solution sees treated domestic sewage being reused to irrigate both the airport and Lanseria Corporate Estate, reducing demand on otherwise potable water supplies.

Lanseria Corporate Estate is a joint venture by an investment consortium including Efcon Capital and New Property Ventures. It is marketed by Montagu Property Group and Property Logic.

Wastewater specialist Tecroveer was approached to develop the best solution to meet Johannesburg Water's specifications and other future requirements. This resulted in a dedicated mechanical, biological wastewater



Expert wastewater treatment works (WWTW) at Lanseria Corporate Estate. Photography courtesy of Tecroveer

application, implemented over three phases. The consultant appointed was Virtual Buro and the civil contractor Infracore. The process design, civil geometrical design and mechanical equipment were provided by Tecroveer.

Based on the worldwide accepted activated sludge principle, the biological process includes key technology features that deliver an efficient and cost effective solution to reduce organic carbon and nitrogen compounds to environmentally acceptable levels. This helps to further protect the surrounding environment. ●