

case study

**Location:**

Ferndale, Johannesburg

Industry:

Shopping Centre

Final water usage:

Potable Water

Plant information:

98KLPD Borehole Water Treatment Plant

Problem statement

A shopping mall in Ferndale, Johannesburg was experiencing severe challenges due to failing water infrastructure. The existing systems were unreliable and unable to provide a consistent and safe water supply to support daily operations. The site relies on municipal supply with limited storage and disconnected systems for domestic use, irrigation, and backup. This leads to inefficiencies, poor water prioritisation, and increased risk during shortages. Without an integrated control strategy, borehole water cannot be optimally utilised, impacting overall water security.

The available borehole water was classified as Class 2, meaning it was unsuitable for direct human consumption without advanced treatment.

Solution statement

Sewtreat installed an integrated system combining a new borehole water treatment plant with existing infrastructure. Intelligent controls prioritise supply to key systems, while additional storage (74 kL) and tank level management improve reliability. The solution enhances water security, optimises usage, and ensures compliance through WULA approval.

Overall, the solution delivers a smarter, more resilient water system — improving water security, increasing storage capacity, and enabling efficient, prioritised distribution across all site requirements.

Plant benefits

- ✓ Water Security
- ✓ Smart Control
- ✓ Increased Capacity

