

OLIFANTSVLEI WATER TREATMENT FACILITY

Southern Johannesburg, Gauteng, South Africa
(Upgraded waste water treatment facility)

PROJECT TYPE:

Main civils for bulk water reservoir

CLIENT:

Johannesburg Water

PROJECT DESCRIPTION:

Construct a mega litre concrete reservoir as main structure.

Expand existing waste water works to 100ml/day to service an additional 50 000 housing units to meet stringent treated effluent compliance standards and mitigate contamination of streams and rivers in the catchment area.

CONTROLS / SOLUTIONS:

The upgrade consisted of :

- an activated sludge reactor,
- mixers aerators,
- recycling pumps,
- a flow divider, three clarifiers,
- a pump station,
- a monitoring building,
- inter-connecting pipework,
- paved roads, storm water drains and
- cable trenches.

As a result of the upgrade, the Olifantsvlei Wastewater Works was awarded 1st place by the Water Institute of Southern Africa (WISA) in its annual Isigidi Awards for the Best Wastewater Treatment Works in the country.

