# VAAL RIVER EASTERN SUBSYSTEM AUGMENTATION PROJECT (VRESAP) FREE STATE – GAUTENG - MPUMALANGA

PROJECT TYPE: PIPELINE, EARTHWORKS **AND CIVIL WORKS** 

CLIENT:

TRANS-CALEDON TUNNEL AUTHORITY (TCTA)

VALUE:

R1.7 billion

## **CONSULTANTS:**

Vaal Pipeline Consultants JV (GOBA, Ninham Shand and PD Naidoo & Associates)

## PROJECT DURATION:

Originally an 18 Month Emergency Pipeline which eventually ended up as 9 year project due to Cathodic Protection and issues surrounding coatings

## DATE OF PROJECT:

November 2005

## PROJECT DESCRIPTION:

The project included for the supply and installation of 113km of 1.9m diameter pipes from the Vaal Dam to Knoppiesfontein and a further 5.6km gravity line from Knoppiesfontein to Trichardsfontein varying between 1.2m and 1m diameter.

The pipes were spirally welded during manufacture and supplied in lengths of 12m, 18m and 19.2m which were then butt-welded on site.

Cathodic Protection was installed along the entire pipeline in view of soil conditions and stray currents along the route.

Supply and installation of various size valves.

Civil works included for the construction of various Valve and Scour Chambers.





