



Project Sheet

Consolidation Of Water Connections To Consumers In The Wadeville Area

LOCATION: Ekurhuleni Metropolitan Municipality, Gauteng, South Africa.

PROJECT TITLE: Consolidation Of Water Connections To Consumers In The Wadeville Area

CUSTOMER: Ekurhuleni Metropolitan Municipality (EMM), Mr Andries Kruger, Tel 082-3344056, Revenue Services, Boksburg Civic Centre, C/O Trichards Rd and Commissioner St, Boksburg Tel 011 999 5355, Fax 011 917 1318, email Andries.Kruger@ekurhuleni.gov.za, Additional Contact: Johan Vorster 011-999 5684 email: Johan.Vorster@ekurhuleni.gov.za

STATUS: Ongoing **DURATION:** July 2012 to June 2014.

OBJECTIVE: The project involves investigating and consolidating the water supply connections to over 700 of the largest industrial consumers in South Africa located in Wadeville which is the main industrial area in Ekurhuleni Metropolitan Municipality over a 2-year project period. In addition to consumer meter consolidation the network was assessed for operation and maintenance, closed / inoperable isolating valve were identified and replaced, leaks were identified and repaired. Work is undertaken using the following methodology. Identify consumers, investigate and document all supplies, conduct zero pressure test to confirm all supplies have been located. Design the consolidation of multiple supplies into a single connection, co-ordinate and supervise construction (undertake by contractor). Document all work undertaken and prepare completion report for each intervention

DESCRIPTION

The project included the following main tasks:

- Field investigations to locate supply meters
- Data logging of pressures and flow to determine network status and ability to provide water for firefighting
- Liaison and extensive interaction with water consumers
- Engineering Design of new meter installation and pipelines required
- Construction supervision
- Project management
- Financial administration

RESULTS

To date the project has been incredibly successful. Over 220 unmetered connections have been located and eradicated from the system. Over 900 old meters have been removed and a total of 450 new meter installations installed. Over 50 lost or buried meters were located and information updated on the council billing system. An increase in the metered billed consumption of over 20% or 378 000m³/annum (\$600 000 / annum) has been achieved. The increase in billed water consumption results in an increase in sewerage charges of approximately \$200 000 / annum. Construction Cost \$1 200 000. Payback Period = 4 years.

