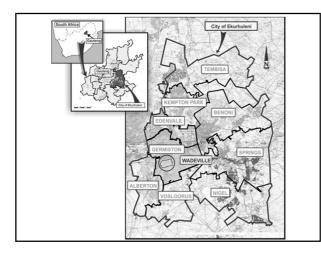
Wadeville Consumer Meter Consolidation Project - Case Study Presented by: T. Godzwana

Primary Project Objectives

- Upgrade aging water meter infrastructure
- Consolidate supplies to consumers
- Address metering and billing errors
- Reduce Commercial losses
- Reduce Physical losses



Project Role Players

Client: Ekurhuleni Metropolitan

Municipality- Water & Sanitation
Department: Water Revenue Management

• Meter Management Consultant: **Tsekema**

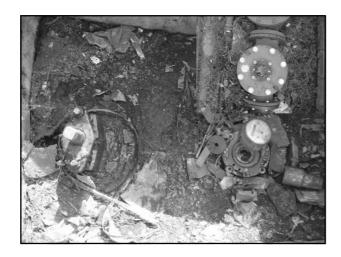
• Implementing Consultant: **WRP Consulting**

• Contractor: Galaxy Pipelines

Background

- Wadeville industrial area consists of more than 500 non-domestic consumers
- Water infrastructure and connections were constructed many years ago and are in poor condition
- Many below ground meters are buried and are not read
- Many fire supply connections are not metered
- Some fire reticulation has leakage which is unknown







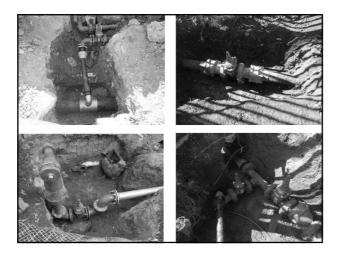




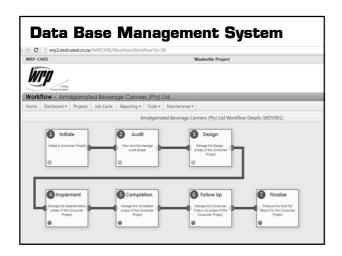
Project Methodology

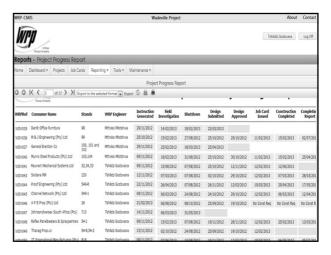
- Identify all supplies to each consumer
- Conduct zero pressure test to confirm all supplies have been located
- Design and size consolidation of supplies
- Consolidate consumer supply meters to a single meter per consumer
- Update municipal billing system
- Prepare final report



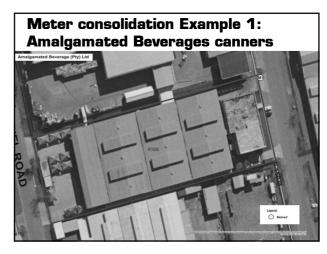


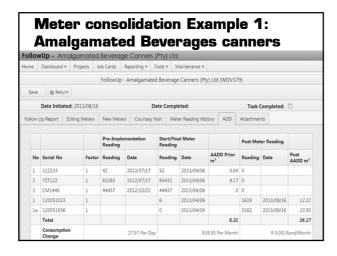


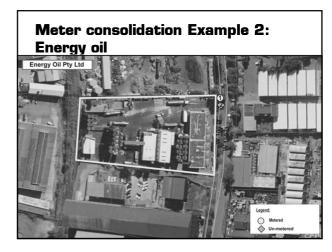


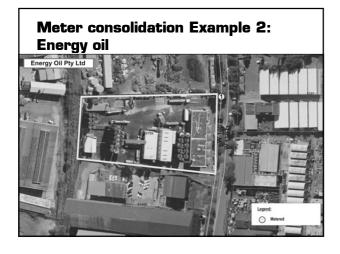


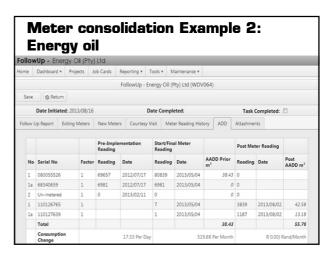


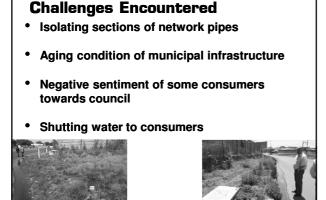


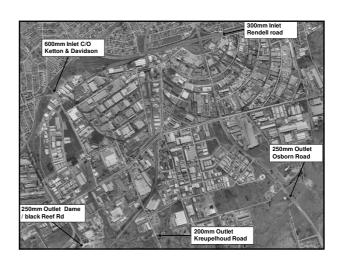


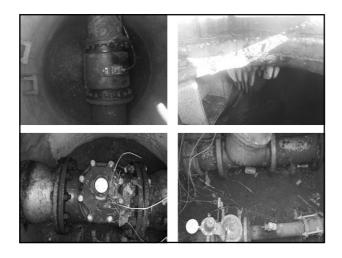




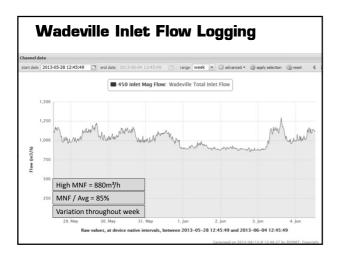


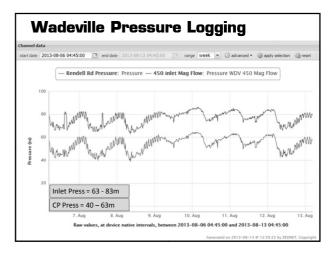


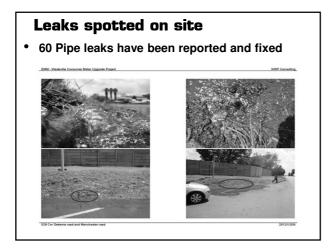






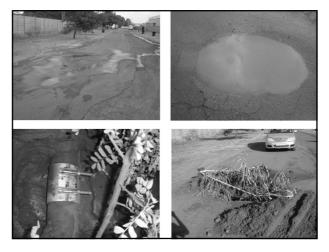




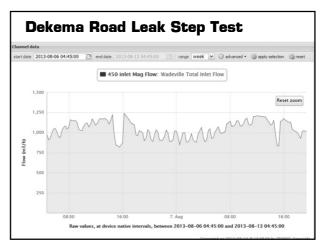






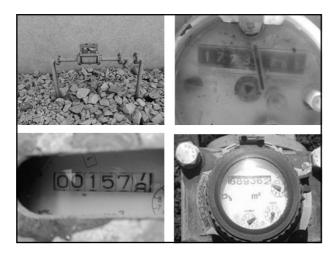


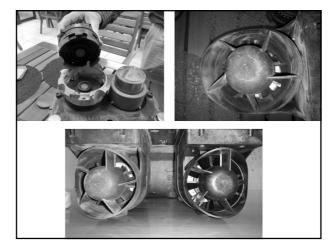












Project Benefits

- Improved Consumer meter infrastructure
- Reduction in commercial losses
- Reduction in Physical losses
- Better understanding of distribution network
- Consumers motivated to repair leaks and operate more efficiently
- Relationship between council and bulk consumers greatly improved

Key success factors

- Applying a comprehensive work methodology
- Utilising an efficient and reliable database management system
- Continuous monitoring of the project area
- Continuous support from the municipality
- Capable and well qualified contractors
- Consultants with knowledge and relevant expertise

Conclusions

- The project is on-going expected completion date is june 2015
- EMM plan to extend the project to all industrial Areas
- Substantial savings have already being achieved and the project is expected to have a payback period of less that 12 months
- There is potential to implement this type of project in most metros and municipalities

- Thank You -