

Water and Sanitation in the News

Johannesburg to save millions from water project

The City of Johannesburg has saved R700 million thanks to the first phase of its Water Infrastructure Upgrade and Renewal Project. The project, which costs R1.7 billion, commenced in Soweto in 2004 with the objective to tackle massive physical losses from pipe leakages and pipe bursts and commercial losses from deemed consumption at a flat rate to prepaid metering through fixing and repairing internal plumbing and pipe replacement. Before the implementation of Phase 1 in Soweto, more than 40% of the water supplied to Soweto was lost through physical (i.e. pipe leakages) and commercial losses (i.e. cost recovery). As a result of the intervention, the average water consumption dropped from 66 kilolitres per household per month to 12, an improvement of more than 80%.

Prior to the project, Johannesburg Water purchased 469 billion litres per annum from Rand Water for the entire City, of which 129 billion litres (27.5%) per annum were supplied to Soweto. According to Johannesburg Water (JW) Managing Director, Lungile Dhlamini, JW expects to save about R222 million per annum (equivalent to 40.5 billion litres per annum) from bulk purchases when Phase 1 of the project nears completion in December 2015. He says R1.1 billion of the R1.7 billion has been invested since 2004.

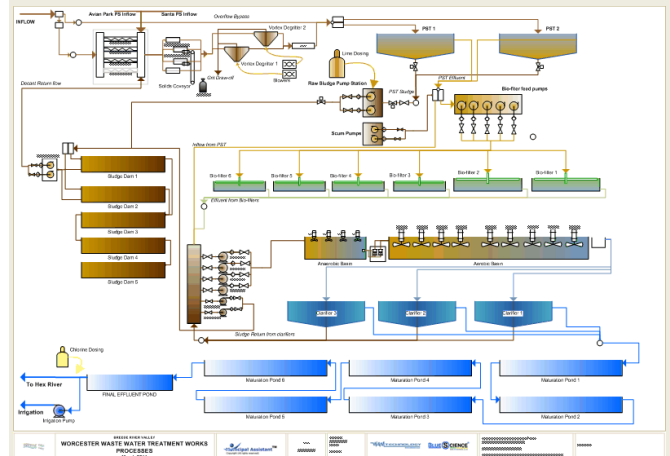
Dhlamini says the project will be extended to other deemed consumption areas (unmetered areas billed on a flat rate) including Orange Farm and Ivory Park. The main objective is to change the behaviour of water consumers to conserve water and pay for the water consumed through prepaid metering." The Water Reconciliation Strategy Study conducted by the Directorate: National Water Resource Planning of the Department of Water and Sanitation forecast that water demand will outstrip supply by 2020 if we do nothing to conserve water, Dhlamini says...

Source: Infrastructurenews.com, 13 Jan. 2015

WAMTechnology has been providing water asset and operations management systems and associated services to municipalities for the past 9 years. We have a working system, The **Municipal Assistant™**, developed for local operating conditions. We train, coach, mentor and assist

with the ultimate objective of empowering the user to assume ownership of the system.

After visiting more than 200 water and waste water works we found that very few works had **Process Flow and Layout Drawings** available. Such drawings are vital in assisting with effective water and waste water treatment plant management by providing a clear understanding of the sequences, processes and paths of water flow. The drawings we provide our clients indicate a diagrammatic display of the processes and the inter connections between the components of the facility, which are critical for process management, as well as overall water management strategies.



In addition, we also provide **Water Cycle Diagrams** to improve the knowledge and understanding of water and wastewater networks and services provided to communities. In the era where water conservation and demand management is becoming compulsory to ensure the management of supply risks, the water cycle diagrams can be used to communicate and improve the knowledge of users of the complexity and infrastructural requirements of the water and sanitation services. All the process, layout and water cycle diagrams can be printed on A1 and A0 format and be used and displayed at the treatment facilities. The Water Cycle Diagrams can be printed in Z-fold format and distributed with municipal accounts to users.

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