



**International
Water Association**

Project innovation awards

**2008 PIA Global
GRAND WINNER**

Operations/Management

Presented to

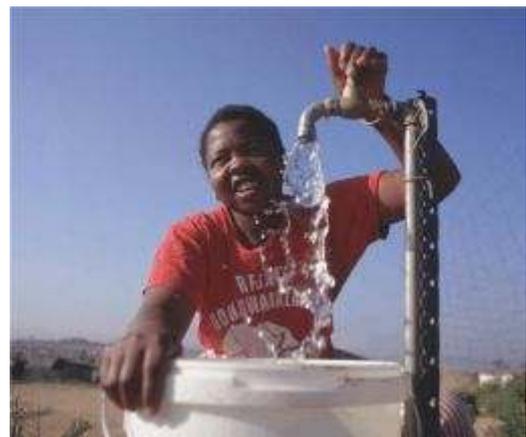
DWAF, IMESA and Emanti Management

Presented for

Towards Efficient Municipal Water Quality Management in South Africa

South Africa, like many developing countries, faces significant challenges in the sustainable provision of adequate and safe water services. Despite considerable success in addressing water services backlogs throughout South Africa, many municipalities continue to have inadequate water treatment and associated water quality management practises in place; both as effects the provision of safe drinking water and the controlled discharge to environment of treated effluent.

In order to assist in the attainment of the national goal of the provision of safe drinking water across South Africa, in April 2006 the national Department of Water Affairs and Forestry (DWAF) initiated a challenging two year pioneering project for the national deployment of an electronic Water Quality Management System (eWQMS) to all 166 municipal Water Services Authorities (WSAs) in South Africa. The roll-out team consisted of DWAF, the Institution of Municipal Engineering of Southern Africa (IMESA), and water engineering consultants ((including Emanti Management who developed the tool). eWQMS has been established and is in use at all 166 WSAs with some 90% of WSAs submitting drinking water data on a timeous and ongoing basis. The use of eWQMS has contributed significantly to an improved level of awareness of drinking water quality matters, a growing improvement in effective drinking water quality management (DWQM), and a direct improvement in drinking water quality provision across South Africa.



2 Roll of Entrants

2.1 DWAF

DWAF is the water services sector leader and the national regulator. In this project DWAF has been the both the Project Sponsor and a key contributor.

2.2 IMESA

IMESA, a voluntary professional association with specialist expertise in the municipal engineering sector, has been proactively partnering with DWAF regarding municipal WQM since 2004. The specific roll of IMESA in this project has been as an impartial honest broker ensuring that the eWQMS solution is appropriate and suppo rtive of Municipal Engineering requirements.

2.3 Emanti Management

Emanti Management (Pty) Ltd is a Water Engineering consultancy specializing in local government later treatment and quality management practices. The specific roll of Emanti Management in this project has been (i) Operation, Maintenance, and Development of eWQMS, (ii), Project Management of eWQMS deployment, and (iii) Establishment of IT and data flow linkages between eWQMS and DWAF.