



The development of a computer-based model for the analysis of the Walvis Bay water reticulation network. The model provided a tool to be utilised by the technical personnel to ensure that all customers receive adequate water supply at the desired pressure on a sustainable basis. The model will further be utilised as a means for the successful planning of future developments and expansions. Tasks included:

- Compiling a hydraulic model of the existing municipal water reticulation network
- Simulate various scenarios of current and future demands
- Identify network restrictions and recommend short, medium and long term remedial and planning actions to improve network pressure and service delivery;
- Extend hydraulic model to master planning model for 2018 and 2030 IUSDF development scenarios
- Reporting and presenting results

09/2012 the contract was expanded to include additional services: analyses and modelling of the water reticulation network of Walvis Bay, recommending the optimum attributes and location of a new storage reservoir and the design and contract supervision thereof.

03/2014 the contract was expanded to include additional services: expansion of bulk water model to include 2030 planned extensions

# WALVIS BAY WATER NETWORK MODELLING

## PROJECT STATS

<b>Value</b>	NAD 1.19 million (manifold) USD 0.73 million (ROE 16.24)
<b>Location</b>	Walvis Bay, Namibia
<b>Client</b>	Municipality of Walvis Bay
<b>Start</b>	10/2011 (original appointment) 09/2012 (expansion of contract) 03/2014 (expansion of contract)
<b>Finish</b>	06/2015



## SERVICES

- Investigation
- Simulations
- Master planning
- Reporting
- Project management
- Preliminary & details design
- Tender documents, process & evaluation
- Site supervision
- Contract administration

Project Management

Civil