



ORANJEMUND WATER ASSESSMENT

Demand, Distribution & Consumption (Phase 1)

PROJECT STATS

Value	N/A - Study
Location	Oranjemund, Namibia
Client	Namdeb Diamond Corporation (Pty) Ltd
Start	03/2019
Finish	03/2020



SERVICES

- Investigation
- Reporting
- Project management
- Simulations
- Hydraulic Modelling (Wadiso)
- Infrastructure Condition Assessment

Phase 1 - Water Demand, Distribution & Consumption Assessment

A detailed water balance for Oranjemund based on the International Water Association standard water balance. Completed a water base tariff rate calculation based on the capital and operational expenditure and other associated costs to operate the water supply scheme.

Consumer level water demand logging.

Assessed the data collected for the water balance as well as the key indicators calculated from the data to identify root causes for discrepancies in the water balance, and compile results, conclusions and recommendations for next actions to be taken in Phase 2 into a report.

Additional work (Phase 1):

A desktop study to determine the typical sector benchmarks for water, power and gas demands/consumption for residential properties similar (in terms of property size, income groups and/ or main industry of town) to that of Oranjemund. Compare benchmark figures with that of Oranjemund. Compile a one to two page report of results referencing all relevant literature reviewed and/or references of comparative data.

Recommended Phase 2 (Pending Appointment) - Detailed Investigations & Sustainable Mitigation Strategy

Phase 2A: Emergency condition assessment and intervention measures to ensure immediate supply redundancy.

Phase 2B: Data acquisition and processing.

Phase 2C: Calibration of water balance and base tariff rate calculation (from phase 1).

Phase 2D: Strategic Asset Management Plan (SAMP)

Project Management

Civil

Mechanical

Electrical