

## LOWER THUKELA BULK WATER SUPPLY SCHEME

Strategy Steering Committee – Meeting 3, 27 September 2011  
Implementation and Maintenance of the Water Reconciliation Strategy for the  
KZN Metropolitan Areas



### Progress to date

- Detailed Feasibility Study completed in June 2011. Awaiting final reports
- Meeting held on 17 June 2011 between DWA, CoGTA, Ilembe DM, and UW:
  - DWA / CoGTA committed to funding 40% of the capital cost of the scheme
  - Ilembe DM committed to purchase bulk potable water from scheme
  - UW committed to 'fast-track' the implementation of Phase 1 of the scheme to meet specific Ilembe DM milestones
  - To meet its commitment UW also needs to complete the Hazelmere Upgrades and Augmentations timeously

### Progress to date

- Environmental Impact Assessment report to be submitted to the authorities within the next few months
- Professional Service Provider for design and site supervision was appointed July 2011
- Design of Phase 1 commenced in August 2011
- Exploring mechanisms to expedite the appointment of Contractors

### Final Configuration

#### Phase 1

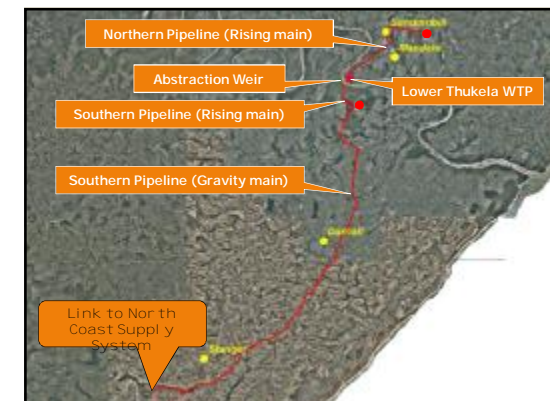
- ┆ Weir and abstraction works sized for 120MI/day. Equipped with raw water pumps for 60MI/day
- ┆ Desilting canals built for 60MI/day
- ┆ WTP designed for 110MI/day output but built for 55MI/day
- ┆ Pump station built for 110MI/day but equipped for 55MI/day
- ┆ Southern Rising Main Pipeline (can convey 110MI/day)
- ┆ Southern Reservoir (sized for 55MI/day, upgradeable)
- ┆ Southern Gravity Main 900mm dia. (can convey 110MI/day)



### Final Configuration

#### Further Phase Options

- ┆ Upgrade raw water pumps to 120MI/day
- ┆ Upgrade desilting canals to 120MI/day
- ┆ Upgrade WTP to 110MI/day output
- ┆ Install DAF units (if required)
- ┆ Construct desilting dam (if required)
- ┆ Upgrade pump station to 110MI/day
- ┆ Upgrade Southern Reservoir to 110MI/day
- ┆ Northern Rising Main Pipeline (55MI/day or 110MI/day)
- ┆ Northern Reservoir (55MI/day or 110MI/day)





### Way forward

- Need to obtain Environmental Authorisation before the construction phase can commence
- Need to obtain all necessary DWA licences and approvals before construction and abstractions can commence
- All scheme components will move directly from detail design to construction
- Gravity pipeline (Mvoti Balancing Reservoir to Darnall) and Access Roads are prioritised for implementation
- Weir must be constructed over at least two dry seasons
- Target deadlines for final completion:
  - Gravity Pipeline (Mvoti Reservoir to Darnall) – November 2013
  - LTBWSS Phase 1 - December 2014