# Proposed Revision of Reconciliation Strategy

#### Maintenance (Continuation) of the Crocodile West River System Reconciliation Strategy

### 25 July 2012 4<sup>th</sup> Strategy Steering Committee



## **Reconciliation Strategy**

(September 2011 Strategy Steering Committee)

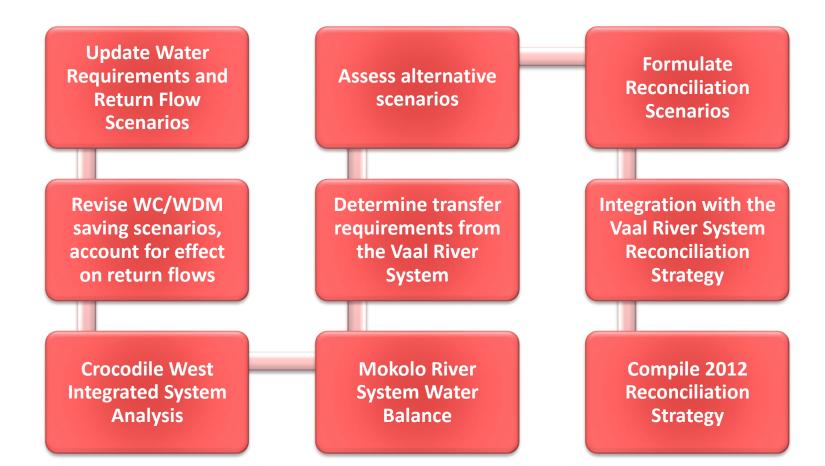
#### Rand Water service area

- Continued supply from the Vaal River
- Prioritise bulk abstraction options (surplus dependent)
- Areas north of the Magaliesberg
  - Increasing treated effluent from metropolitan area will be future source of water for mining and urban requirements north of the Magaliesberg

#### • Waterberg area (north of Crocodile West catchment)

- Optimal utilisation of local resources to be continued
- Transfer water to Lephalale area
- Augment Crocodile System from Vaal, if needed

## Water Balance & Strategy Update Process



## **2012 Reconciliation Perspective**

- Maintaining reliability of supply to users in system up to 2040.
- Surplus water available for transfer to Lephalale.
- 2012 Lephalale Base Scenario:
  - Augmentation required from 2022 to 2027.
  - Peak shortage 6 million m<sup>3</sup>/annum in 2025.
- 2012 Lephalale High Scenario:
  - Augmentation (intervention) required from 2021 to 2040.
  - Surplus fully utilised until 2040.
  - Peak shortage 16 million m<sup>3</sup>/annum in 2025.
- Re-use to replace Rand Water supply only possible when surplus water is available.

# Key factors influencing future water balance

- Urban water requirements and return flow growth.
- Growth in water requirements of mining and related industries (platinum and coal).
- Power generation developments.
- Success of Water Conservation and Water Demand Management Measures.
- Classification of water resources and ecological monitoring.

## July 2012 Reconciliation Strategy (1 of 2)

- Rand Water (RW) service area
  - Continued supply from the Vaal River
  - Additional re-use only when surplus is available

### • Areas north of the Magaliesberg outside RW

- Increasing treated effluent from metropolitan area will be future source of water for mining and urban requirements north of the Magaliesberg (outside Rand Water supply area).
- Waterberg area (north of Crocodile West catchment)
  - Optimal utilisation of local resources to be continued
  - Transfer water to Lephalale from the Crocodile

## July 2012 Reconciliation Strategy(2 of 2)

- Evaluate intervention to supply short-duration shortfall:
  - Demand side management and/or,
  - Augmentation by transferring treated wastewater from Vaal to Crocodile
- Utilise available groundwater in all areas and consider conjunctive use with surface resources.

### Recommendations

- Mining sector to provide annual updates of water requirement projections.
- Continuous coordination of planning between bulk water service providers.
- Annual monitoring of water requirements and return flows and review water balance – consider revising long term projections.
- Undertake Annual Operating Analyses and engage water users through System Operating Forum.
- Complete validation and verification of existing lawful use and review water balance.

# Thank you





• Prepare meeting documentation:

– Minutes, Status Report, Media Release

- Finalise WRPM analyses and report.
- Document Reconciliation Strategy.
- Continuation of Reconciliation Strategy Review

   appoint supporting PSP.

### **Status Report**

- Presents current information on the Reconciliation Strategy.
- Describes the actions and organisational responsibilities to implement the strategy.
- Contains progress reports from organisations.
- Provide summarised progress to inform DWA management and top structures of representative organisations.