

MAINTENANCE OF THE VAAL RIVER RECONCILIATION STRATEGY

Reconciliation Scenarios Review

Presentation to Vaal River Strategy Steering Committee

*Venue: DWA Gauteng Regional Office
Seef Rademeyer - 18th of April 2012*

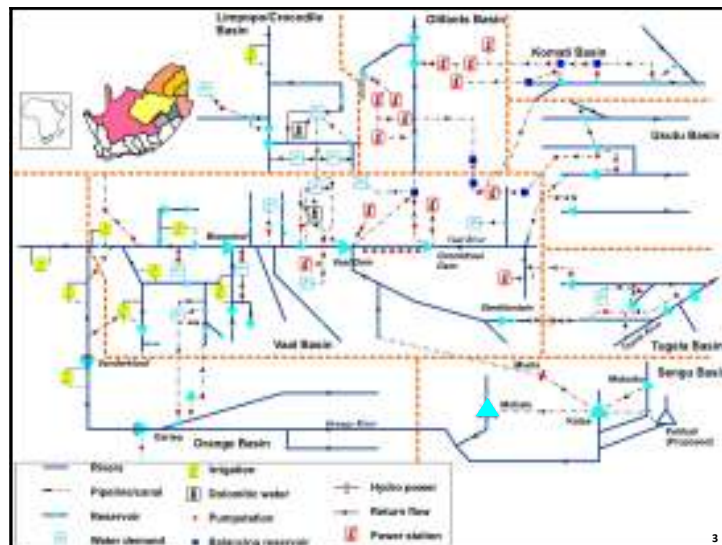


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Presentation Layout

- Introduction
- Strategy Interventions
- Target Reconciliation Scenario
- Crocodile (West) and Lephalale Scenario Update
- Risk analysis
- Information Under Review

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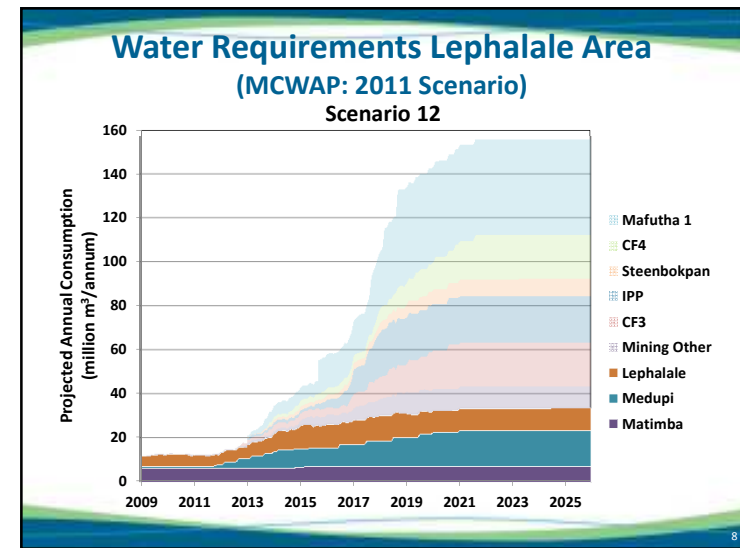
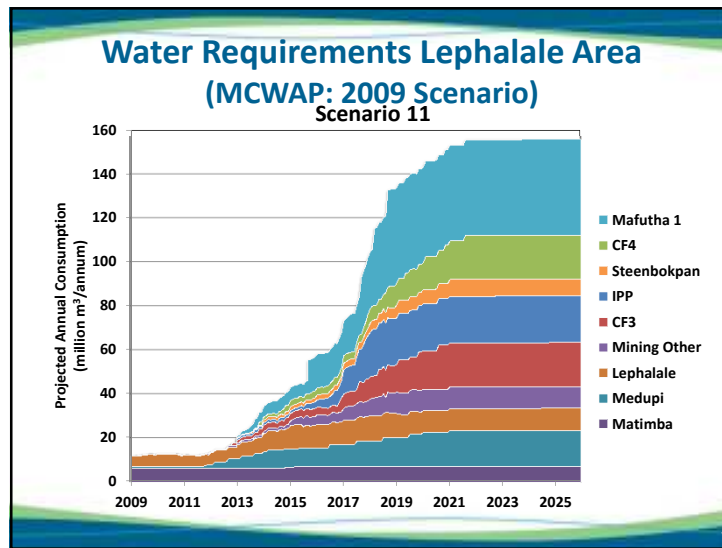
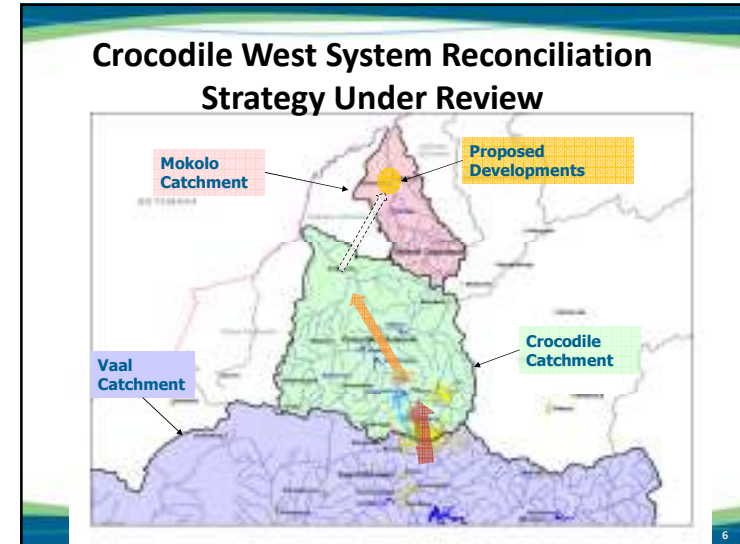
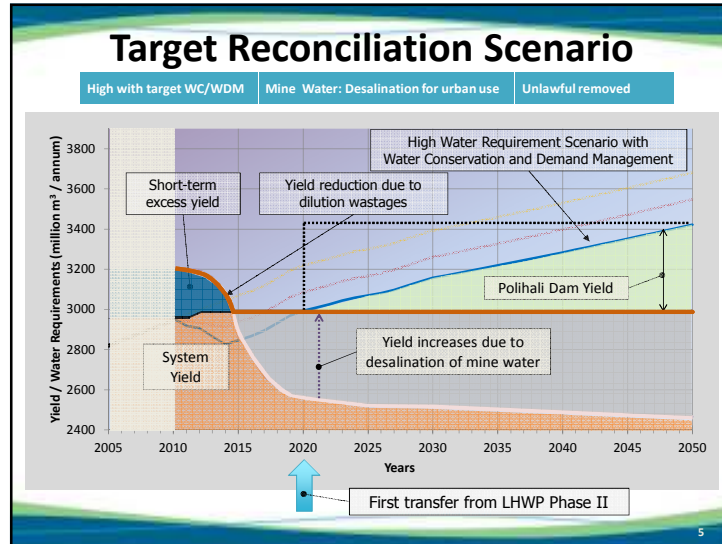


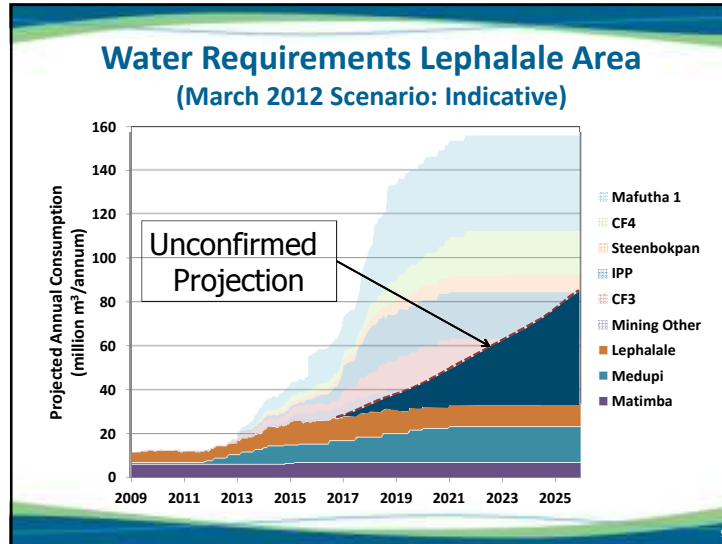
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Strategic Interventions

- Eradication of unlawful water use by 2013
- Implementation of WC/WDM (Project 15%) – achieve target savings by 2015
- Implementation of Phase 2 of LHWP by 2020
- Mine water effluent treatment and use by 2014
- Plan yield replacement scheme in Orange – 2034
- Manage uncertainties: Crocodile and Olifants

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Crocodile (West) System Water Balance

- Under review, using March 2012 unconfirmed Lephalale water requirement scenario - results by May 2012
- Transfer will be required from the Vaal in the form of treated waste water (volume to be calculated)
- Revised Vaal River System reconciliation balance will be updated accordingly – results at next SSC

Risk Analysis

- Evaluated scenarios of flushing releases from Vaal Dam for algae management in and downstream of Vaal Barrage
- Outcome: Releases of 26 million m³/annum is possible without effecting date when LWHP Phase 2 is required
- Risk analysis scenario results from 2012 Annual Operating Analysis (similar to earlier presentation for 2011 AOA)

Information Under Review

- Application of final results from verification study when available
- Commissioned Orange River Reconciliation Strategy Study
- Summary of water use- 2011/12 planning year
- Recommend revision of long term water requirement and return flow scenarios (apply Census 2011 data)

