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Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

## CONTINUATION OF WATER REQUIREMENTS AND AVAILABILITY RECONCILIATION STRATEGY FOR THE MBOMBELA MUNICIPAL AREA

(Crocodile Sabie River System Reconciliation Strategy)

### Strategy Steering Committee Meeting 1

Thursday, 31 May 2018

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### Item 3: Acceptance of Agenda

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### AGENDA

10:00	1. WELCOME AND INTRODUCTION OF MEMBERS	DWS Chair: CD
10:10	2. ATTENDANCE AND APOLOGIES	Chair
10:15	3. ACCEPTANCE OF AGENDA	Chair
10:20	4. PURPOSE OF THE MEETING	Chair
10:25	5. ROLE OF THE STRATEGY STEERING COMMITTEE (StraSC)	Chair
10:40	6. BACKGROUND AND INTRODUCTION OF THE STUDY <ul style="list-style-type: none"> <li>• Background</li> <li>• Objective of the study</li> <li>• Appointed PSP</li> </ul>	DWS
11:00	7. CURRENT STATUS OF STRATEGY INTERVENTIONS	Chair
11:05	7.1 IUCMA Validation and Verification Study	Dr. T Sawunyama
11:15	<b>Tea (15 minutes)</b>	
11:30	7.2 City of Mbombela WC/WDM	K Moabelo
11:40	7.3 Bushbuckridge LM WC/WDM	R Baloyi
11:50	7.4 Working for Water Removal of IAP's	B Mashabane
12:00	7.5 DWS Feasibility Study for Identified Dam Options	K Bester

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### AGENDA

12: 10	8. OVERVIEW OF STUDY ACTIVITIES	PSP
12:25	9. CURRENT PROGRESS	PSP
	9.1 Economic growth and Demographic Analysis	
	9.2 Water Requirements and Return Flows	
	9.3 Water Conservation and Water demand Management	
13:20	10. DISCUSSION AND COMMENTS	Chair
13:40	11. COMMUNICATION AND CONFIRMATION OF STRASC MEMBERSHIP	PSP
13:50	12. DATE OF NEXT MEETING	Chair
13:55	13. CLOSURE	Chair

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(Crocodile Sabie River System Reconciliation  
Strategy)

**Item 4: Purpose of the Meeting**

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**PURPOSE OF THE MEETING**

- Introduce the study to all stakeholders
- Establish and define the role of the Strategy Steering Committee (StraSC)
- Overview of study activities and water balance status
- Feedback on Strategy interventions
- Confirmation of StraSC Membership

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**Item 5: Role of the Strategy  
Steering Committee (StraSC)**

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**ROLE OF THE StraSC**

- Provide executive guidance to the direction and outcomes of the study
- Make available supplementary information and input from a local and regional perspective
- Facilitate strategic linkages with other initiatives
- Disseminate information from study into the relevant organisations
- Incorporate strategies' recommendations into development plans such as IDPs etc;
- Ensure the implementation of the Strategy recommendations.

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**Item 6: Background and Introduction of the Study**

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**WHAT IS A RECONCILIATION STRATEGY?**

- Plans of action or policy designed to ensure sufficient water is made available to towns over the next ±20 years.
- Uses existing information collected (building blocks) on:
  - Water requirements
  - Water use and infrastructure
  - Water resources
  - WC/WDM
- Develop scenarios to meet water requirements for current and future use, including optimisation of local resources, improved water services and water resource management.

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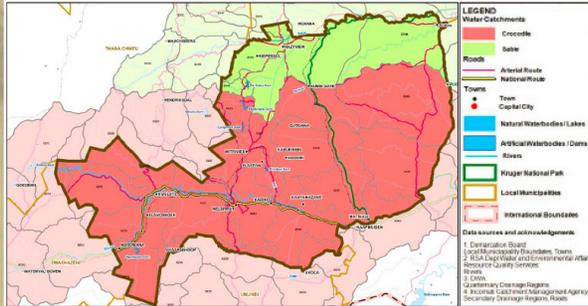
**WHAT IS A RECONCILIATION STRATEGY?**

- It aims to answer the following questions:
  - How much water is needed? - now and in the future
  - What water resources are available or can be made available?
  - Which interventions can be considered to achieve a balance between water needs and supply?
- Focuses on the projected annual water balance.
- Also considers the accuracy of all the components that make up the water balance.

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**BACKGROUND TO THIS ASSIGNMENT**

- Reconciliation Strategy for the Mbombela Municipal area was developed (2014)
- Recommends sequence of management and infrastructural interventions required to maintain acceptable assurances of supply to the users.



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### OUTCOMES OF PREVIOUS ASSIGNMENT

Options for reconciling increasing water requirements with the current supply in the Crocodile and Sabie Catchments included:

- Water Conservation and Demand Management (WC/WDM)
- Removal of Invasive Alien Plants (IAPs)
- Reallocation of water (pending DWS approval)
- System Operating Rules for Primkop Dam and other upstream dams (optimisation from a yield perspective)
- Groundwater development
- Rain and fog harvesting

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### OUTCOMES OF PREVIOUS ASSIGNMENT

- Regional Dam: 3 possible schemes were identified in the Crocodile River catchment:
  - Montrose Dam (eliminated – other options more economical)
  - Mountain View Dam (to be investigated further – feasibility study)
  - Strathmore off-channel storage dam (to be investigated further – feasibility study)

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### WHY CONTINUATION OF A STRATEGY? (THIS STUDY)

- Water balances need to be continuously monitored / investigated and the strategy regularly updated to remain technically relevant.
- Ensures that intervention planning can be implemented taking into account any changes that may impact on the projected water balance.
- **Study Objective:** In-depth review, systematically update and improve the water resource reconciliation strategy so that it remains **relevant, technically sound, economically viable, socially acceptable and sustainable** and thus **enabling the implementation of the strategy by the relevant authorities.**

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### APPOINTED PSP

- The Professional Service Provider (PSP) appointed to undertake the study : **Black Jills Engineers** in association with **iX Engineers** and **WRP Consulting Engineers** (Joint Venture).

DWS Enquiries	Technical Enquiries	
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**Item 7: Strategy Interventions**

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### 2014 Strategy Interventions Summary

Intervention	Responsibility
Addressing Unlawful Irrigation Use (Compliance Monitoring and Enforcement)	IUCMA/DWS
WC/WDM Urban	City of Mbombela/Sembcorp
WC/WDM in the Irrigation Sector and Trading of Water Savings	DWS HO
Water Trading (purchase of full water)	DWS HO
Removal of IAP's	Working for Water
Groundwater Development	City of Mbombela
Operationalisation of the Reserve	DWS HO DWS R, IBs, WUAs, CoM, BLM, KNP
Options Analysis of Identified Dams	DWS HO
Construction of New Dam	DWS HO & Implementing Agency
System Operating Rules for Sabie River	DWS HO & DWS R
Operating Rules for Primkop Dam	Irrigators and CoM

**7.1 IUCMA Validation and Verification Study**

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**Tea Break  
(15 Minutes)**

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**7.2 City of Mbombela WC/WDM**

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**7.3 Bushbuckridge LM WC/WDM**

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**7.4 Working for Water Removal of IAPs**

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**7.5 DWS Feasibility Study for Identified Dam Options**

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