



HIGH CONFIDENCE GROUNDWATER RESERVE DETERMINATION STUDY IN THE BERG CATCHMENT

PROJECT OVERVIEW — PROJECT STEERING COMMITTEE MEETING No. 3

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Date: 16 March 2023







Presentation Outline

- Brief background
- Study progress and milestones achieved
- Capacity building programme





Brief background

- 24-months project: February 2022 to February 2024
- The primary objective of this study is to determine a high confidence groundwater Reserve requirements (quantity and quality) to satisfy the basic human needs and to protect aquatic ecosystems for all priority water resources within the Berg catchment.



Study Progress and Milestones Achieved

DELIVERABLE	DUE DATE	
1. Inception Report	April 2022	
2.1 Gap Analysis Report	June 2022	
2.2 Inventory of Water Resource Models Report	June 2022	Finalized reports for the 2022/2023 Financial Year
3.1 Delineation of Water Resource Units Report	August 2022	
3.2 Ecological Reference Conditions Report	October 2022	
3.3 BHN and EWR Requirement Report	February 2023	
3.4 Operational Scenarios and its Socio-Economic and Ecological Consequences Report	May 2023	
3.5 Evaluate Scenarios with Stakeholder's Report	August 2023	
3.6 Monitoring Programme Report	November 2023	Planned deliverables for
3.7 Groundwater Reserve Determination Report	February 2024	2023/2024 Financial Year
3.8 Database of all information and data (incl. spatial)	February 2024	
3.9 Gazette and Implement Reserve	February 2024	

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Capacity Building Programme

Task	Description	Period
2.1	Gap Analysis and Water Resource Model Inventory: data collection, review, and analysis	June 2022
3.1	GRU delineation	August 2022
3.4	Water Resource Modelling: 1 week groundwater modelling.	23 – 27 January 2023
	<u>Day 1</u> - Field trip to Cape Flats Aquifer and Table Mountain Group Aquifer – all DWS staff	
	<u>Day 2</u> - Introduction to Groundwater Modelling and Data Collation – in person training	
	<u>Day 3</u> - Conceptualization and Groundwater Model Set Up – in person training	
	<u>Day 4</u> - Model set up and Model Calibration – in person training	
	<u>Day 5</u> - Scenario Analysis and Results – in person training	
3.8	Reserve Determination: Attend Final Reserve Determination stakeholder engagement workshop to observe how it is determined and update the reserve reporting based on stakeholder input	January 2024

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Contact details

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Study deliverables accessible at:

https://www.dws.gov.za/rdm/currentstudies/default.aspx



