

# PRESENTATION OUTLINE

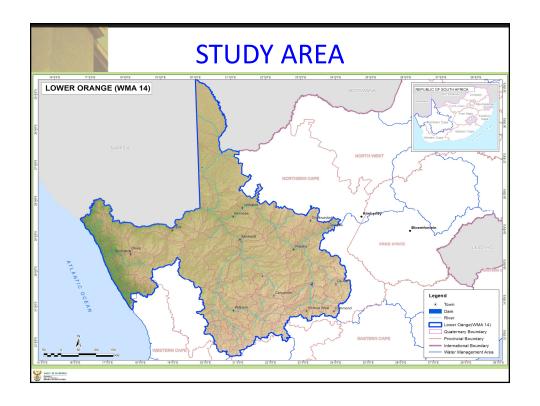
- 1. Background
- 2. Study area
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## **BACKGROUND**

- Chapter 3 of the National Water Act (Number 36 of 1998) provides for the protection of all water resources.
- Reserve determination for significant water resources is one of the mechanisms.
- The Reserve determination mechanism aims at ecological protection of water resources <u>and provision of Basic Human</u> <u>Needs (BHN)</u>

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## **OBJECTIVES OF THE STUDY**

- Determination of quantity and quality component of the groundwater component of the Reserve.
- Determination of quantity and quality component of the Reserve for rivers at various EWR sites.

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### **OBJECTIVES OF THE STUDY**

- Determination of quantity and quality component of the Reserve for priority wetlands, pans and lakes.
- Determination of quantity and quality component of the Reserve for estuarine freshwater requirements.

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### STUDY MOTIVATION

- Study was mainly driven by proposed hydraulic fracturing to be undertaken in the WMA.
- Dependence on groundwater by many users in the WMA.
- Various water use licence applications e.g. An influx of energy related applications.

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### **OVERVIEW OF DELIVERABLES**

- Inception Report (31 December 2015) √
- Resource Unit Report (31 March 2016) √
- Desktop EWR and groundwater use (30 June 2016)
- Wetland Eco classification Report (30 September 2016)
- Wetland EWR and Groundwater EWR Report (31 Dec 2016)

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### **OVERVIEW OF DELIVERABLES**

- Ecological and estuary consequences of scenarios Report (31 March 2017)
- Consequences of scenarios Report (30 June 2017)
- Ecospecs & Monitoring Report, Close
  Out and Main Report (14 October 2017)

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### **STUDY PERIOD**

- Project duration is 2 years
- The study was initiated on the 15<sup>th</sup>
  October 2015 and expected to be
  completed on the 14<sup>th</sup> October 2017
- Rivers for Africa eFlows Consulting was appointed to assist the DWS in undertaking the study

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#### PREVIOUS RESERVE RELATED STUDIES

- Reserve study is building on previous studies initiated by the Orange-Senqu River Commission (ORASECOM)
- Gaps not addressed by the previous studies will be dealt with
- For rivers the previous studies concentrated along the main Orange river stem at high confidence

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#### PREVIOUS RESERVE RELATED STUDIES

- Orange River estuary at Alexander Bay was also covered in the previous study. Other estuaries in the WMA were not dealt with.
- Only wetlands along the main Orange River were covered. The rest of the catchment will be covered in this study.
- Groundwater was not covered by previous studies.

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