water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Aquifer Susceptibility of South Africa

Background:
Implementation of the Reconstruction and Development Programme (RDP) in South Africa has highlighted the importance of groundwater resources in the country as the role they will play in satisfying the targets of the RDP. As a result, exploration, development and protection of aquifers is receiving unprecedented attention. Provision of the appropriate information to national water resource managers and planners is a critical part of the process which aims to provide a further twelve million people with adequate access to potable water.

Data Sources:
This map is based on the Borehole Prospects map provided by JR Vegter, Hydrogeological Consultant and AJ Seymour, DWA.

Description:
This map indicates the qualitative measure of the relative ease with which a groundwater body can be potentially contaminated by anthropogenic activities and includes both aquifer vulnerability and the relative importance of the aquifer in terms of its classification.

Susceptibility Matrix

	AQUIFER CLASSIFICATION			
VULNERABILITY		Poor	Minor	Major
	Least	Low 1	Low 2	Medium 3
	Moderate	Low 2	Medium 4	High 6
		Medium 3	High 6	High 9

LEGEND

Water Source

- Groundwater
- Combination (Ground and surface water)
- Surface water
- Province
- International boundary
- Dams
- Special aquifer regions

DURBAN Major Towns/Cities

Coordinate System: Clarke 1880 Albers Projection: Albers
(Standard Parallel 1: 19 Standard Parallel 2: 27 Central Meridian)
Datum: Clarke 1880

Original Map Compilation: Andiswa Matoti, Julian Conrad and Susan Jones, CSIR, 22 March 1999.

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Directorate: Hydrological Services
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