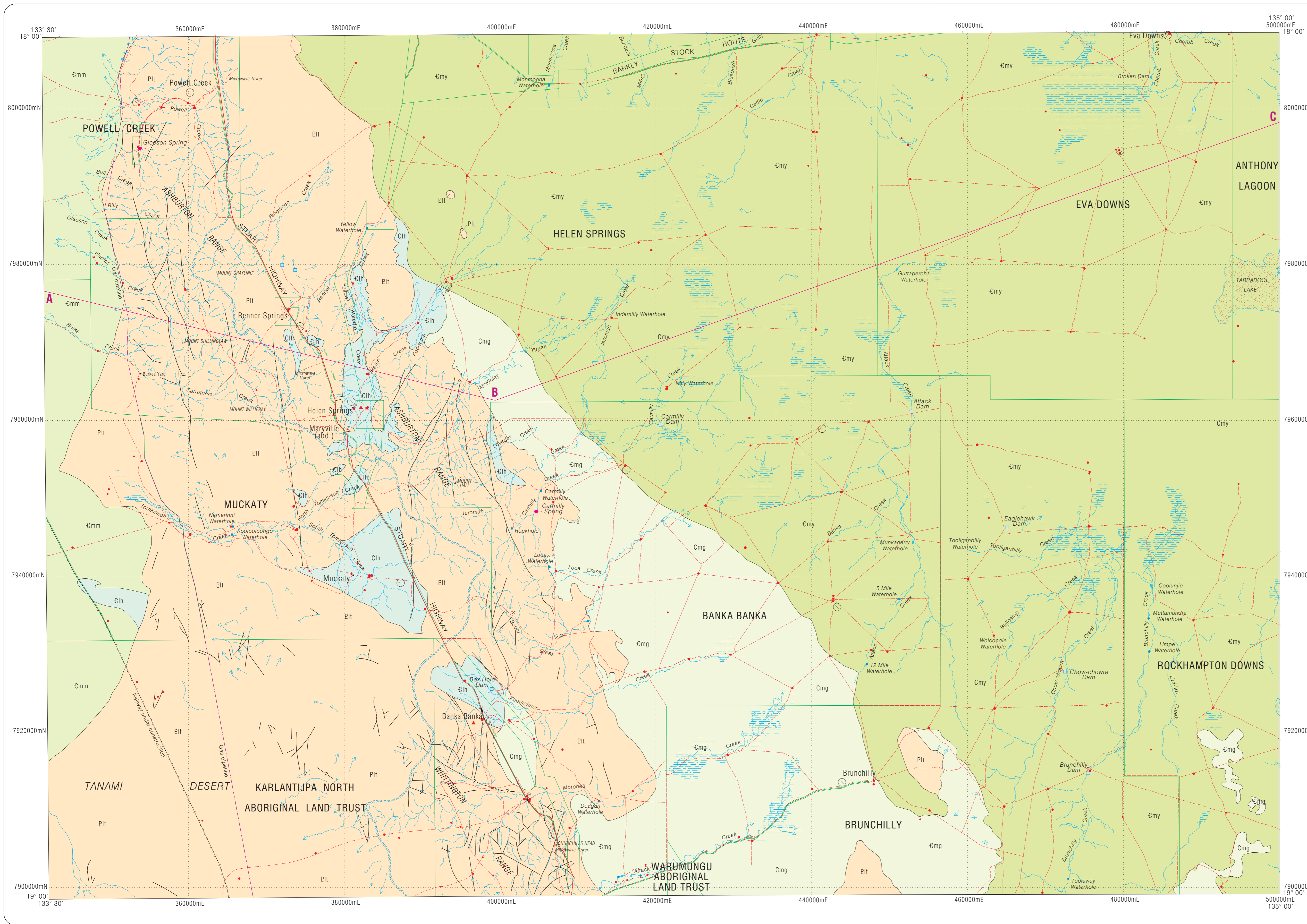


1 : 250 000 HYDROGEOLOGICAL MAP HELEN SPRINGS

kilometres 0 5 10 15 20 25 30 kilometres
 Black numbered lines are 10000 metre intervals of the Map Grid of Australia (MGA), Zone 53
 Universal Transverse Mercator Projection
 Horizontal datum: GDA 94 Vertical datum: AHD (metres)



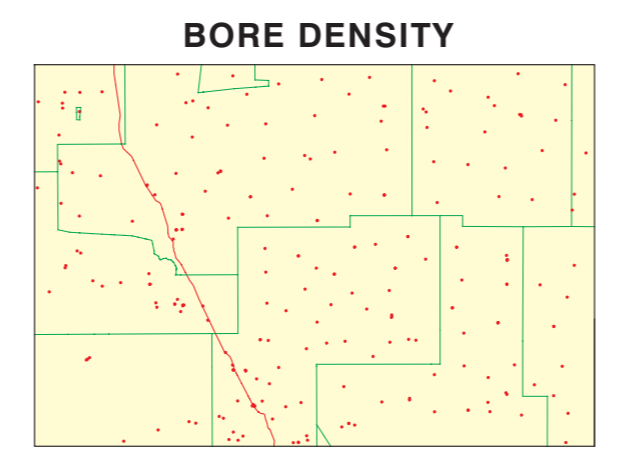
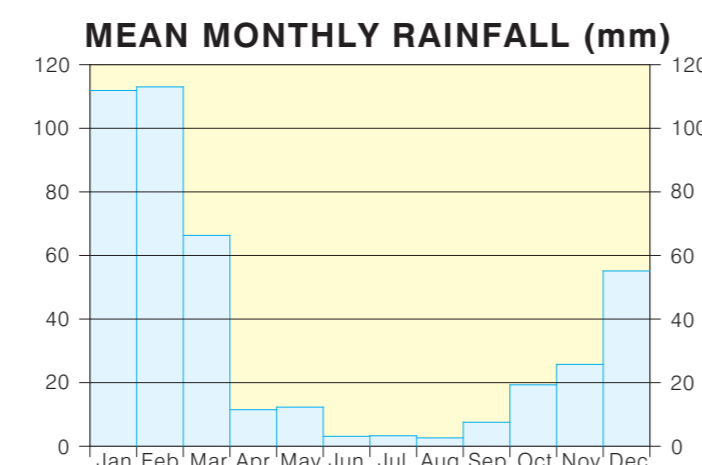
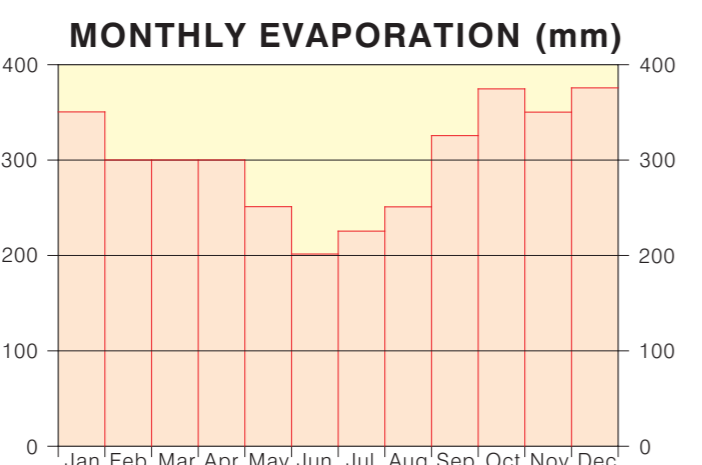
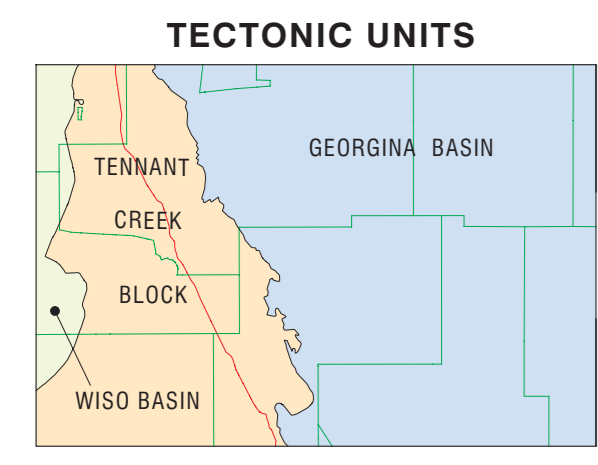
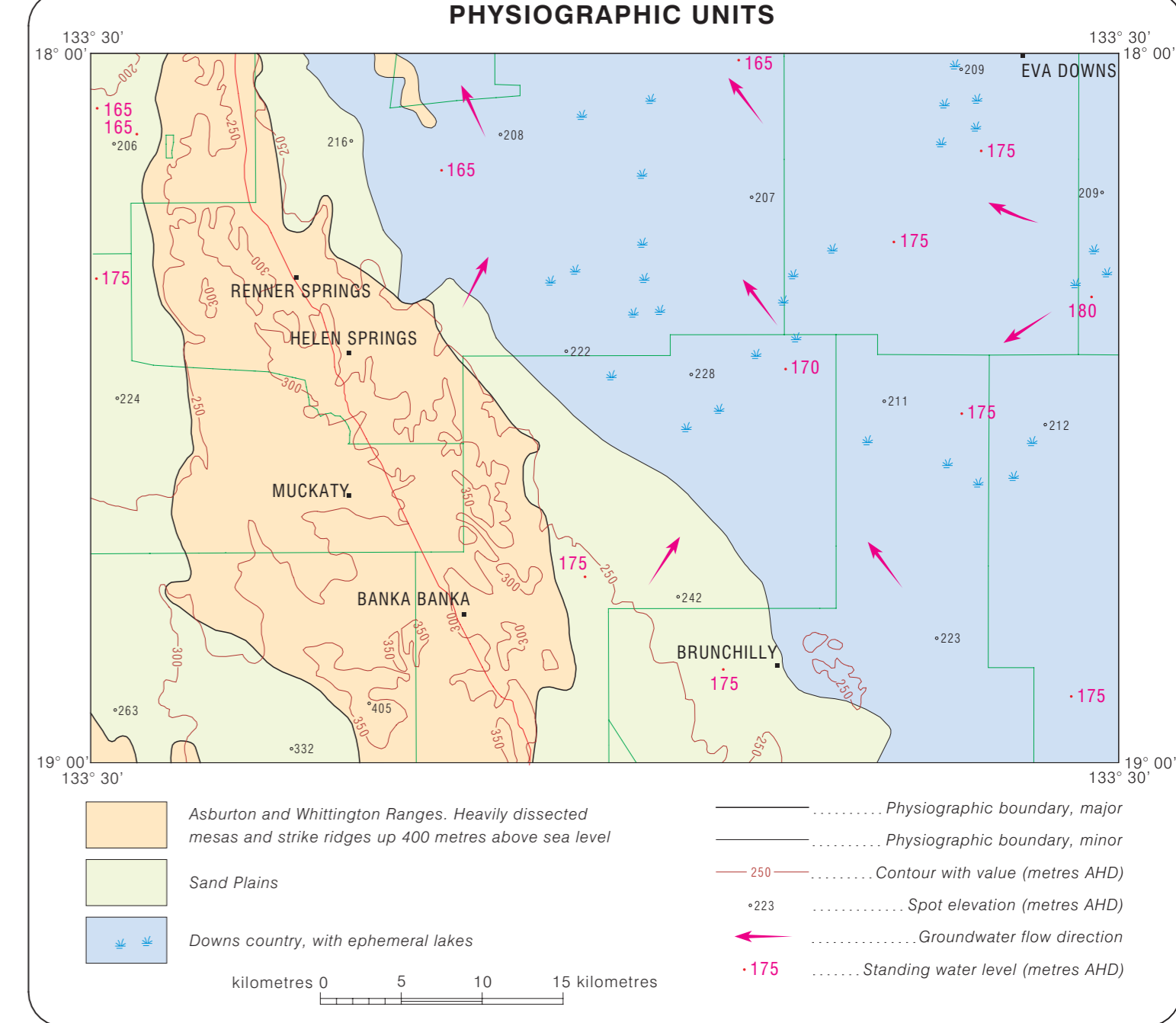
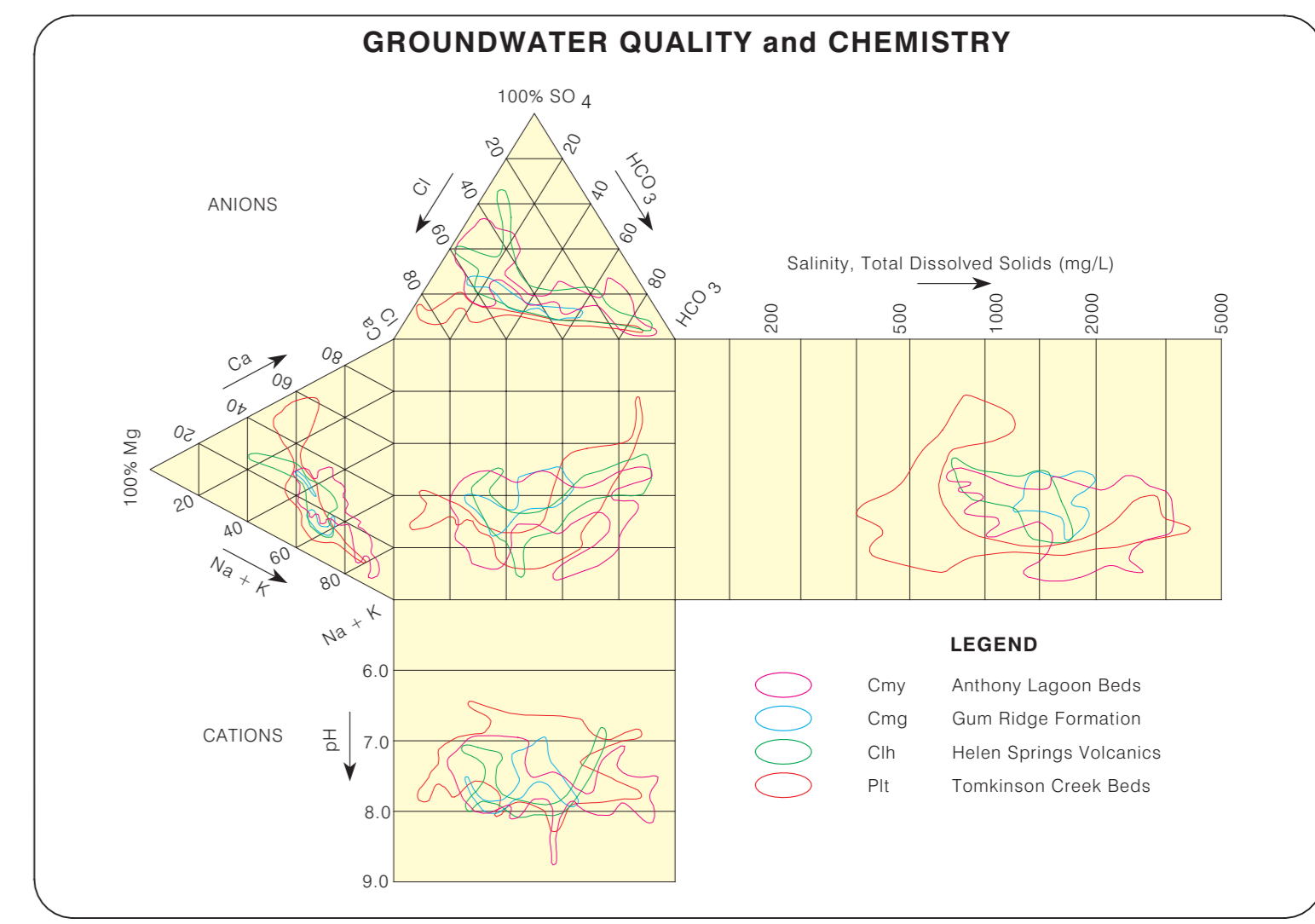
HYDROGEOLOGY

The yield figures shown for each unit are for bores with appropriate location and construction

Fractured & Karstic Rocks - Extensive Aquifers	Fractured Rocks - Local Aquifers	Fractured Weathered Rocks with Minor Groundwater Resources
Sandstone and dolomitic siltstone, dolomite, dolomitic limestone with chert nodules - yield 5.0 to 15.0 L/s	Basalt, basal sandstone and breccia - yield 0.5 to 5.0 L/s	Quartz sandstone with mud clasts, siltstone, some thin interbeds of fine grained carbonate rocks, chert, siliceous siltstone, minor conglomerate, dolomite, breccia, dolerite. - yield 0.05 to 0.5 L/s
Anthony Lagoon Beds (Cmy)	Helen Springs Volcanics (Clh)	Tomkinson Creek Beds (Elt)
Limestone, dolomite, siltstone - yield 5.0 to 15.0 L/s		
Fossiliferous siltstone and chert, silicified limestone, some sandstone and leached calcareous sandstone - yield 0.05 to 0.5 L/s		
Montejinni Limestone (Cmm)		
Gum Ridge Formation (Cmg)		

SYMBOLS

Surface Water Features	Groundwater Features	Geological Features	Artificial Features	Cadastral Features
Ephemeral watercourse	Spring	Geological boundary	Bore, yield >15.0 L/s	Main road, sealed, road bridge
Surface water catchment divide	Minor road	Fault	Bore, yield 5.0 to 15.0 L/s	Minor road
Water hole	Abandoned mine	Fault: inferred	Bore, yield 0.5 to 5.0 L/s	Vehicle track
Ephemeral pool		Line of cross-section	Bore, yield 0.05 to 0.5 L/s	Landing ground
Ephemeral lake			Stream gauging station	Building's
Land subject to inundation			Rainfall gauging station	Gas pipeline
Tank or small dam			Abandoned mine	Railway under construction



Hydrogeology by M. N. Verma, Project coordination by P. Jolly, Cartography by L. Fritz, Spatial Data and Mapping, using Microstation graphic applications.
 Design File: Helen-Sps_Hyd-Geol_m53
 Plot File: Helen-Springs_Hydrogeology

Minor revisions, corrections and updates to mapping have been made since the initial publication of this map (June 1992). This map takes account of data to August 2002.

Geology modified from base maps of the Bureau of Mineral Resources, 1969. Base map information from National Topographic map series Helen Springs Sheet SE 53-10.

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GDA This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

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