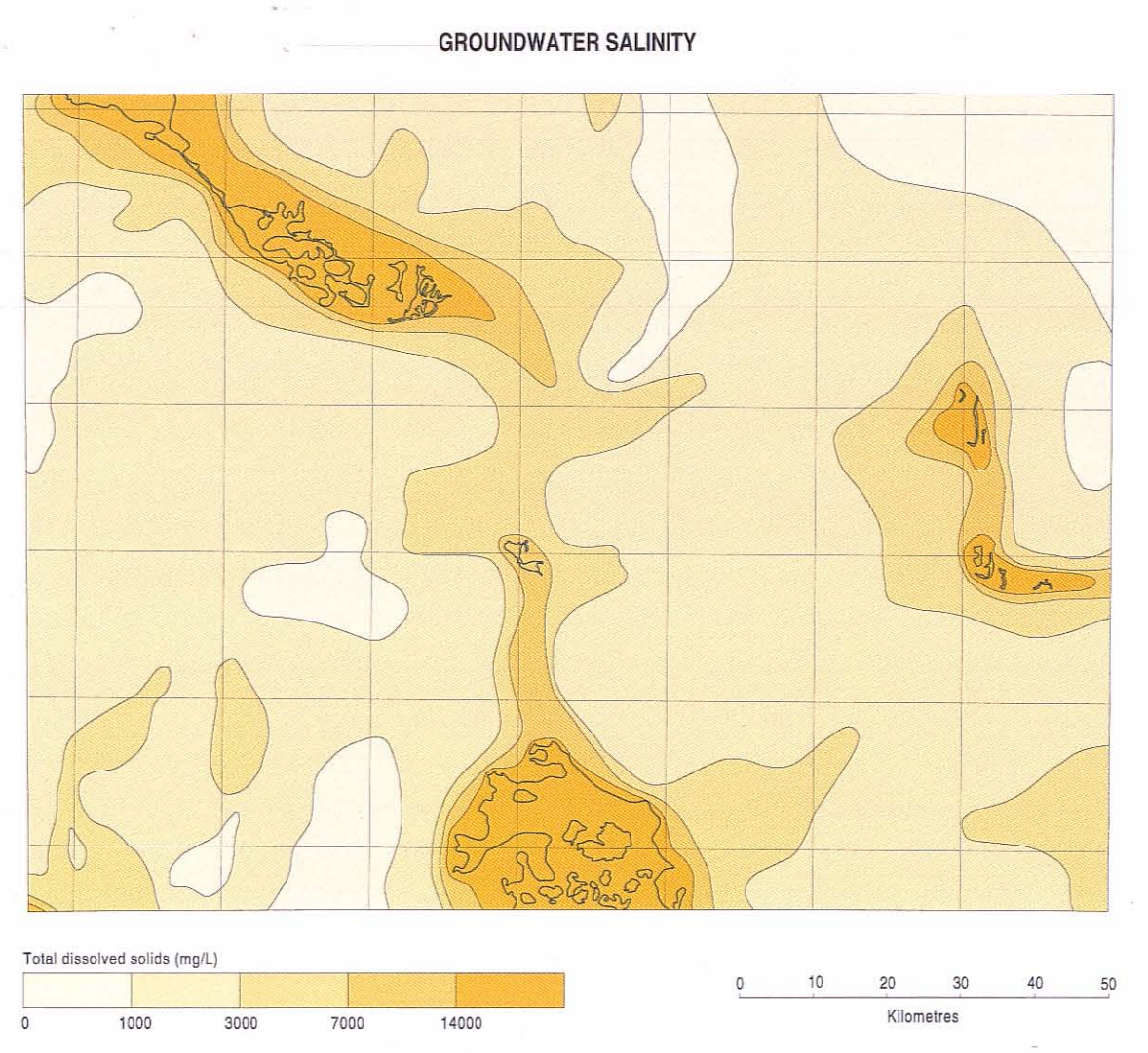


REFERENCE

- AQUIFER TYPES**
- Surficial deposits — local aquifer, minor groundwater resources
 - Sedimentary aquifer in paleochannels — major aquifer, major groundwater resources
 - Sedimentary aquifer in paleochannels — no groundwater resources (section only)
 - Fractured and deeply weathered rocks — local aquifer, minor groundwater resources, locally large supplies from fracture zones and permeable horizons in weathering profile

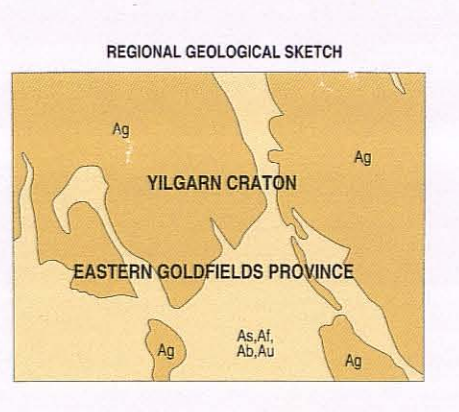
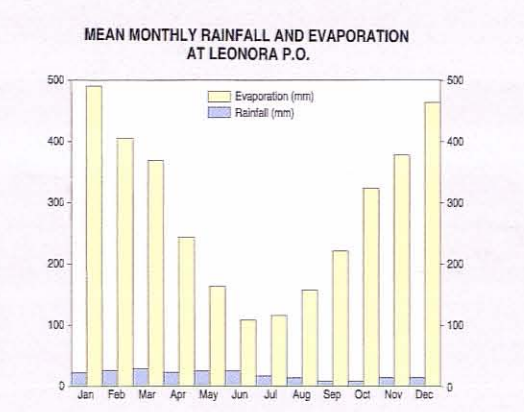
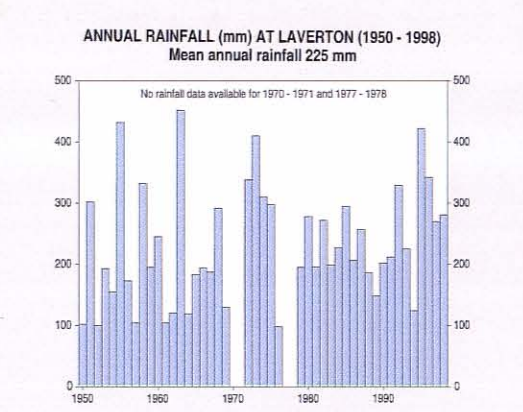
- HYDROGEOLOGY**
- QUATERNARY**
- Qs: Pleistocene sediments — mostly clay
 - Qa: Alluvium and colluvium — clay, silt and sand, minor gravel; conceals paleochannels
 - Qc: Calcrete — often with extensive karst development
- EARLY TERTIARY**
- Tp: Clay — minor sands; restricted to paleochannels (section only); equivalent to PERCOLLI (SH4)
 - Ts: Sand — restricted to paleochannels; concealed by calcareous sandstone; equivalent to WOLLUBAR SANDSTONE
- PHOTOTERTIARY**
- Fm: MT WELD CARBONATITE — concealed by alluvium (section only)
 - Ft: Mafic and ultramafic dykes; intruded
- ARCHAIC**
- Ag: Granitoid rock; outcrop (indicated by overprints); generally weathered to sandy clay
 - Ac: Chert and banded iron-formation
 - Mm: Metasedimentary rocks
 - Mv: Felsic volcanic and volcanoclastic rocks
 - Mf: Mafic rocks
 - Au: Ultramafic rocks and weathered equivalents

- SYMBOLS**
- GEOLOGY**
- hydrogeological boundary
 - inferred hydrogeological boundary
 - extent of weathering (section only)
 - soil or shear zone
- SURFACE WATER FEATURES**
- intermittent drainage
 - surface water divide
 - playa lake
 - rockhole, gnamptid hole, watercourse
 - spring, soak
 - dam, tank
 - water pipeline
- GROUNDWATER FEATURES**
- isopotential (in AHD)
 - direction of groundwater flow
 - water table (section only)
 - isohaline in paleochannel (TDS g/L)
 - salinity in paleochannel (TDS g/L)
- MINING INFORMATION**
- underground mine, open-cut
 - mining locality
 - mine name
- ARTIFICIAL FEATURES**
- production bore, yield >50 mld/day
 - abandoned bore, yield >50 mld/day
 - bore
 - well, shaft
 - area of detailed groundwater investigation
 - borefield (currently in use)
 - borefield (disused)
 - borefield name, cluster of bores
 - WVIC exploratory line
 - Marion alumina exploratory line
 - Granby Smith exploratory line
 - storage reservoir
 - groundwater pipeline, disused
 - mine dewatering
- TOPOCADASTRAL INFORMATION**
- sealed road
 - graded road
 - track
 - shovel, landing ground
 - Laverton
 - townsite, population less than 10 000
 - homestead

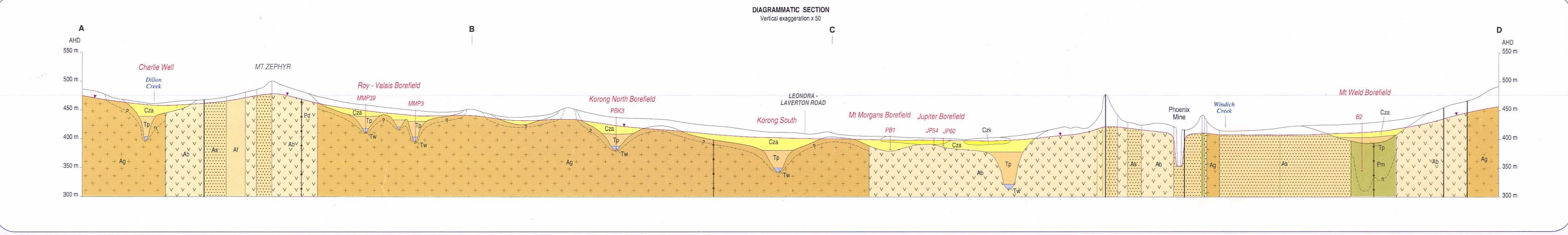


INDEX TO ADJOINING SHEETS

BRISBANE SH 51-13	DUKETON SH 51-14	ROBERT SH 51-15
LEONORA SH 51-1	LAVERTON SH 51-2	RASON SH 51-3
MENZIES SH 51-5	EDUNDRA SH 51-6	MINERAL SH 51-7



Hydrogeology by S.L. Johnson, 1999
Geology by C.F. Gower, 1976
Editorial by G. Chalmers
Topography by K. Posner, Water and Rivers Commission
Published by the Water and Rivers Commission
Copies available from the Water and Rivers Commission,
The Hyatt Centre, 3 Plain Street, East Perth, WA, 6004,
Phone (08) 9278 0500, Fax (08) 9278 0201
This map is also available in digital form.
The WVIC recommended reference for this map is: JOHNSON, S.L., 1999
Laverton, W.A. Sheet SH 51-2: Western Australia, Water and Rivers Commission,
1:250 000 Hydrogeological Series



GOVERNMENT OF WESTERN AUSTRALIA
MINISTER FOR WATER RESOURCES

WATER AND RIVERS COMMISSION
B. PAVINE
CHIEF EXECUTIVE OFFICER

SCALE 1 : 250 000

TRANSVERSE MERCATOR PROJECTION
Grid lines indicate 2000 metres interval of the Australian Map Grid Zone 51