GROUNDWATER RESOURCES MAP

LEGEND

FRACTURED AND WEATHERED ROCKS - LOCAL AQUIFERS
- yield 0.0 to 0.5 L/s

Fresh water but may be brackish beneath the Keep River Plain
Saline water

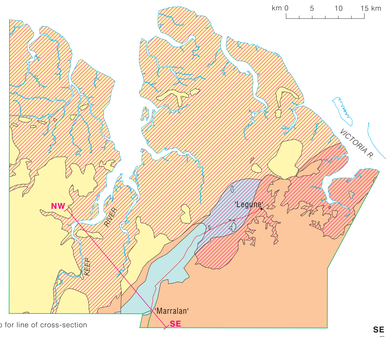
FRACTURED and WEATHERED ROCKS - LOCAL AQUIFERS - INCLUDES SANDSTONE and CAVERNOUS LIMESTONE
- yield 0.5 to 5 L/s

Fresh water
Saline water

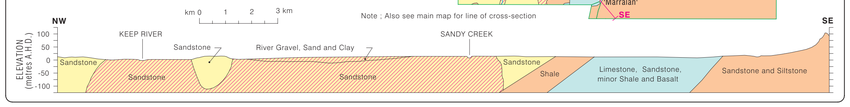
POROUS AND FRACTURED ROCKS - WIDESPREAD AQUIFERS - MAINLY SOFT SANDSTONE
- yield more than 5 L/s

Fresh water
Saline water

Geological Boundary
Line of cross-section



DIAGRAMMATIC SECTION NW-SE



Note : Also see main map for line of cross-section

SURFACE WATER RESOURCES MAP

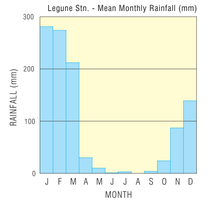
	DESCRIPTION
	Mostly flat alluvial plains with cracking clay soils. Surface runoff moderate to high. Surface water storage development is economically feasible where subsoil is suitable.
	Gently sloping alluvial plains with leached loamy and sandy soils. Surface runoff moderate. Surface water storage development is feasible where subsoil is suitable.
	Gently undulating country on sandstone with laterite and sandy soils. Surface runoff moderate to low. Surface water storage development would depend on the subsoil strata and may not be economically feasible.
	Estuarine alluvial plains with saline soils, and mud. Surface water development is not recommended.
	Hilly country with ridges, rock outcrop and skeletal soils. Surface water runoff high. Surface water storage development is not recommended. However at the base of escarpments and hills, development of hillside storage may be feasible.

LEGEND

- Development boundary
- Development option number
- Abandoned bore
- Capped or investigation bore
- Equipped bore
- RN 28344 STEELE'S BORE — Registered number of bore
- Name of bore
- Excavated tank
- On-stream dam
- Turkey nest dam
- RED ROCK TANK — Name of tank, dam or turkey nest
- Pipeline
- Ephemeral watercourse
- Waterhole/billabong
- Ephemeral waterhole/billabong
- Major road
- Track
- Building/s
- Landing ground
- Fence
- +45 — Spot elevation - m A.H.D.
- Cadastral boundary
- State boundary

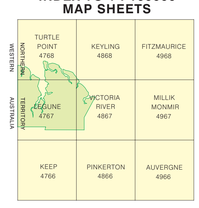
RAINFALL

Legune Stn. - Mean Monthly Rainfall (mm)



MAP LOCALITY

INDEX TO 1 : 100000 MAP SHEETS



WATER RESOURCES DEVELOPMENT OPTIONS

	PREFERRED OPTION	DESCRIPTION
1	Piping from natural waterholes where present	Rocky ridge country with high runoff rates. Area economically and/or physically unsuitable for artificial water supply development, however at the base of the escarpments and hills, development of hill side storages may be feasible. Groundwater yields generally very low.
2	Unsuitable	Saline coastal plains, subject to tidal inundation.
3	Surface water storage or piping from waterholes or remote bores	Coastal and alluvial plains, black cracking clay soils. Moderate to high runoff. Groundwater generally too saline for use.
4	Surface water storage or piping from waterholes or remote bores	Alluvial outwash plain, minor laterite plain. Moderate runoff, variable soil types. Surface water development may be possible where soil and subsoil conditions are favourable.
5	Groundwater	Gently undulating country underlain by soft, water bearing sandstone. High probability of obtaining more than 5.0 L/s of fresh groundwater in most areas.
6	Surface water or groundwater	Alluvial outwash plain, minor laterite plain. Variable soil types. Moderate runoff. 60% probability of obtaining ground-water supplies of between 0.5 and 5.0 L/s at selected sites in limestone and sandstone. Local soil types will determine suitability for surface water development.
7	Surface water or groundwater	Alluvial plains on the Keep River, black cracking clay soils. moderate to high runoff. Groundwater brackish to fresh, but generally suitable for stock. High probability of obtaining more than 5.0 L/s in most areas. Local soil conditions will determine suitability for surface water development.

WATER RESOURCES DEVELOPMENT MAP OF LEGUNE STATION and N.T. PORTION 3046

A program of the Natural Heritage Trust

Northern Territory Government
Department of Infrastructure, Planning and Environment

kilometres 0 2 4 6 8 10 kilometres

Black numbered lines are 10000 metre intervals of the Map Grid of Australia (MGA), Zone 52
Universal Transverse Mercator Projection
Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

GDA

Geology modified from maps of the Northern Territory Geological Survey, Department of Business, Industry and Resource Development, Northern Territory, and the Australian Geological Survey Organisation, Canberra, Australian Capital Territory.

This map was first published in 1994 when the organisation was known as the Water Resources Division of the Power and Water Authority of the Northern Territory. The Water Resources Division has since transferred to the Department of Infrastructure, Planning and Environment and is now known as the Conservation and Natural Resources Group. Minor revisions, corrections and updates to mapping have been made since the initial publication of this map.

Map compiled by S. Tickell and L. R. Rajaratnam,
Project coordination by P. Jolly,
Cartography by L. Fritz, Spatial Data and Mapping, using Microstation graphic applications,
Design File: Legune-Stn_Wrs_52m
Plot File: Legune-Stn_Water-Resources

Published and available from;
Conservation and Natural Resources Group,
Department of Infrastructure, Planning and Environment,
Goyder Centre, Chung Wah Terrace, Palmerston,
Northern Territory of Australia, April 2003.

For further information contact:
Manager, Water Resources, Natural Systems Division,
Conservation and Natural Resources Group,
Department of Infrastructure, Planning and Environment.
Ph. (08) 8999 3606, Fax. (08) 8999 3666
Goyder Centre, Chung Wah Terrace, Palmerston,
Northern Territory of Australia.