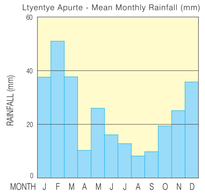
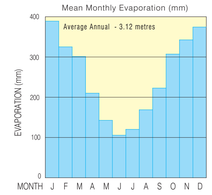
RAINFALL
Ltyentye Apurte - Mean Monthly Rainfall (mm)



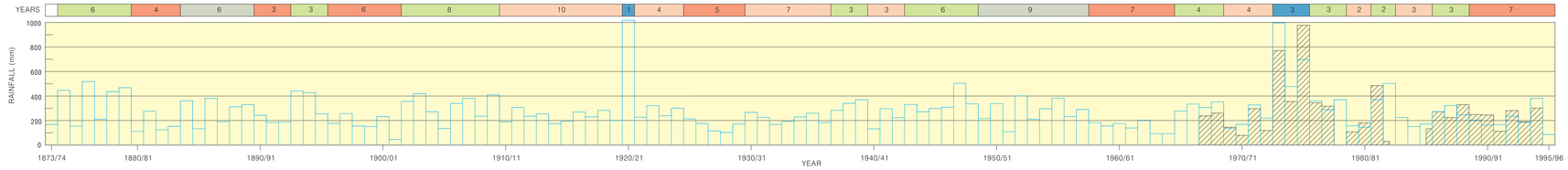
EVAPORATION
Mean Monthly Evaporation (mm)



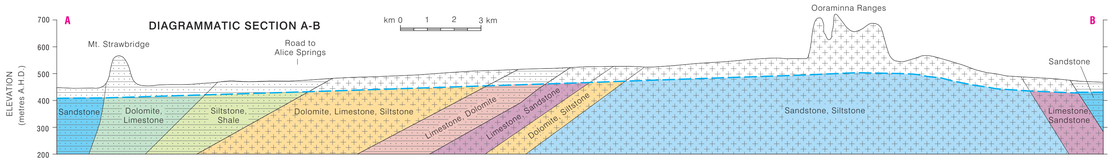
LEGEND

- drought
- dry
- average
- good
- wet
- Alice Springs rainfall
- Ltyentye Apurte rainfall

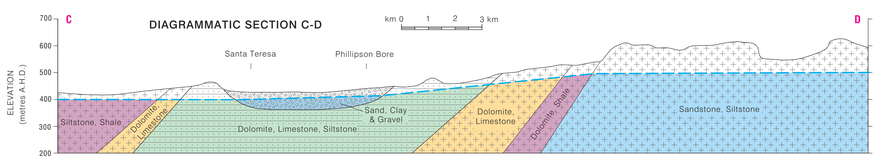
RAINFALL
Alice Springs - Total Annual Rainfall (mm)



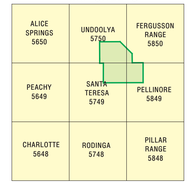
DIAGRAMMATIC SECTION A-B



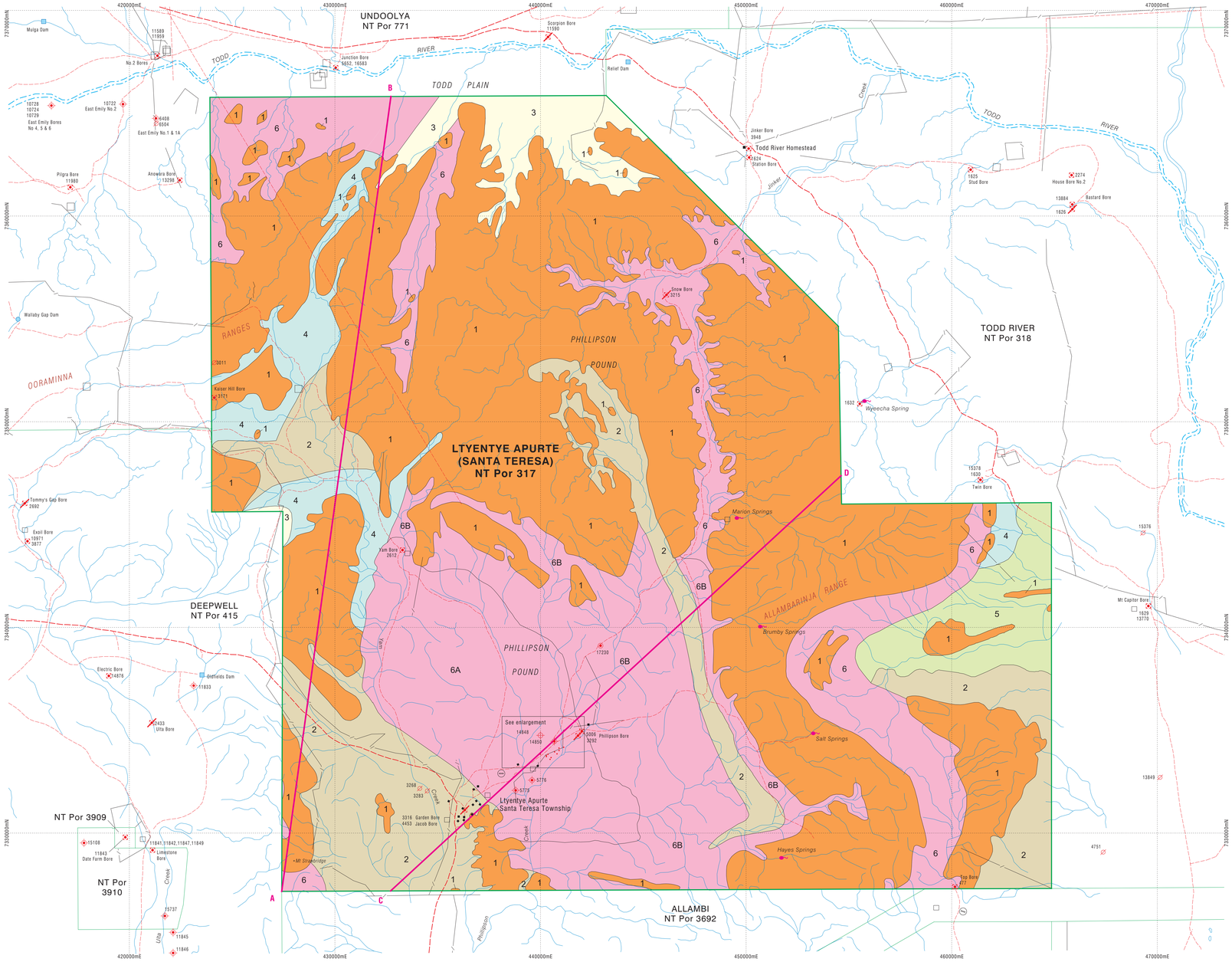
DIAGRAMMATIC SECTION C-D



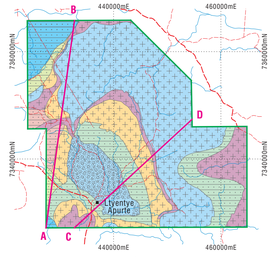
INDEX TO 1 : 100 000 MAP SHEETS



MAP LOCALITY

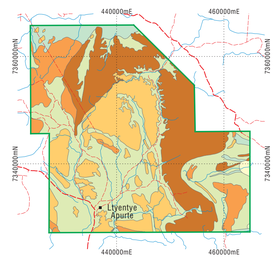


GROUNDWATER RESOURCES MAP



km 0 5 10 15 20 km

SURFACE WATER RESOURCES MAP



LEGEND

POROUS AND FRACTURED ROCKS - WIDESPREAD AQUIFERS
- good to fair quality water. yield 2.5 to 5.0 L/s, much higher yields available at depth in many locations
- fair to brackish quality water yield 0.5 to 2.5 L/s.
- fair to saline quality water yield 0.5 to 2.5 L/s.

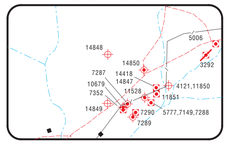
POROUS AND FRACTURED ROCKS - LOCAL AQUIFERS
- brackish to saline quality water yield 0.5 to 2.5 L/s.

FRACTURED AND WEATHERED ROCKS - LOCAL AQUIFERS
- good to fair quality water, brackish with depth. yield 0.5 to 2.5 L/s, higher yields available in some locations
- brackish quality water yield 0.5 to 2.5 L/s
- salty water yield 0.1 to 5.0 L/s

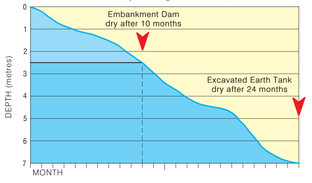
ALLUVIAL AQUIFERS - LOCAL AQUIFERS
- good to fair quality water. yield 0.5 to 2.5 L/s, possibly up to10 L/s
- Geological Boundary
- Watertable
- A—B Line of cross-section Note : Also see main map for line of cross-section

	DESCRIPTION
	High sandstone and siltstone ridges up to 270 metres, surface runoff high. Generally unsuitable for surface storage development, some opportunities on adjacent valley floors where there is a good depth of soil and weathered rock.
	Sandstone ridges and hills up to 150 metres above the plains, surface runoff moderate. Surface water development unsuitable for surface storage development, some opportunities on adjacent valley floors where there is a good depth of soil and weathered rock.
	Sandstone, siltstone, limestone, dolomite and shale hills up to 80 metres above the plains, surface runoff high to moderate. Surface water development unsuitable.
	Valleys between ridges and hills or undulating plains, generally shallow bedrock except in Phillipson Pound where there can be a good depth of soil. Surface water developments unsuitable due to shallow soils or potential leakage problems.
	Alluvial plains. Flat gently undulating plains. Soils are not ideal for surface storage and in some areas quite poor. Excavated earth tanks can be constructed where sufficient runoff and a good depth of soil /weathered rock exists
	Sand dune country, inter-dunal runoff, some clay pan, gypsum and calcrete areas, unsuitable for surface storage development.

ENLARGEMENT



DAM STORAGE
Continuously Watering 200 Head of Cattle



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Topographic data provided by the Australian Surveying and Land Information Group.
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Project management, data compilation and interpretation by Graham Ride, Landcare Engineer, Natural Resources.

Map compilation by Avis Wiegele, GIS Officer, Natural Resources, June 1997.

Second Edition prepared and edited by John Hansen, GIS Officer, Natural Resources, June 2000.

The map has been converted to Geocentric Datum of Australia (GDA94), and Government Department changes updated.
Third Edition prepared and edited by Lynton Fritz, Land and Water Division, NRETA, July 2007.

Design File; Santa-Teresa_Wrs-Map-100k_m53
Print File; Santa-Teresa_Water-Resources

WATER RESOURCES DEVELOPMENT OPTIONS

	PREFERRED OPTION	DESCRIPTION
1	Unsuitable (bores or dams)	High rocky ridge and hill country.
2	Pumping from remote bores or dams	Poor quality groundwater and cavernous formations below surface in many places, not suitable for bores or dams.
3	Pumping from remote bores supplemented by dams	Plains and broad valley floors. Excavated earth tanks preferable to embankment dams.
4	Surface water (dams) supplemented by groundwater (bores)	Plains and rocky hill country where groundwater supplies brackish. Dam construction in suitable soils where there is a good depth of soil and or decomposed bedrock preferably 6-7 metres below ground level.
5	Surface water (dams)	Plains and rocky hill country where groundwater supplies saline. Dam construction in suitable soils where there is a good depth of soil and or decomposed bedrock preferably 6-7 metres below ground level.
6	Groundwater (bores)	Goodto fair quality, large supplies.
6A	Groundwater (bores) - domestic use	Phillipson Pound good quality water zone. Moderate supplies available from sand, sandstone and siltstone aquifers.
6B	Groundwater (bores) - pastoral or agricultural use	Phillipson Pound fair quality water zone. Fair quality water available from sandstone, limestone and other aquifers.

kilometres 0 1 2 3 4 5 10 15 kilometres

Black Numbered Lines are 10 000 Metre Intervals of the Australian Map Grid, Zone 53
Projection : Universal Transverse Mercator
Horizontal Datum : GDA 94 Vertical Datum : AHD

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Water Resources,
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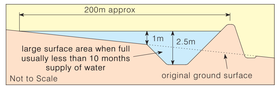
Ph. (08) 8951 9215, Fax. (08) 8951 9268
Alice Springs Plaza 1, Todd Mall,
Alice Springs, Northern Territory of Australia.

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

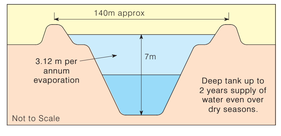
- 2 ..... Development boundary
- ..... Development option number
- ..... Equipped bore
- ..... Equipped bore abandoned
- ..... Cased bore
- ..... Monitoring bore
- ..... Investigation bore
- ..... Exploration bore
- ..... Abandoned bore
- RN 5006 ..... Registered number of bore/well
- Phillipson Bore ..... Name of bore/well
- ..... Excavated earth tank
- ..... Stock watering tank
- Relief Dam ..... Earth embankment dam
- ..... Name of tank/dam

- ..... Pipeline
- ..... Ephemeral watercourse
- ..... Waterhole/billabong
- ..... Spring
- ..... Major road - sealed
- ..... Major road - unsealed
- ..... Minor road - sealed
- ..... Minor road - unsealed
- ..... Track
- Bullock Paddock ..... Paddock name
- ..... Building/s
- ..... Landing ground
- ..... Fence
- +45 ..... Spot elevation - m A.H.D.
- ..... Cadastral boundary

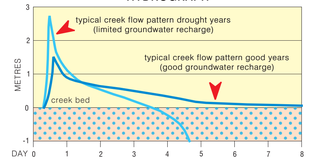
EMBANKMENT DAM



EXCAVATED EARTH TANK



HYDROGRAPH



NATIONAL LANDCARE PROGRAM

Northern Territory Government
Department of Natural Resources, Environment and the Arts

WATER RESOURCES DEVELOPMENT MAP OF
LTYENTYE APURTE
SANTA TERESA
THIRD EDITION JULY 2007