

LEGEND
POROUS AND FRACTURED ROCKS - WIDESPREAD AQUIFERS
 Good to fair quality water. Yield >5.0 L/s.
 Good to fair quality water. Yield 2.5 to 5.0 L/s, much higher yields available at depths in many locations.
 Fair to brackish quality water. Yield >5.0 L/s.
 Fair to saline quality water. Yield 0.5 to 2.5 L/s.
 Brackish quality water. Yield <0.5 L/s.
 Saline quality water. Yield >5.0 L/s.

FRACTURED AND WEATHERED ROCKS - LOCAL AQUIFERS
 Good to fair quality water. Yield 2.5 to 5.0 L/s.
 Fair to brackish quality water. Yield 0.5 to 2.5 L/s.
 Fair to saline quality water, some locations good quality water. Yield <0.5 L/s, occasionally higher.
 Saline quality water. Yield <5.0 L/s.
 Saline quality water. Yield <0.5 L/s.

ALLUVIAL AQUIFERS - LOCAL AQUIFERS
 Good to fair quality water. Yield 0.5 to 2.5 L/s.
 Fair to brackish quality water. Yield 0.5 to 2.5 L/s.

LEGEND
 Development boundary
 Development option number
 Equipped bore
 Equipped bore abandoned
 Cased bore
 Monitoring bore
 Investigation bore
 Exploration bore
 Abandoned bore
 Registered number of bore/well
 Name of bore/well
 Excavated earth tank
 Stock watering tank
 Earth embankment dam
 Name of tank/dam
 Pipeline
 Ephemeral watercourse
 Spring
 Major road - sealed
 Major road - unsealed
 Minor road - sealed
 Minor road - unsealed
 Track
 Bullock Paddock
 Paddock name
 Building/s
 Landing ground
 Fence
 Spot elevation - m A.H.D.
 Cadastral boundary
 Municipal boundary
 No aquifers
 Yield < 0.1 L/s.
 Geological Boundary
 Water table
 Line of cross-section (Also see main map for line of cross-section)

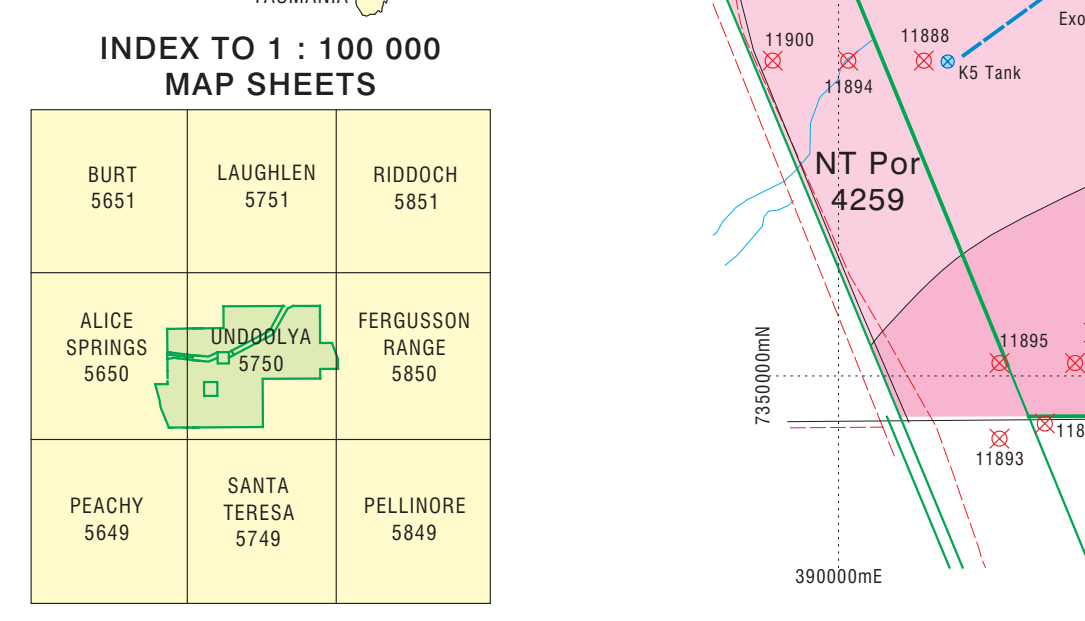
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BURT 5651	LAUGHLIN 5751	RIDDICH 5851
ALICE SPRINGS 5850	UNDYLYA 5750	FERGUSON RANGE 5850
PEACHY 5649	SANTA TERESA 5749	PELLINORE 5849



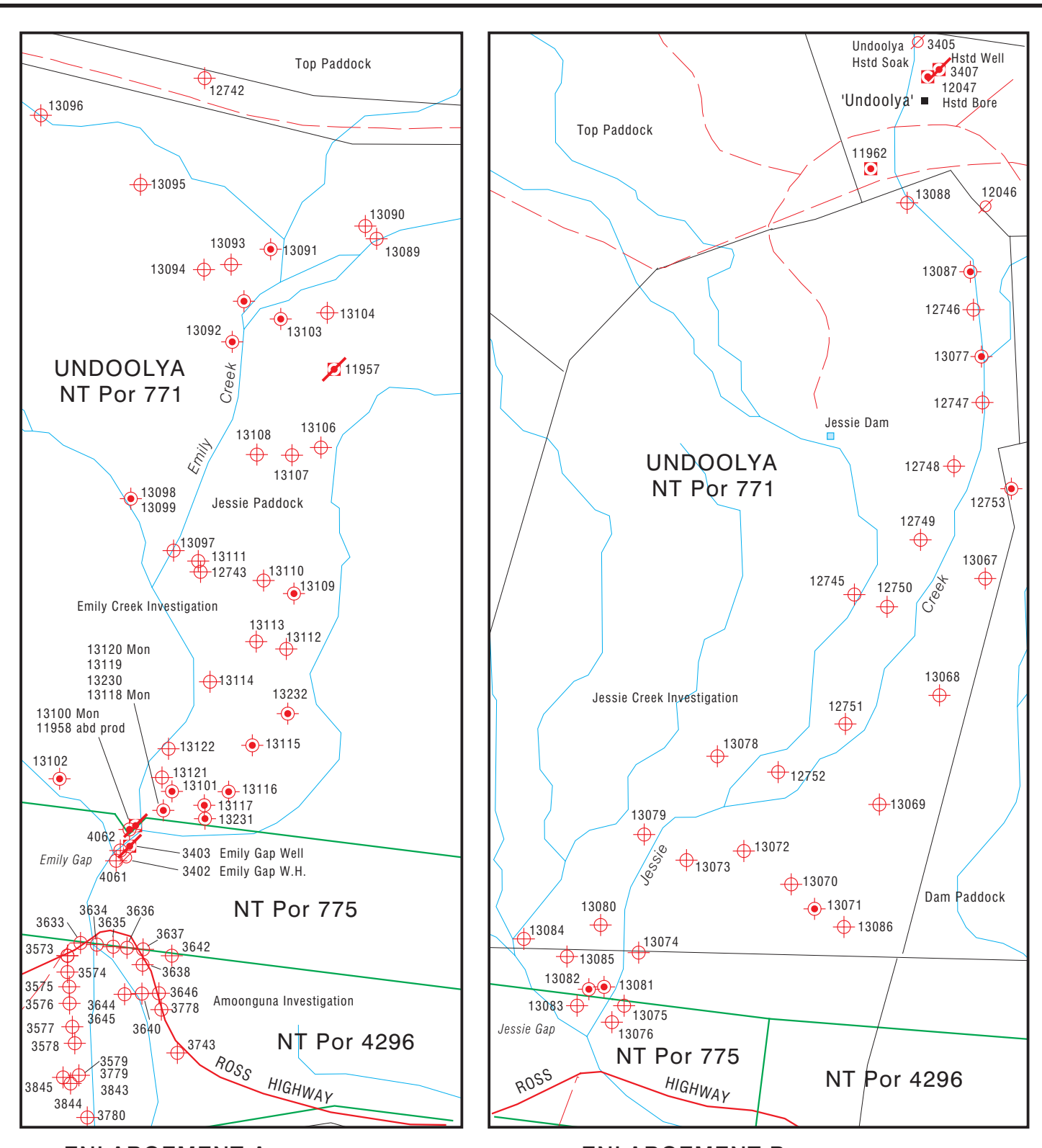
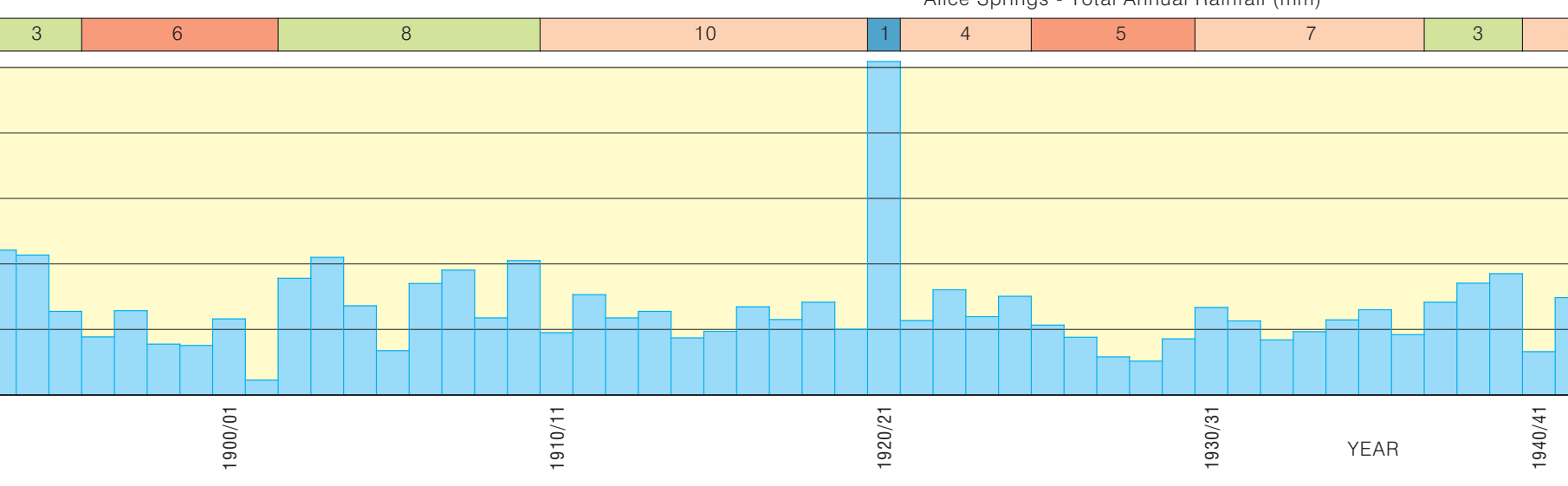
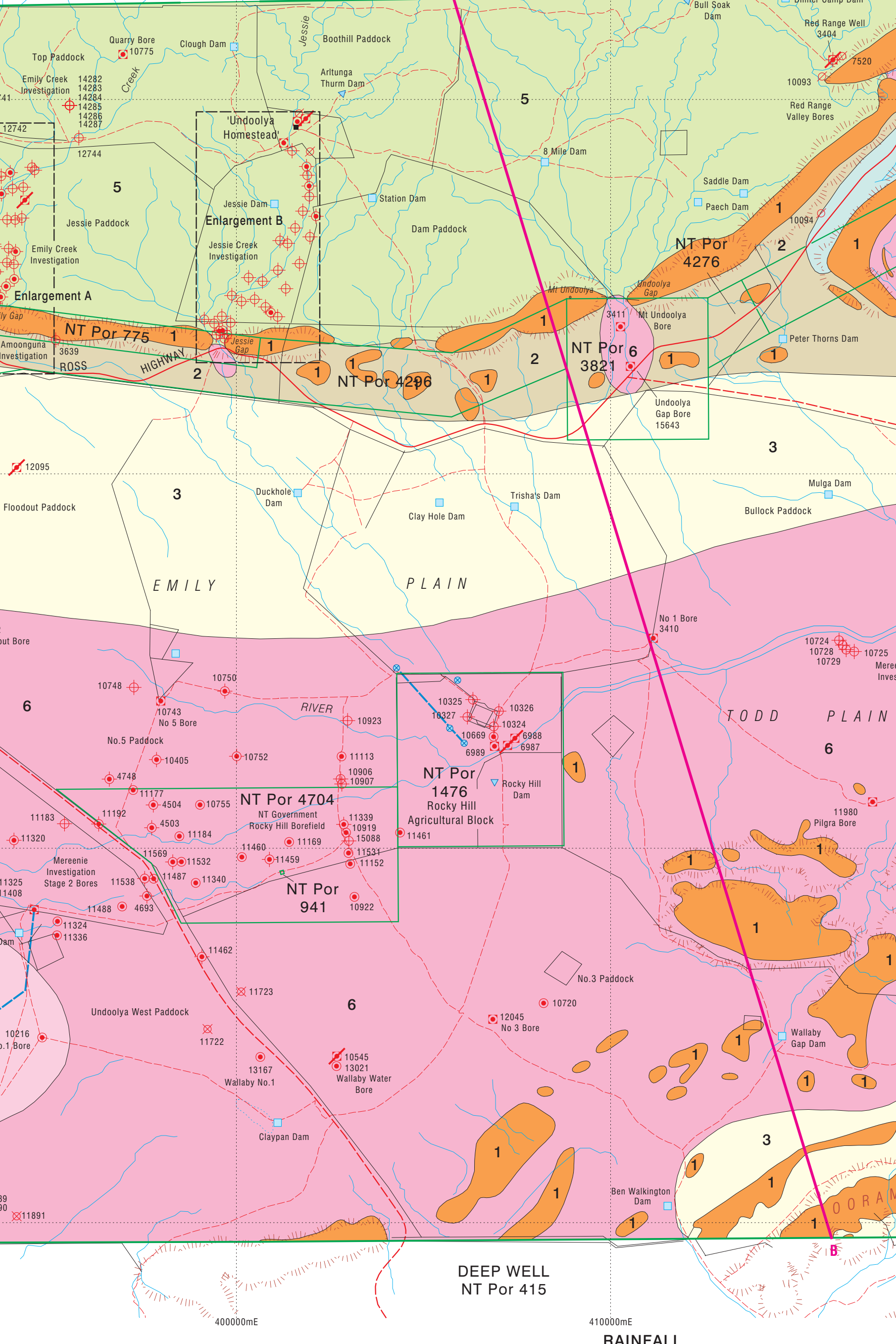
LEGEND
 drought
 dry
 average
 good
 wet
 Alice Springs rainfall

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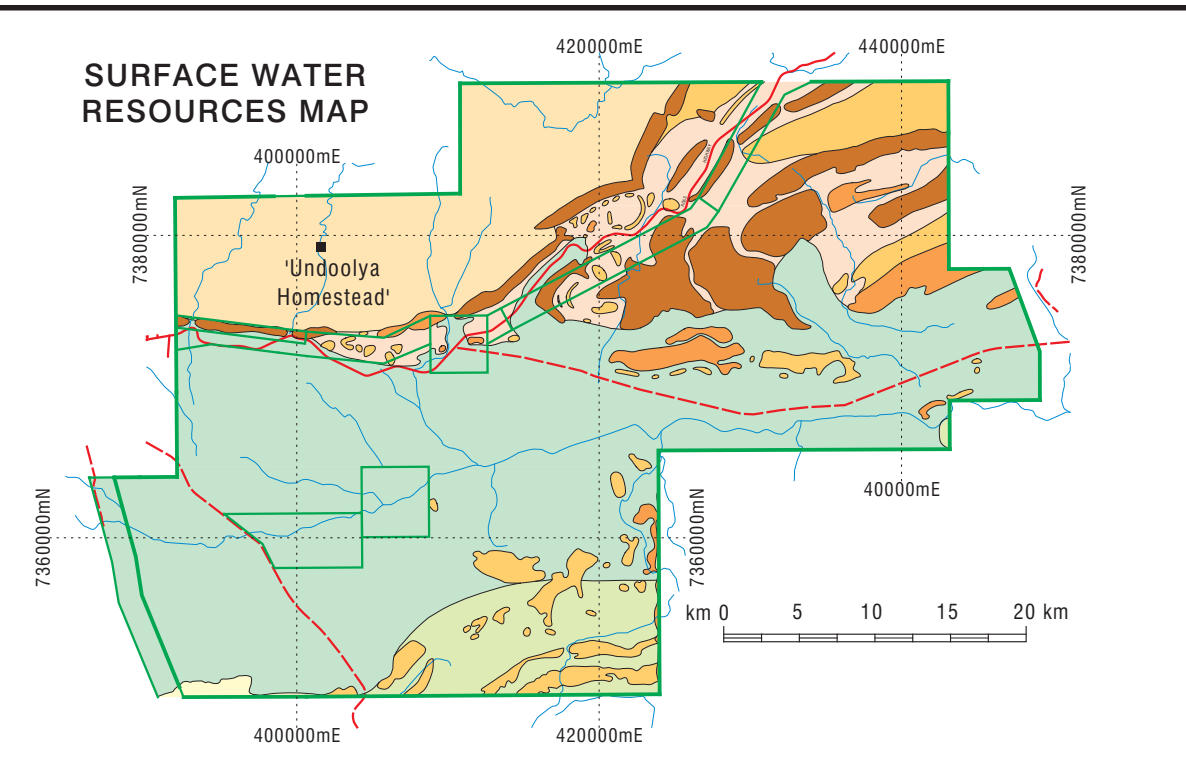
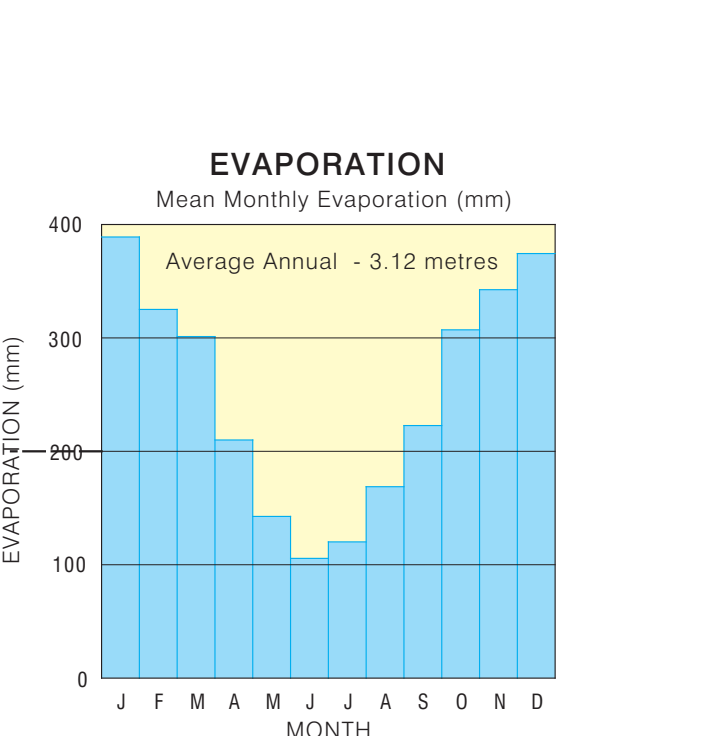
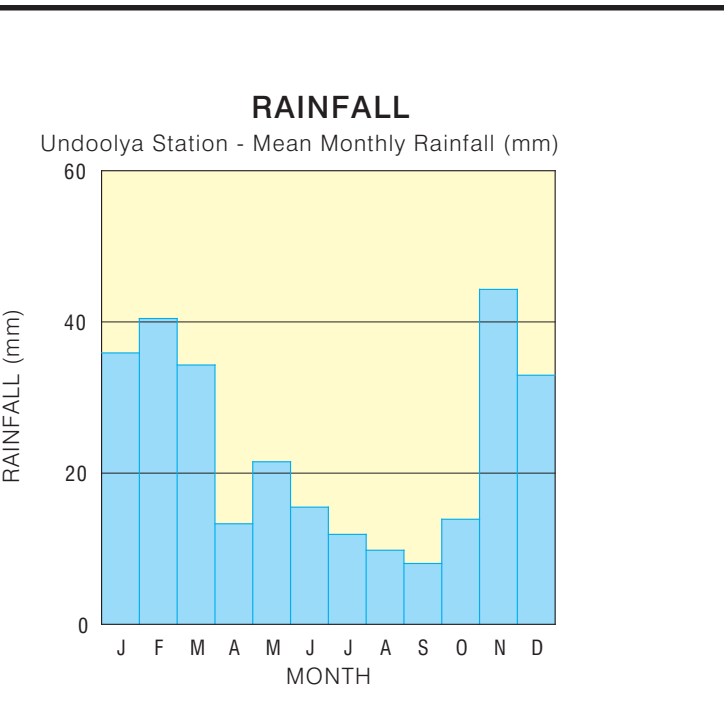
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LEGEND
 Pipeline
 Ephemeral watercourse
 Spring
 Major road - sealed
 Major road - unsealed
 Minor road - sealed
 Minor road - unsealed
 Track
 Bullock Paddock
 Paddock name
 Building/s
 Landing ground
 Fence
 Spot elevation - m A.H.D.
 Cadastral boundary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

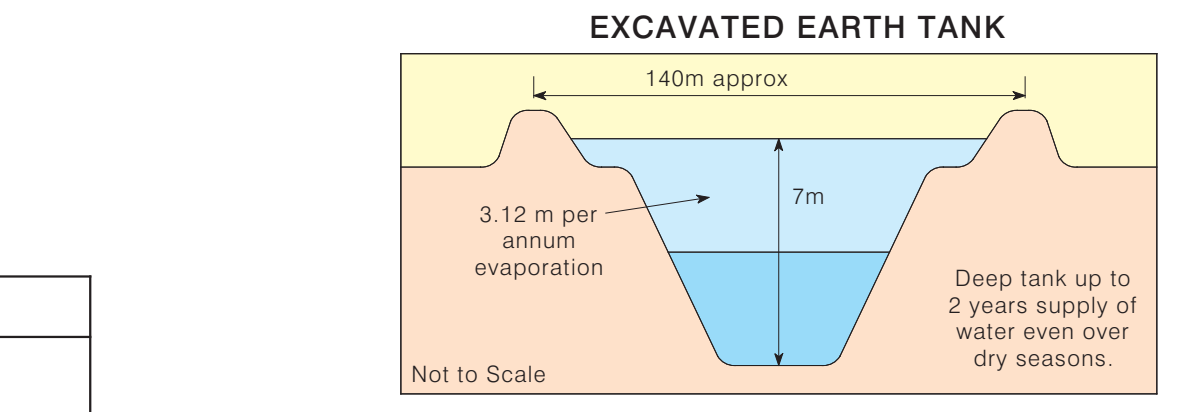
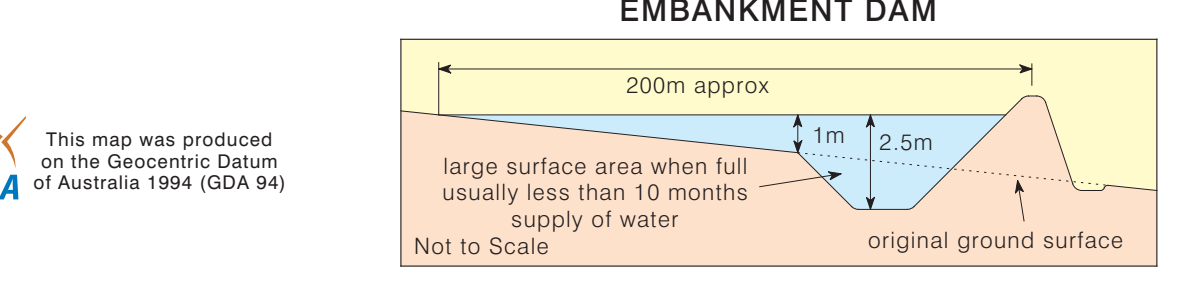
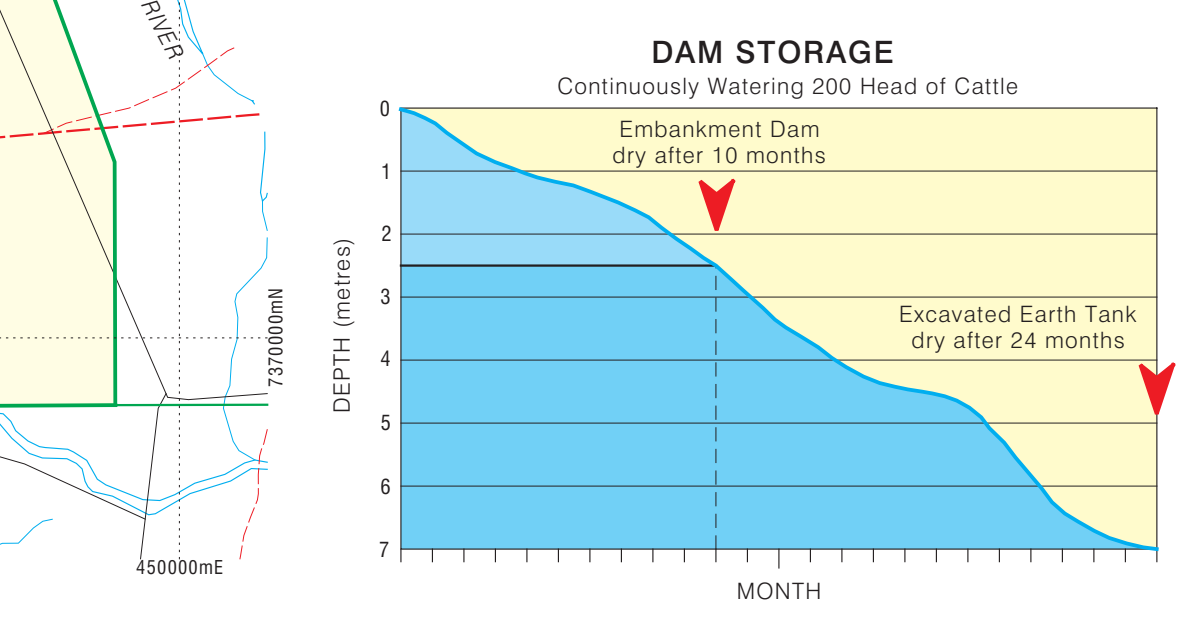
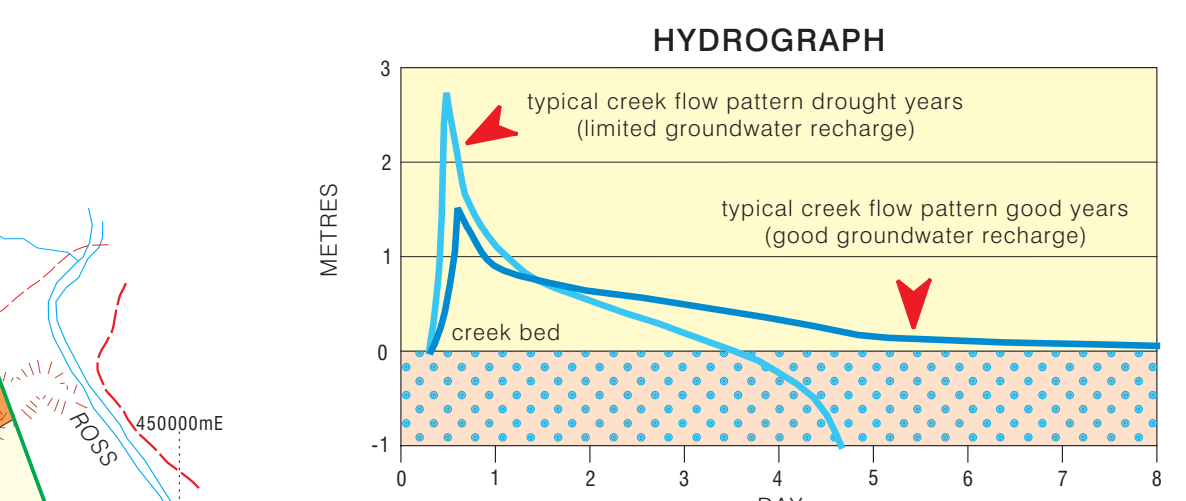
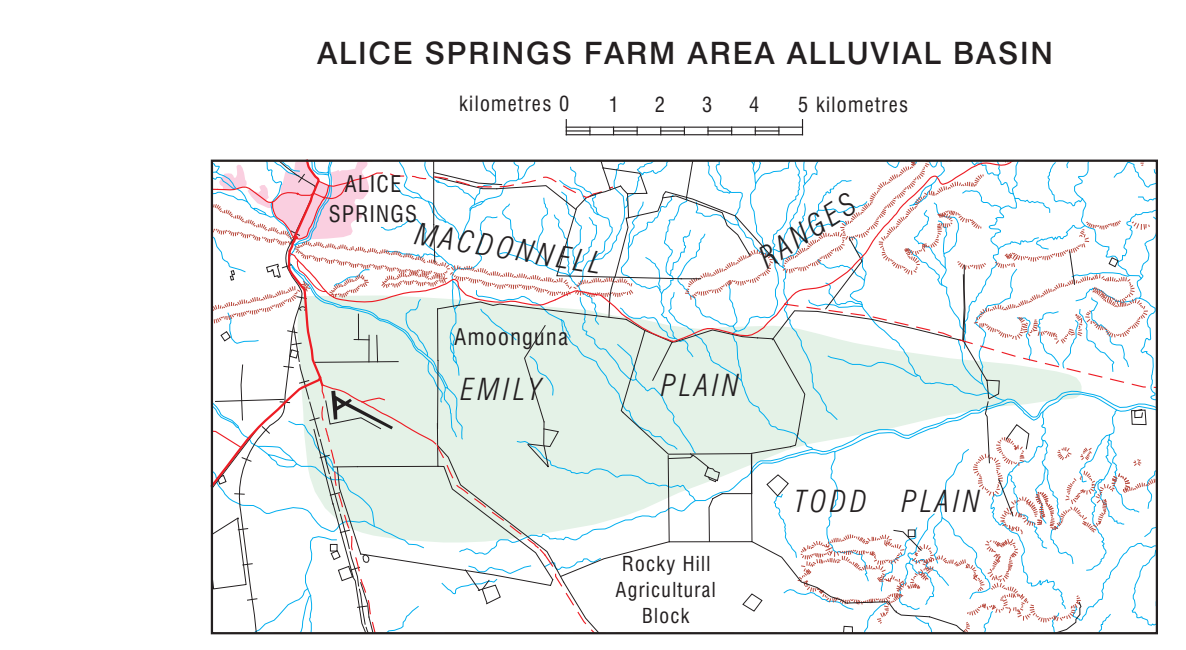
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ENLARGEMENT A NOT TO SCALE
ENLARGEMENT B NOT TO SCALE



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.
Rugged terrain, hills up to 40 metres with narrow plains and valleys.
Valleys between ridges and hills or undulating plains, generally shallow bedrock. 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.
Generally broad undulating siltstone, shale and limestone terrain, soils generally unsuitable to dam construction, but deep excavated earth tanks can be constructed in selected areas.
Sand dune country, inter-dunal runoff, some clay pan, gypsum and calcareous areas, unsuitable for surface storage development.



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, plus sand dune country north and south of the sandstone hills and ranges. 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) On and adjacent to outcrop of Merenie and Pacoota Sandstone Hills and Ranges at sites selected to ensure that at least 250 metres of sandstone occurs below the surface.
7	Deep groundwater available (bores) Within major groundwater basin, good quality water in Merenie and Pacoota Sandstones.

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WATER RESOURCES DEVELOPMENT MAP OF UNDOOLYA STATION
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