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Maps produced using data compiled from water resource information held by the Natural Resources Division Satellite imagery supplied by Geomagic Pty. Ltd. Geological data provided by the Australian Geological Survey Organisation. Topographic data provided by the Australian Surveying and Land Information Group. Cadastral data provided by the Land Information Division of the Department of Lands Planning and Environment.

Project management, data compilation and interpretation by Graham Ride, Landcare Engineer, Natural Resources. Map compilation by Avis Wiegale, GIS Officer, Natural Resources, August 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: Todd-River-Stn. Wrs-Map-100k.m53 Print File: Todd-River-Stn. Water-Resources

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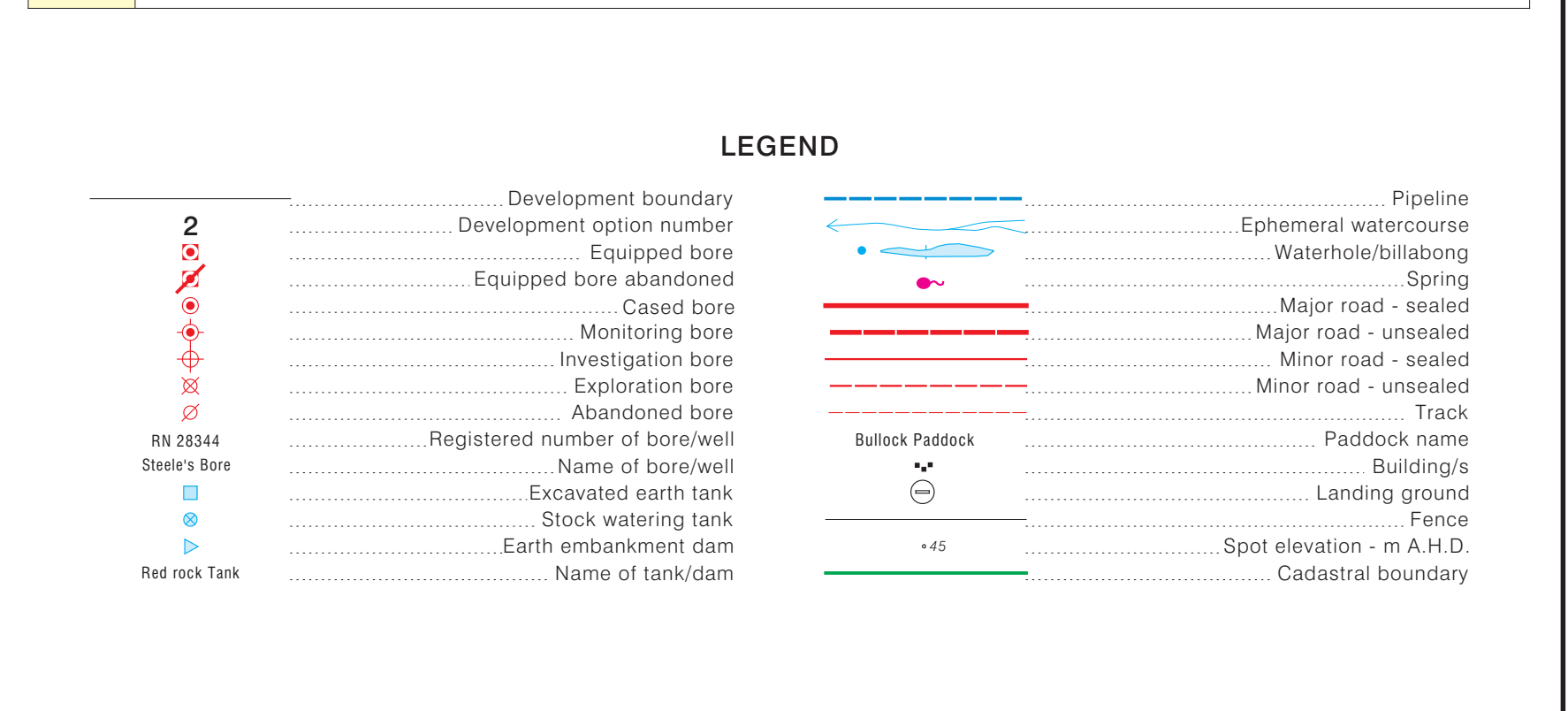
GDA This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

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

DESCRIPTION

High sandstone and siltstone ridges up to 270 metres above surrounding plain, 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, siltstone, shale, limestone and dolomite ridges and hills up to 150 metres above the plains, including lowlands; surface runoff moderate. Surface water development generally unsuitable.
Undulating plains and valley floors, soil decomposed from sandstone, shale, dolomite and limestone. Generally poor soils, unsuited to dam construction but deep excavated earth tanks can be constructed in selected areas where there is sufficient runoff and a good depth of soil and weathered rock exists.
Alluvial plains, floodout and run on areas. Soils are not ideal for surface storage. Excavated earth tanks can be constructed, where there is sufficient runoff and a good depth of soil / weathered rock exists.
Sand dune country, inter-dunal runoff, some clay pan, gypsum and calcrete areas, limited potential for surface storage development in areas where soil is suitable and where there is sufficient runoff.



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 Mereenie and Poooota 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 Mereenie, Poooota Sandstones.

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NATIONAL LANDCARE PROGRAM
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JANISSET CLMA
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WATER RESOURCES DEVELOPMENT MAP OF TODD RIVER STATION

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