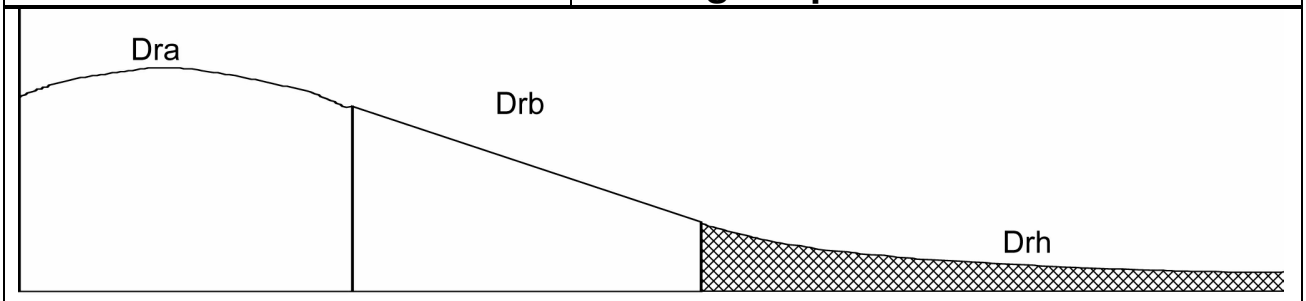
MAP UNIT SYMBOL: **Drh** Area: 610 ha	MAP UNIT: **Devonian Rhyodacite, drainage depression**



A. GENERAL DESCRIPTION

The drainage depressions often reach to the crest of hills and therefore have a very large slope range. There are numerous depressions in the rhyodacite, therefore only the major ones have been marked. As with all drainage depressions, the soils are variable. Gradational soils with a sandy loam to a clay loam topsoil and a structured clay subsoil predominate. Dark duplex soils with a whole coloured clay subsoil also occur.

SITE CHARACTERISTICS

Parent Material Age:	Devonian	**Depth to Seas. Watertable:**	>2.0 m
Parent Material Lithology:	Rhyodacite	**Flooding Risk:**	High
Landform Pattern:	Rolling hills	**Drainage:**	Moderately well drained
Landform Element:	Drainage depression	**Rock Outcrop:**	0%
Slope a) common:	12%	**Depth to Hard Rock:**	>1.5 m
Slope b) range:	10-32%	**Present Land Use:**	Grazing, forested

Potential Recharge to Groundwater: Low

Major Native Vegetation Species: Manna Gum, Messmate, Blackwood

LAND DEGRADATION

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet/rill	gully				
Susceptibility	High	Moderate	High	Moderate	Low	Moderate
Incidence	Low	Low	Low	Low	Nil	Not available

B. SOIL PROFILE

PROFILE DESCRIPTION

A1	0-160 mm	Very dark grey (10YR3/1) sandy loam, moderate subangular blocky structure, rough fabric, a few medium rhyodacite gravel fragments, pH 6.0. Gradual transition to:
A3	160-400 mm	Very dark grey (10YR3/1) clay loam with coarse sand, weak to moderate subangular blocky structure, rough fabric, a few medium rhyodacite gravel fragments, pH 6.0. Gradual transition to:
B2	400-650 mm+	Dark grey (10YR4/1) light clay with fine sand, strong subangular blocky structure, rough fabric, a few medium rhyodacite gravel fragments, pH 6.0.

CLASSIFICATION

Factual Key:	Gn4.51 (major), Dd1.11 (minor)
Australian Soil Classification:	Haplic, ?, Grey Dermosol, (confidence level 4); medium, slightly gravely, loamy/clayey, moderate-deep
Unified Soil Group:	Not available

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (H_2O)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	6.0	2-10	NA	NA	NA	NA	NA	H	NA
A3	6.0	2-10	NA	NA	NA	NA	NA	M	NA
B2	6.0	2-10	NA	NA	NA	NA	NA	L	NA

VL: Very Low L: Low M: Moderate H: High VH: Very High D: Deficient S Satisfactory
T: Potentially Toxic NA: Not Available * see appendix D for analytical results ** Strongly Acidic

SOIL PROFILE CHARACTERISTICS:

Permeability: Slow (estimate)
Available Water Capacity: Moderate (123 mm H_20)
Linear Shrinkage (B horizon): Low - moderate (estimate)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C_2 T_4 S_4	Susceptibility to sheet and rill erosion, slope
Effluent Disposal (septic tanks)	5	Flood risk
Farm Dams	4	Slope
Building Foundations		
slab	5	Flood risk
stumps/footings	5	Flood risk