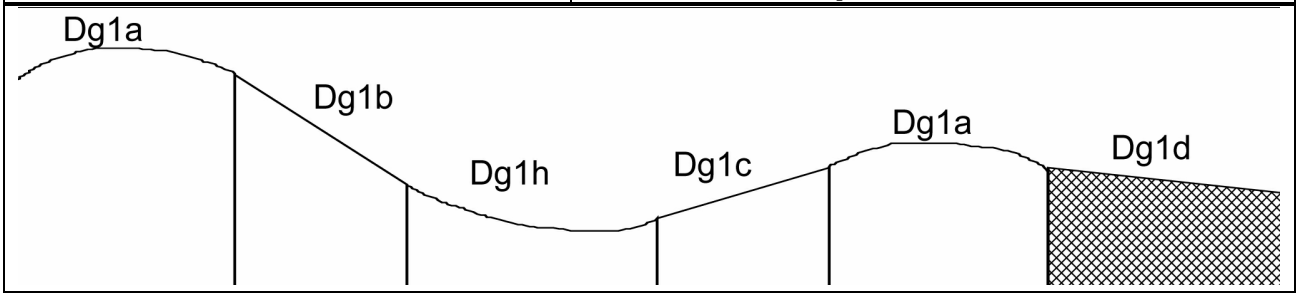
MAP UNIT SYMBOL: **Dg1d** Area: 4266 ha	MAP UNIT: **Devonian granitic, red, moderate slope**



A. GENERAL DESCRIPTION

The granodiorite soils are very variable: red and occasionally brown duplex and gradational soils are common. The subsoil is commonly mottled, although mottling in the transitional horizons and not the major B horizons can also occur. A2 horizons are occasionally present, particularly on the mid to lower slope, and they may or may not be bleached. Occasionally, a horizon may be bleached but not classified as an A2 horizon, due mainly to the similar colour of the subsoil. The colour of the subsoil ranges from brown to dark reddish brown. As this unit is so variable, a detailed site was not completed. The profile description described below is of a red duplex with a mottled subsoil.

SITE CHARACTERISTICS

Parent Material Age:	Devonian	**Depth to Seas. Watertable:**	>2.0 m
Parent Material Lithology:	Granodiorite	**Flooding Risk:**	Nil
Landform Pattern:	Rolling hills	**Drainage:**	Moderately well drained
Landform Element:	Hillslope	**Rock Outcrop:**	0-2%
Slope a) common:	16%	**Depth to Hard Rock:**	>1.0 m
Slope b) range:	11-20%	**Present Land Use:**	Forested, grazing

Potential Recharge to Groundwater: Low
Major Native Vegetation Species: Narrow-leaved Peppermint, Broad-leaved Peppermint, Messmate, Silver Wattle, Manna Gum, Blackwood, Black Wattle

LAND DEGRADATION

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A1 0-185 mm — Dark brown (7.5YR3/2) sandy clay loam with coarse sand, weak granular structure, rough fabric, pH 6.0. Abrupt transition to:

A3 185-390 mm — Brown (7.5YR5/4) sandy clay loam with coarse sand, a few medium faint orange mottles, weak subangular blocky structure, rough fabric, pH 6.5. Clear transition to:

B21 390-500 mm — Reddish brown (5YR5/4) light clay with coarse sand, many coarse distinct orange mottles, moderate angular blocky structure, rough fabric, pH 6.0. Clear transition to:

B22 500-700 mm — Reddish brown (5YR4/4) light medium clay with coarse sand, coarse prominent orange and red mottles are abundant, moderate angular blocky structure, rough fabric, pH 6.0. Clear transition to:

B3 700-800 mm+ Reddish brown (5YR4/4) sandy clay, coarse prominent orange and red mottles are abundant, moderate angular blocky structure, rough fabric; fine granodiorite gravel fragments are common.

CLASSIFICATION

Factual Key: Dr3.12/1, Gn4.12, Dr2.21/2, Gn4.14, Db2.1
Australian Soil Classification: Mottled, ?, Red Chromosol (confidence level 4); medium, non-gravely, clay loamy/clayey, moderate-deep
Unified Soil Group: CL

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH (H_2O)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	6.0	<2	NA	NA	NA	NA	NA	NA	NA
A3	6.5	<2	NA	NA	NA	NA	NA	NA	NA
B21	6.0	<2	NA	NA	NA	NA	NA	NA	NA
B22	6.0	<2	NA	NA	NA	NA	NA	NA	NA
B3	NA	10-20	NA	NA	NA	NA	NA	NA	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 Moderate (estimate)
Available Water Capacity: Moderate (141 mm H_2O)
Linear Shrinkage (B horizon): Low (estimate)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C_2 T_3 S_3	Slope, available water holding capacity, susceptibility to sheet, rill, gully and wind erosion
Effluent Disposal (septic tanks)	3	Slope, drainage
Farm Dams	4	Slope, permeability
Building Foundations		
slab	4	Slope
stumps/footings	3	Slope, drainage, susceptibility to slope failure