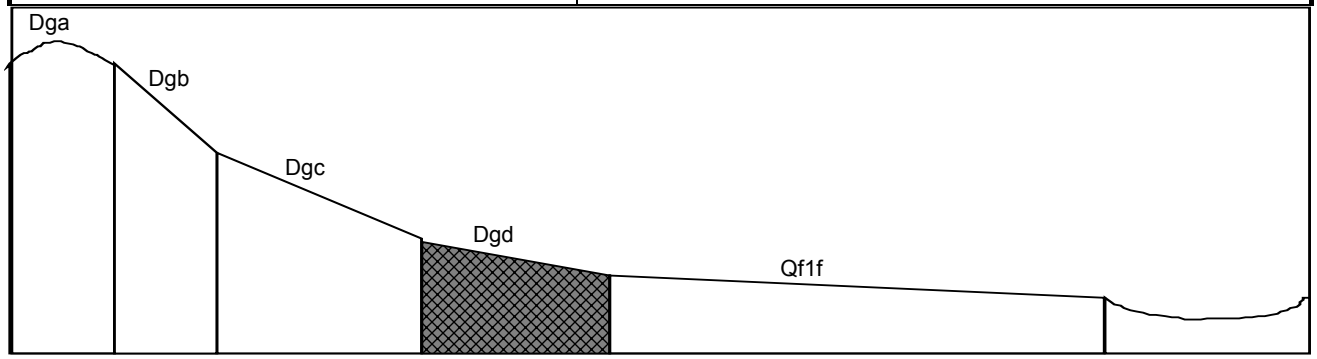
MAP UNIT SYMBOL : Dgd **Area : 77 ha**	MAP UNIT : Devonian granite, moderate slope.



A. GENERAL DESCRIPTION :

Moderate slopes occur in the steep and rolling hills of the granitic areas. Yellow duplex soils are predominant where bleached clayey sands overlie a heavily mottled sandy clay loam or sandy clay. These mottles indicate impeded drainage. Occassionally boulders may outcrop or come close to the surface within this map unit. Uniform sandy loams, as found in units Dga and Dgb, will occur in these areas. This map unit is very susceptible to sheet erosion and highly susceptible to mass movement. Drainage lines that are present in this map unit have not been mapped as they were too small.

SITE CHARACTERISTICS :

Parent Material Age:	Devonian	**Depth to Seas. Watertable:**	>5.0m
Parent Material Lithology:	Granite/ granodiorite	**Flooding Risk:**	Nil
Landform Pattern:	Steep/ rolling hills	**Drainage:**	Moderately drained
Landform Element:	Hillslope	**Rock Outcrop:**	0-5%
Slope a) common:	15%	**Depth to Hard Rock:**	>1.4m
Slope b) range:	11-20	**Present Land Use:**	Pine plantation
Potential Recharge to Groundwater:	Low		
Major Vegetation Species:	Blue Gum		

LAND DEGRADATION :

Land Degradation	Water Erosion		Wind Erosion	Mass Movement	Salting	Acidification
	sheet / rill	gully				
Susceptibility	Very high	Moderate	Moderate	High	Low	Low
Incidence	Moderate	Low - Mod	Low	Low - Mod	Very low	Not available

B. SOIL PROFILE

PROFILE DESCRIPTION

A1 0-150mm Very dark grey (10YR3/1) light sandy clay loam, weak subangular blocky structure, peds 5-10mm, rough fabric, moderately weak consistence, high organic matter, pH 4.4. Clear transition to:

A21 150-250mm Greyish brown (10YR5/2) clayey sand, bleached (10YR7/3) when dry, apedal, sandy fabric, moderately weak consistence, common fine quartz gravels, pH 4.7. Clear transition to:

A22 250-405mm Pale brown (10YR6/3) clayey sand, bleached (10YR8/3) when dry, a few medium sized faint orange mottles, apedal, sandy fabric, loose consistence, a few fine quartz gravels, pH 4.9. Clear transistion to;

B2 405-1180mm Grey (10YR5/1) sandy clay loam, abundant medium sized distinct orange mottles, weak subangular blocky structure, peds 50-100mm, rough fabric, moderately firm consistence, common fine quartz and feldspar gravels, pH 5.5. Gradual transition to:

B3 1180-1400^{+}mm Brown (10YR5/3) sandy loam, abundant fine distinct orange mottles, apedal, sandy fabric, many fine quartz, feldspar and mica gravel fragments, pH 6.6.

CLASSIFICATION

Factual Key (Northcote):	Dy3.42 (major) Uc2.21 (minor)
Australian Soil Classification:	Eutrophic, Mottled-Subnatric, Grey Sodosol; non-medium, gravelly, loamy/clay loamy, deep.
Unified Soil Group:	CL

INTERPRETATION OF LABORATORY ANALYSIS

Horizon	pH ($CaCl_2$)	%Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	**4.4**	**1.9**	**VL**	**L**	**D**	**D**	**S**	**H**	**L**
A21	**4.7**	**1.3**	**VL**	**VL**	**D**	**D**	**S**	**VL**	**L**
A22	**4.9**	**2.5**	**VL**	**VL**	**D**	**D**	**S**	**VL**	**H**
B2	**5.5**	**2.0**	**VL**	**L**	**D**	**D**	**S**	**VL**	**H**
B3	**6.6**	**7.4**	**VL**	**L**	**D**	**D**	**S**	**VL**	**M**

VL : Very low L : Low M : Moderate H : High VH : Very High D : Deficient S : Satisfactory

T : Toxic * see appendix D for analytical results ** : Strongly acidic N.A. : Not Available

SOIL PROFILE CHARACTERISTICS:

Permeability:	Slow (average 46mm/day, range 21-67 mm/day)
Available Water Capacity:	Very high (224 mmH_2O)
Linear Shrinkage (B horizon):	Low (9%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	$C_3T_4S_5$	Very susceptibile to sheet erosion
Effluent Disposal (septic tanks)	4	Low permeability
Farm Dams	4	Moderately steep slope, low suitability of subsoil, shallow depth to hard rock, highly susceptible to slope failure
Secondary Roads	4	Moderately steep slope, highly susceptibile to slope failure, highly dispersible subsoil
Rural Residential	5	Farm dams, building foundations
Small Farms	5	Agriculture