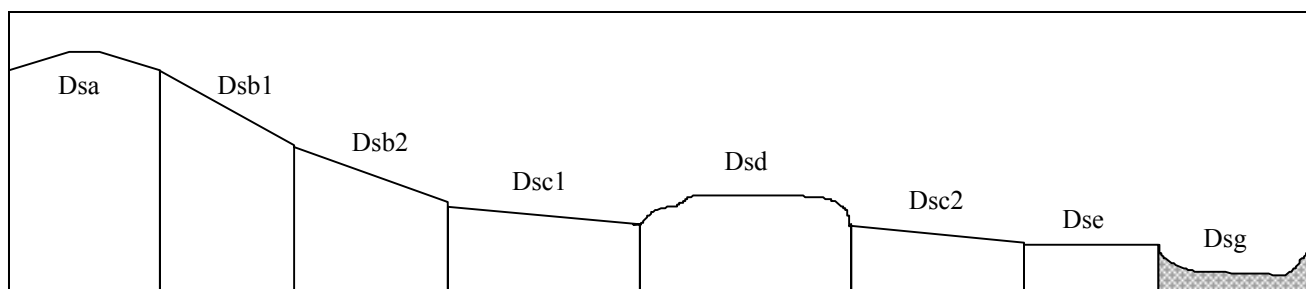


<b>Land Unit:</b> Devonian sediments, drainage depressions	<b>Land Unit symbol:</b> Dsg
	<b>% of study area:</b> 1.6



### General Description:

Within this landscape, a dendritic drainage pattern prevails but the soil profile varies considerably in depth and textural changes, depending on the position of the drainage depression in the landscape, the size of the catchment area and the slope. Tree-clearing, house and road construction and any other lower-water-use activity within the catchment places additional pressure on the drainage depressions through increased water flow and sediment load, thereby increasing the hazard of sheet, gully and streambank erosion. A variable hardpan occurs.

### Site characteristics:

**Site No. 5**

Parent material		Depth to seasonal watertable:	
Age:	Devonian	0 - 1 m	
Lithology:	Sandstones and siltstones	Potential recharge to groundwater:	
Landform		Variable *	
Pattern:	Undulating rises	Flooding risk:	
Element:	Drainage depression	High	
Slope		Drainage:	
Common:	5%	Depth to hardrock:	
Range:	3 - 7%	> 2 m	
		Rock outcrop:	
		0%	
		Annual Rainfall:	
		940 mm	
Native vegetation:		Cleared	
Present land use:		Cleared; native and improved pastures for the grazing of sheep and cattle	

\* Low when impermeable hardpan occurs, High when bedrock is intersected

### Land degradation:

Degradation process	Water erosion		Wind erosion	Salting	Acidification
	Sheet/rill	Gully			
Susceptibility	High	High	Low	Moderate	High
Incidence	Low	Low	Nil	Low	Low

### Soil profile characteristics:

Permeability	(measured - average, range):	-
	(estimated):	Slow: 50 - 100 mm/day
Available water capacity:		160 mm H <sub>2</sub> O
Linear Shrinkage (B horizon):		10%

**Soil profile description:****Land Unit symbol:** Dsg

- A 0 - 12 cm Dark brown (7.5YR3/2) silty loam, weak subangular blocky structure, peds 12 mm, rough fabric, very weak consistence - moist, high organic matter, pH 5.5. Clear transition to:
- B1 12 - 43 cm Brown (7.5YR5/4) silty clay loam, weak angular blocky structure, peds 5 mm, smooth fabric, moderately weak consistence - moist, few ironstone gravel fragments, low organic matter, pH 5.7. Gradual transition to:
- B2 43 - 67<sup>+</sup> cm Reddish yellow (7.5YR6/6) medium clay, medium faint brown mottles are common, moderate subangular blocky structure, peds 12 mm, very weak consistence - moist, many angular ironstone gravel fragments, pH 5.9. Abrupt transition to:
- Pan A strongly cemented, continuous, massive sesquioxidic hardpan.

**Soil classification:**

Factual Key (Northcote, 1979):

Australian Soil Classification (Isbell, 1992):

Unified Soil Group:

Gn 3.71 - 3/1/012

Ferric, Petroferric, Yellow, Brown, Dermosol; medium, slightly gravelly silty/clayey, deep  
ML**Interpretation of soil analyses:** (see Appendix 2 for analytical results)

Horizon	pH	Gravel %	E.C. (salts)	Nutrient status	P	K	Al	Organic matter	Dispersibility
A	5.5	5	VL	L	D	S	T	H	L
B1	5.7	8	VL	L	D	D	T	L	M
B21	5.7	7	VL	VL	D	D	T	L	M
B22	5.9	30	VL	VL	D	D	S	VL	L

VL: Very Low

L: Low

M: Moderate

H: High

VH: Very High

D: Deficient

S: Satisfactory

T: Toxic

NA: Not Available

\*\* Acidic

**Land capability ratings and limitations for specific land uses:**

Land use	Rating	Major limiting factor(s)
Agriculture	C <sub>3</sub> T <sub>3</sub> S <sub>5</sub>	Depth to seasonal watertable < 1 metre, seasonal overland water flow, high susceptibility to erosion
Building foundations - slab	5	Poor - very poor drainage, depth to seasonal watertable < 1 metre and seasonal overland water flow
- stumps/footings	5	
Effluent disposal (septic tanks)	5	Poor - very poor drainage seasonal overland water flow, seasonal water table < 1 metre
Farm dams	5	Very low suitability of subsoil, depth to seasonal watertable < 3 metres
Residential - rural	5	Very low capability for effluent disposal, farm dams and secondary roads
- urban	5	
Scenic value	3, 4 & 5	Low Scenic Quality and distance from public thoroughfares
Secondary roads	5	Poor - very poor drainage, highly susceptible to seasonal flooding, seasonal water table at < 1 metre