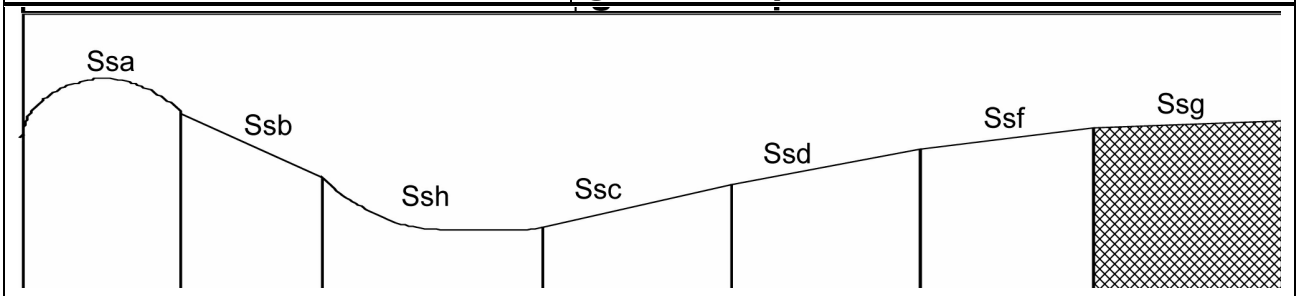
MAP UNIT SYMBOL: **Ssg** Area: 7330 ha	MAP UNIT: **Silurian sediments, very gentle slope**



A. GENERAL DESCRIPTION

The common soil type on the very gentle slopes is a yellow duplex, with a mottled subsoil and A2 horizons absent. A minor variety is a yellow gradational soil, grading from a clay loam topsoil to a light to medium clay subsoil. A mottled subsoil is common. The majority of this component has been cleared for grazing, although stands of remnant vegetation remains along roadsides. Salinity occurs mainly in and around the drainage lines and depressions dissecting this component.

SITE CHARACTERISTICS

Parent Material Age:	Silurian/Ordovician	**Depth to Seas. Watertable:**	>2.0 m
Parent Material Lithology:	Sedimentary	**Flooding Risk:**	Nil
Landform Pattern:	Gently undulating rises	**Drainage:**	Moderately well drained
Landform Element:	Hillslope	**Rock Outcrop:**	0%
Slope a) common:	2%	**Depth to Hard Rock:**	>1.5 m
Slope b) range:	1-3%	**Present Land Use:**	Grazing

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

LAND DEGRADATION

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

B. SOIL PROFILE

PROFILE DESCRIPTION

A1	0-135 mm	Very dark grey (10YR3/1) loam, weak subangular blocky structure, peds less than 2 mm, earthy fabric, very weak consistence, many coarse subangular and angular sedimentary and quartz fragments, pH 4.5. Clear transition to:
A12	135-190 mm	Dark greyish brown (10YR4/2) loam, weak subangular blocky structure, peds 10-20 mm, rough fabric, moderately firm consistence, many medium subrounded sedimentary and quartz gravel fragments, pH 4.5. Abrupt transition to:
B1	190-420 mm	Light yellowish brown (10YR6/4) light clay with fine sand, weak subangular blocky structure, peds 20-50 mm, rough fabric, moderately strong consistence, organic segregations are common, a few fine subangular quartz, sedimentary and carbon gravel fragments, pH 5.0 . Clear transition to:
B2	420-790 mm	Light yellowish brown (10YR6/4) medium clay, medium faint orange and yellow mottles are common, strong subangular blocky structure, peds 10-20 mm, strong fabric, a few medium subangular sedimentary gravel fragments, pH 5.5. Clear transition to:

B3 790-1060 mm — Very pale brown (10YR7/4) light clay, many coarse distinct orange and yellow mottles, moderate subangular blocky structure, peds 10-20 mm with some 2-5 mm, rough fabric, very strong consistence, pH 6.0. Clear transition to:

BC 1060-1400 mm+ — Partially weathered sedimentary rock

CLASSIFICATION

Factual Key:	Dy3.11 (major) Gn3.21 (minor)
Australian Soil Classification:	Mottled, Dystophic, Yellow Kurosol; medium, moderately gravely, loamy/clayey, moderate
Unified Soil Group:	CH

INTERPRETATION OF LABORATORY ANALYSIS*

Horizon	pH ($CaCl_2$)	% Gravel	E.C. (salts)	Nutrient Status	P	K	Al	Organic matter	Dispersibility
A1	3.7**	27.9	VL	L	S	S	T	H	L
A12	3.8**	49.3	VL	VL	D	D	T	L	H
B1	4.0**	3.7	VL	VL	D	D	T	L	H
B2	4.1**	9.3	VL	VL	D	D	T	VL	H
B3	4.1**	<1	VL	VL	D	D	T	VL	H

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 (133 mm H_2O)
Linear Shrinkage (B horizon): Low (11%)

C. LAND CAPABILITY ASSESSMENT

Land Use	Class	Major Limiting Feature(s)/Land Use
Agriculture	C_2 T_1 S_3	Condition of topsoil, available water capacity, gravel content, susceptibility to gully and wind erosion
Effluent Disposal (septic tanks)	3	Permeability, drainage
Farm Dams	3	Suitability of subsoil, depth to seasonal watertable, depth to hardrock
Building Foundations		
slab	3	Drainage, stone content
stumps/footings	3	Drainage, stone content