

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 256 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	01/08/91	Elevation:	456 metres
Map Ref.:	Sheet No. : 6728-20 1:10000	Rainfall:	No Data
Northing/Long.:	6159770 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	317470 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.2 m deep,Porous, Schist

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	0 %	Aspect:	10 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Stable, Minor or present (wind);

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy2.21
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Tall Strata - Tree, 1.01-3m, Sparse. *Species includes - Pinus species

Surface Coarse Fragments: 2-10%, stony, 200-600mm, rounded, Schist

Profile Morphology

A11	0 - 0.03 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Weak grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.02);
A12	0.03 - 0.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.05);
A2	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersedweak, Schist, coarse fragments; Field pH 5.5 (Raupach, 0.13);
B	0.2 - 0.3 m	Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy clay; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.28);
BC	0.3 - 0.5 m	Yellow (10YR7/8-Moist); , 2-10% , Distinct; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 5 (Raupach, 0.6);
BC	0.5 - 1 m	Reddish yellow (5YR7/6-Moist); , 2-10% , Distinct; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 4.5 (Raupach, 0.95);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile