

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 295 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	08/08/91	Elevation:	427 metres
Map Ref.:	Sheet No. : 6628-26 1:10000	Rainfall:	No Data
Northing/Long.:	6151440 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	311215 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, 0.65 m deep, Porous, Pegmatite

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	4 %	Aspect:	50 degrees

Surface Soil Condition (dry): Firm

Erosion: Active, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Chromosol	Principal Profile Form:	Dy4.21
ASC Confidence:	Great Soil Group:	Brown podzolic soil
Confidence level not specified		

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Pinus radiata, Eucalyptus macrocarpa

Surface Coarse Fragments: 20-50%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A11	0 - 0.1 m	Very dark grey (5YR3/1-Moist); , 0-0% ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
A12	0.1 - 0.2 m	Dark grey (5YR4/1-Moist); , 0-0% ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.2); Many, very fine (0-1mm) roots; Clear change to -
Bt	0.2 - 0.35 m	Reddish brown (5YR5/4-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear change to -
BC1	0.35 - 0.4 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.4); Common, very fine (0-1mm) roots; Clear change to -
BC2	0.4 - 0.5 m	Reddish brown (5YR5/3-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.5); Few, very fine (0-1mm) roots; Clear change to -
C1	0.5 - 0.65 m	Light grey (5YR7/1-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C2	0.65 - 0.7 m	White (5YR8/1-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 5 (Raupach, 0.65);

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Site Notes

Morphological 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 Cmol (+)/kg	Acidity		%

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		
m					g/g - m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile