

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 298 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	07/08/91	Elevation:	438 metres
Map Ref.:	Sheet No. : 6628-26 1:10000	Rainfall:	No Data
Northing/Long.:	6151565 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	311540 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.5 m deep,Porous, Clay

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	60 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.81
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

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

Vegetation:

Tall Strata - Tree, <0.25m, Sparse. *Species includes - Pinus radiata

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; 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; Field pH 5 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A1	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; 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; Field pH 6 (Raupach, 0.2); Many, very fine (0-1mm) roots;
A1	0.2 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 6 (Raupach, 0.25); Common, very fine (0-1mm) roots; Clear change to -
A21	0.25 - 0.3 m	Yellow (10YR7/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 6 (Raupach, 0.3); Few, very fine (0-1mm) roots;
A22	0.3 - 0.5 m	Light grey (10YR7/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 10-20%, medium gravelly, 6-20mm, subrounded, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.4); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.55); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.6 - 1 m	Brownish yellow (10YR6/6-Moist); , 2-10% , Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.95); Few, very fine (0-1mm) roots;

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

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Laboratory Analyses Completed for this profile