

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 260 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	29/07/91	Elevation:	473 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6160560 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	318600 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, 0.8 m deep,Sand

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Alcove	Slope Category:	Gently inclined
Slope:	8 %	Aspect:	300 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Db4.11
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

Site Disturbance:

Vegetation:

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia pycnantha
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

O	0 - 0.1 m	Organic Layer; Dark brown (7.5YR3/2-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; Very weak consistence; Field pH 5.5 (Raupach, 0.05); Abundant, very fine (0-1mm) roots; Clear change to -
A11	0.1 - 0.3 m	Dark greyish brown (10YR4/2-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; Very weak consistence; Field pH 6.5 (Raupach, 0.2); Many, very fine (0-1mm) roots; Clear change to -
A12	0.3 - 0.5 m	Brown (10YR4/3-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; Very weak consistence; Field pH 6.5 (Raupach, 0.4); Common, very fine (0-1mm) roots;
A12	0.5 - 0.6 m	Brown (10YR4/3-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; Very weak consistence; Field pH 5.5 (Raupach, 0.55); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.6 - 0.75 m	Dark yellowish brown (10YR4/4-Moist); , 10-20% , Distinct; Medium heavy clay; Moderate grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.7); Few, fine (1-2mm) roots; Abrupt change to -
C	0.75 - 1 m	Yellow (10YR8/6-Moist); , 2-10% , Prominent; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.95);

Morphological Notes

Observation Notes

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Laboratory Test Results:

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

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

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