

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 259 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	29/07/91	Elevation:	487 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6160500 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	318840 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.85 m deep, Schist

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:	2 %	Aspect:	220 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dr5.41
ASC Confidence:		Great Soil Group:	Red podzolic soil
Confidence level not specified			

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Shrub, 1.01-3m, Mid-dense. *Species includes - Xanthorrhoea species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia pycnantha
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus leucoxydon

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Yellowish red (5YR2/5-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Very weak consistence; Field pH 9.5 (Raupach, 0.05); Abundant, very fine (0-1mm) roots; Abrupt change to -
A2	0.1 - 0.3 m	Pinkish yellow (7.5YR8/2-Moist); ; 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Very weak consistence; Field pH 8.5 (Raupach, 0.2); Common, very fine (0-1mm) roots; Clear change to -
A3	0.3 - 0.4 m	Dark grey (5YR4/1-Moist); ; 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.32); Many, very fine (0-1mm) roots; Clear change to -
Bt	0.4 - 0.6 m	Reddish brown (5YR4/4-Moist); ; 10-20% , Distinct; Medium heavy clay; Moderate grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; Field pH 5.5 (Raupach, 0.45); Common, very fine (0-1mm) roots; Clear change to -
BC	0.6 - 0.75 m	Reddish brown (5YR4/3-Moist); ; 10-20% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Very firm consistence; Field pH 5.5 (Raupach, 0.6); Common, very fine (0-1mm) roots; Clear change to -
C	0.75 - 0.85 m	White (5YR8/1-Moist); ; 2-10% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Very firm consistence; Field pH 5 (Raupach, 0.75); 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 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