

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 253 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	26/07/91	Elevation:	435 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6160050 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	316985 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.9 m deep, Clay

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	320 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.41
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6 (Raupach, 0.05); Abundant, very fine (0-1mm) roots; Clear change to -
A12	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6 (Raupach, 0.15); Many, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.4 m	Yellow (2.5Y7/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6 (Raupach, 0.25); Common, very fine (0-1mm) roots; Abrupt change to -
Bt	0.4 - 0.5 m	Yellowish brown (10YR5/6-Moist); , 2-10% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; Field pH 6 (Raupach, 0.45); Few, very fine (0-1mm) roots;
Bt	0.5 - 0.65 m	Yellowish brown (10YR5/6-Moist); , 2-10% , Distinct; Heavy clay; Massive grade of structure; Earthy fabric; Moist; Very firm consistence; Field pH 6 (Raupach, 0.6); Few, very fine (0-1mm) roots; Gradual change to -
BC	0.65 - 0.9 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Moist; Very firm consistence; Field pH 6 (Raupach, 0.75); Few, very fine (0-1mm) roots; Gradual change to -
C	0.9 - 1 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Moist; Very 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