

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 280 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	05/08/91	Elevation:	522 metres
Map Ref.:	Sheet No. : 6728-20 1:10000	Rainfall:	No Data
Northing/Long.:	6163800 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	317960 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.8 m deep, Schist

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	160 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor or present (wind);

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:

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A12	0.1 - 0.3 m	Brown (10YR4/3-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.2); Many, very fine (0-1mm) roots;
A12	0.3 - 0.5 m	Brown (10YR4/3-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.4); Many, very fine (0-1mm) roots;
A12	0.5 - 0.6 m	Brown (10YR4/3-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.55); Common, very fine (0-1mm) roots; Clear change to -
B	0.6 - 0.75 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Sandy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.7); Few, very fine (0-1mm) roots; Abrupt change to -
C	0.75 - 1 m	Red (2.5YR4/8-Moist); , 2-10% , Distinct; Sand; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moderately moist; Very firm consistence; Field pH 5.5 (Raupach, 0.92);

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 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