Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **254** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	I. Hollingsworth	**Locality:**	
Date Desc.:	01/08/91	**Elevation:**	440 metres
Map Ref.:	1:10000	**Rainfall:**	No Data
Northing/Long.:	6160000 AMG zone: 54	**Runoff:**	Slow
Easting/Lat.:	317210 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

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

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:	5 %	**Aspect:**	280 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
Chromosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Soloth

Site Disturbance:

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5 (Raupach, 0.02); Many, very fine (0-1mm) roots;
	0.05 - 0.1 m	; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very weak consistence; Field pH 6 (Raupach, 0.09); Many, very fine (0-1mm) roots;
A2	0.1 - 0.15 m	Brown (10YR5/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.12); Common, very fine (0-1mm) roots;
Bt	0.15 - 0.3 m	Yellowish brown (10YR5/6-Moist); , 10-20% , Distinct; Medium heavy clay; Weak grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.2); Common, very fine (0-1mm) roots; Gradual change to -
Bt	0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); , 10-20% , Distinct; Medium clay; Weak grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.35); Few, very fine (0-1mm) roots; Gradual change to -
BC	0.4 - 0.5 m	Light brownish grey (10YR6/2-Moist); , 2-10% , Distinct; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.45); Few, very fine (0-1mm) roots;
BC	0.5 - 0.8 m	Light yellowish brown (10YR6/4-Moist); , 2-10% , Faint; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 5.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Gradual change to -
C	0.8 - 1 m	Light yellowish brown (10YR6/4-Moist); , 0-2% , Distinct; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Field pH 5.5 (Raupach, 0.9);

Morphological Notes

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Observation Notes

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Laboratory Test Results:

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

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis		
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	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	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

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Laboratory Analyses Completed for this profile