

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 305 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 08/08/91	Elevation: 431 metres
Map Ref.: 1:10000	Rainfall: No Data
Northing/Long.: 6161940 AMG zone: 54	Runoff: Slow
Easting/Lat.: 312520 Datum: AGD66	Drainage: Imperfectly drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Auger boring, 2 m deep, Porous, Clay

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%	Pattern Type: Hills
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Foothills	Slope Category: Gently inclined
Slope: 3 %	Aspect: 350 degrees

Surface Soil Condition (dry): Firm

Erosion: Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Hydrosol	Principal Profile Form: Dg4.71
ASC Confidence:	Great Soil Group: Gleyed podzolic soil
Confidence level not specified	

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Ferricrete

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots;
A1	0.1 - 0.2 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Clear change to -
A21	0.2 - 0.3 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 2-10%, stony, 200-600mm, subrounded, Ferricrete, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;
A22	0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -
Btg	0.4 - 0.5 m	Light grey (10YR7/2-Moist); , 20-50% , Prominent; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;
Btg	0.5 - 0.65 m	Light grey (10YR7/2-Moist); , 20-50% , Prominent; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.65 - 0.8 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Prominent; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
Btg	0.8 - 1 m	White (2.5Y8/2-Moist); , 2-10% , Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

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Site 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