

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 094 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	20/12/90	Elevation:	425 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6157320 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	319915 Datum: AGD66	Drainage:	Very poorly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 1 m deep, Porous, Sandstone

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	300 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Dy5.41
ASC Confidence:		Great Soil Group:	Soloth
Confidence level not specified			

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Pinus radiata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); White (10YR8/2-Dry); , 7.5YR56, 2-10% , 0-5mm, Faint; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Loose consistence; Non-plastic; Non-sticky; Field pH 7 (Raupach); Few, coarse (>5mm) roots; Sharp, Smooth change to -
A21	0.1 - 0.3 m	Greyish brown (10YR5/2-Moist); White (10YR8/1-Dry); , 7.5YR46, 2-10% , 0-5mm, Faint; Loamy sand; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; Non-plastic; Non-sticky; Field pH 7 (Raupach); Common, medium (2-5mm) roots; Clear, Smooth change to -
A22	0.3 - 0.5 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR8/3-Dry); , 10YR68, 2-10% , 0-5mm, Faint; Loamy sand; Weak grade of structure; Common (1-5 per 100mm2) macropores, Moist; Loose consistence; Non-plastic; Non-sticky; Few, very fine (0-1mm) roots; Sharp, Tongued change to -
Btg	0.5 - 0.65 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); , 10YR66, 10-20% , 5-15mm, Distinct; Light clay; Moderate grade of structure; Wet; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
	0.65 - 0.8 m	; Non-plastic; Non-sticky;
	0.8 - 1 m	;

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	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile