

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 404 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	11/03/92	Elevation:	440 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6154800 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	319250 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.4 m deep, Slightly porous, Silcrete

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	310 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Hydrosol		Principal Profile Form:	Dy5.81
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

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

Vegetation:

Tall Strata - Tree, 20.01-35m, Sparse. *Species includes - Pinus radiata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

O	0 - 0.02 m	Organic Layer; Dark grey (10YR4/1-Moist); ; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Medium (2-5mm) macropores, Weak consistence; Field pH 5 (Raupach, 0.01); Many, very fine (0-1mm) roots; Sharp, Smooth change to -
A1	0.02 - 0.25 m	Brown (10YR5/3-Moist); , 10-20% , Faint; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5.5 (Raupach, 0.2); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.25 - 0.35 m	White (10YR8/2-Moist); , 10-20% , Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.3); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
Bt	0.35 - 0.4 m	Brownish yellow (10YR6/6-Moist); , 10-20% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.36); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
Bq	0.4 - m	; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Duripan, Very strongly cemented, Continuous, Massive; Field pH 8 (Raupach);

Morphological Notes

Observation Notes

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Laboratory Test Results:

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

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Laboratory Analyses Completed for this profile