

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 296 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	08/08/91	Elevation:	461 metres
Map Ref.:	Sheet No. : 6628-26 1:10000	Rainfall:	No Data
Northing/Long.:	6151410 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	311400 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, No Data

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	4 %	Aspect:	80 degrees

Surface Soil Condition (dry): Firm

Erosion: Active, Minor (sheet)

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

Vegetation:

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Pinus radiata

Surface Coarse Fragments: 0-2%, stony, 200-600mm, rounded, Quartz

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Loose consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.15); Many, very fine (0-1mm) roots; Clear change to -
A2	0.25 - 0.3 m	Light grey (10YR7/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.25); Common, very fine (0-1mm) roots;
A2	0.3 - 0.35 m	Light grey (10YR7/2-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.32); Common, very fine (0-1mm) roots; Abrupt change to -
Bt	0.35 - 0.5 m	Brownish yellow (10YR6/8-Moist); , 2-10% , 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%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.42); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); , 2-10% , Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.52); Few, very fine (0-1mm) roots; Clear change to -

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Bt	0.6 - 1 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , 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; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.8); Few, very fine (0-1mm) roots;
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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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile