Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **111** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	I. Hollingsworth	**Locality:**	
Date Desc.:	29/04/91	**Elevation:**	423 metres
Map Ref.:	1:10000	**Rainfall:**	No Data
Northing/Long.:	6154600 AMG zone: 54	**Runoff:**	Slow
Easting/Lat.:	316130 Datum: AGD66	**Drainage:**	Poorly drained

Geology

ExposureType:	Undisturbed soil core	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Undisturbed soil core, 2 m deep,Porous, Clay

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	**Pattern Type:**	Peneplain
Morph. Type:	Open depression (vale)	**Relief:**	5 metres
Elem. Type:	Drainage depression	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	70 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

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

Mapping Unit: N/A
Principal Profile Form: Dg2.42
Great Soil Group: Soloth

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sedge, 0.26-0.5m, Closed or dense. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Pinus radiata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Light grey (10YR7/2-Dry); , 10YR46, 0-2% , 5-15mm, Faint; Sandy loam; 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); Abundant, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.3 m	Light grey (10YR7/2-Moist); White (10YR8/2-Dry); , 7.5YR58, 2-10% , 0-5mm, Prominent; Sandy loam; Massive grade of structure; Medium, (5 - 10) mm crack; Moderately moist; Loose consistence; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersedstrong, Quartz, coarse fragments; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots;
A2	0.3 - 0.4 m	Light grey (10YR7/2-Moist); Very pale brown (10YR8/3-Dry); , 7.5YR58, 2-10% , 0-5mm, Prominent; Sandy loam; Weak grade of structure; Moist; Firm consistence; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, subangular, stratifiedstrong, Quartz, coarse fragments; Field pH 7.5 (Raupach); Common, fine (1-2mm) roots; Sharp change to -
AB	0.4 - 0.45 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); , 7.5YR46, 20-50% , 0-5mm, Distinct; Sandy clay; Moderate grade of structure; Wet; Very firm consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
Btg	0.45 - 0.5 m	Light grey (10YR7/2-Moist); Light grey (10YR7/2-Dry); , 10YR56, 10-20% , 5-15mm, Prominent; Medium clay; Strong grade of structure; Strong consistence; Very plastic; Normal plasticity; Slightly sticky; 0-2%, fine gravelly, 2-6mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear change to -
BC	0.5 - 0.6 m	Light grey (10YR7/2-Moist); Light grey (10YR7/2-Dry); , 10YR66, 20-50% , 5-15mm, Prominent; , 2.5YR36; Light medium clay; Single grain grade of structure; Loose consistence; Very plastic; Normal plasticity; Slightly sticky; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Sharp change to -
C	0.6 - 1 m	Light grey (10YR7/1-Moist); White (2.5Y8/0-Dry); ; , 10YR68; Light medium clay; Single grain grade of structure; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

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Site Notes

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 C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								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