

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 101 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	21/10/91	Elevation:	416 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6157790 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	319020 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, 3 m deep, Porous, Clay

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Peneplain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Drainage depression	Slope Category:	Level
Slope:	1 %	Aspect:	360 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
Confidence level not specified			

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

Vegetation: Low Strata - Sedge, 0.26-0.5m, Isolated plants. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/2-Dry); ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; Non-plastic; Non-sticky; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear change to -
AB	0.1 - 0.3 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); , 7.5YR4/6, 0-2% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Common (1-5 per 100mm ²) macropores, Moderately moist; Weak consistence; Non-plastic; Non-sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt change to -
Bt	0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); Light brownish grey (2.5Y6/2-Dry); , 10YR6/6, 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure; Moist; Firm consistence; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.4 - 0.5 m	Light brownish grey (2.5Y6/2-Moist); Light brownish grey (2.5Y6/2-Dry); , 10YR6/6, 20-50% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure; Wet; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.5 - 0.75 m	Brownish yellow (10YR6/6-Moist); Brownish yellow (10YR6/6-Dry); , 2.5Y6/2, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure; Moderately moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (Raupach); Few, very fine (0-1mm) roots;
Btk	0.75 - 1 m	Greyish brown (2.5Y5/2-Moist); Greyish brown (2.5Y5/2-Dry); , 0-0% ; Medium clay; Strong grade of structure; Moderately moist; Very strong consistence; Very plastic; Normal plasticity; Moderately sticky; Common (10 - 20 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 9 (Raupach); Few, very fine (0-1mm) roots;

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