

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** F2 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	WILLIAMSTOWN
Date Desc.:	21/01/96	Elevation:	415 metres
Map Ref.:	Sheet No. : 6728-21 1:10000	Rainfall:	No Data
Northing/Long.:	6157120 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	317635 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	Almost certain or certain
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1 m deep, Porous, , Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Peneplain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Drainage depression	Slope Category:	Level
Slope:	0.5 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		Great Soil Group:	N/A

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.1 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach, 0.2); Few, very fine (0-1mm) roots; Abrupt, Irregular change to -
ABg	0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 7.5 (Raupach, 0.3); Abrupt, Wavy change to -
Btg	0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, 20-50 mm; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 8.5 (Raupach, 0.4); Abrupt, Smooth change to -
Bg	0.4 - 0.5 m	Light olive brown (2.5Y5/6-Moist); , 2.5Y42, 20-50% , 5-15mm, Distinct; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach, 0.5);

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BCK 0.5 - 1.5 m Light olive brown (2.5Y5/6-Moist); , 0-0% ; Light medium clay; Strong grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm²) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach, 1.5);

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