

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 039 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	27/11/90	Elevation:	419 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6158160 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	319310 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1 m deep,Porous, Clay

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Peneplain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Valley flat	Slope Category:	Level
Slope:	0.5 %	Aspect:	20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Dy3.13
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 - Sod grass, <0.25m, Mid-dense. *Species includes - Danthonia species, Hordeum marineum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.25 m	Brown (10YR5/3-Moist); Light grey (10YR7/1-Dry); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; Loose consistence; Sharp change to -
Btg	0.25 - 0.35 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy clay; Single grain grade of structure; Loose consistence; Clear change to -
Btg	0.35 - 0.4 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Moist; Loose consistence; Clear change to -
Bt	0.4 - 0.5 m	Olive grey (5Y5/2-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; Sandy clay; Single grain grade of structure; Wet; Loose consistence; Clear change to -
Btk	0.5 - 0.7 m	Olive grey (5Y5/2-Moist); , 7.5YR58, 10-20% , 5-15mm, Distinct; Light clay; Single grain grade of structure; Loose consistence; Gradual change to -
Bt	0.7 - 0.9 m	Olive grey (5Y5/2-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; Sandy clay; Single grain grade of structure; Loose consistence;
Bt	0.9 - 1.1 m	Dark greyish brown (2.5Y4/2-Moist); , 0-0% ; Silty clay; Single grain grade of structure; Loose consistence;
C	1.1 - 1.5 m	Light olive grey (5Y6/2-Moist); , 2.5YR66, 0-0% ; Clay loam, sandy; Single grain grade of structure; Loose consistence;

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