

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 247 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 25/07/91	Elevation: 434 metres
Map Ref.: Sheet No. : 6628-16 1:10000	Rainfall: No Data
Northing/Long.: 6161670 AMG zone: 54	Runoff: Slow
Easting/Lat.: 316000 Datum: AGD66	Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 9 metres
Elem. Type: Valley flat	Slope Category: Level
Slope: 1 %	Aspect: 100 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Rudosol	Principal Profile Form: Uc5.11
ASC Confidence:	Great Soil Group: Alluvial soil
Confidence level not specified	

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

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded
 Tall Strata - Tree, 20.01-35m, Isolated plants. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Gradual change to -
A11	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.15); ManyClear change to -
A12	0.2 - 0.3 m	Brown (10YR5/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.25); Common
A12	0.3 - 0.5 m	Brown (10YR5/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 6 (Raupach, 0.4); CommonClear change to -
A2	0.5 - 0.8 m	Yellow (10YR7/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very weak consistence; Field pH 7 (Raupach, 0.8); FewClear change to -
B	0.8 - 1 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Clayey sand; Single grain grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 7 (Raupach, 0.95); Few

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