Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **243** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	I. Hollingsworth	**Locality:**	
Date Desc.:	25/07/91	**Elevation:**	444 metres
Map Ref.:	Sheet No. : 6628-16 1:10000	**Rainfall:**	No Data
Northing/Long.:	6161725 AMG zone: 54	**Runoff:**	Slow
Easting/Lat.:	315670 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,Slightly porous, Schist

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Hills
Morph. Type:	Open depression (vale)	**Relief:**	No Data
Elem. Type:	Drainage depression	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	140 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, No sheet erosion (sheet)

Soil Classification

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

Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: Yellow podzolic soil

Site Disturbance:

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: 2-10%, stony, 200-600mm, angular tabular, Schist

Profile Morphology

A11	0 - 0.1 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5.5 (Raupach, 0.05);
A12	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.2);
A21	0.3 - 0.5 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very weak consistence; Field pH 6 (Raupach, 0.4);
A22	0.5 - 0.7 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.6);
Bt	0.7 - 0.8 m	Greyish brown (10YR5/2-Moist); , 10-20% , 5-15mm, Prominent; Medium heavy clay; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.75);
BC	0.8 - 1 m	Yellowish brown (10YR5/4-Moist); , 10-20% , 5-15mm, Distinct; Medium clay; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.95);

Morphological Notes

Observation Notes

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