Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **271** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 05/08/91
Map Ref.: 1:10000
Northing/Long.: 6163250 AMG zone: 54
Easting/Lat.: 317460 Datum: AGD66
Locality:
Elevation: 463 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Very poorly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: 2 m deep,No Data

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-
Morph. Type: Open depression (vale)
Elem. Type: Valley flat
Slope: 1 %
Pattern Type: Hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 260 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Hydrosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Um1.44
Great Soil Group: Alluvial 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:

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Silty loam; Moderate grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
A12	0.1 - 0.3 m	Very dark grey (10YR3/1-Moist); , 2-10% ; Silty loam; Moderate grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very weak consistence; Field pH 6 (Raupach, 0.2); Many, very fine (0-1mm) roots;
A12	0.3 - 0.5 m	Very dark grey (10YR3/1-Moist); , 2-10% , Distinct; Silty 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 6.5 (Raupach, 0.4); Many, fine (1-2mm) roots;
A12	0.5 - 0.7 m	Very dark grey (10YR3/1-Moist); , 2-10% , Distinct; Silty 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 6.5 (Raupach, 0.6); Common, very fine (0-1mm) roots; Gradual change to -
AC	0.7 - 0.85 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Silty 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 6.5 (Raupach, 0.7); Common, very fine (0-1mm) roots; Clear change to -
C	0.85 - 1 m	Yellowish brown (10YR5/6-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; Loose consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH 7 (Raupach, 0.95); Few, very fine (0-1mm) roots;

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