

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN      **Site ID:** 095      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	I. Hollingsworth	<b>Locality:</b>	
<b>Date Desc.:</b>	20/12/90	<b>Elevation:</b>	430 metres
<b>Map Ref.:</b>	1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6157415 AMG zone: 54	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	320210 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Undisturbed soil core, 0.8 m deep,Porous, Sandstone

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	260 degrees

**Surface Soil Condition (dry):** Firm

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Chromosol		<b>Principal Profile Form:</b>	Dy5.42
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil
Confidence level not specified			

**Site Disturbance:** No effective disturbance. Natural

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Light brownish grey (10YR6/2-Dry); , 0-0% ; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Clear, Smooth change to -
A21	0.1 - 0.2 m	Light yellowish brown (10YR6/4-Moist); Pinkish yellow (7.5YR8/2-Dry); , 0-0% ; Loamy sand; Massive grade of structure; Moderately moist; Loose consistence; Diffuse, Wavy change to -
A22	0.2 - 0.45 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); , 7.5YR56, 0-2% , 0-5mm, Faint; Loamy sand; Weak grade of structure; Moist; Very weak consistence; Clear, Smooth change to -
Bt	0.45 - 0.5 m	Light yellowish brown (2.5Y6/4-Moist); Light yellowish brown (2.5Y6/4-Dry); , 7.5YR58, 10-20% , 5-15mm, Distinct; Fine sandy clay; Single grain grade of structure; Very weak consistence; Clear, Smooth change to -
BC	0.5 - 0.6 m	Light brownish grey (2.5Y6/2-Moist); Light grey (2.5Y7/2-Dry); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 10YR78; Sandy clay loam; Strong grade of structure; Loose consistence; Clear, Smooth change to -
Btb	0.6 - 0.8 m	Light yellowish brown (2.5Y6/4-Moist); Light grey (2.5Y7/2-Dry); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 2.5YR36; Light clay; Single grain grade of structure; Loose consistence; Clear, Smooth change to -
C	0.8 - 1 m	Light yellowish brown (2.5Y6/4-Moist); Light grey (2.5Y7/2-Dry); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 2.5YR36; Clear, Smooth change to -

**Morphological Notes**

**Observation Notes**

**Site 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