

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN **Site ID:** 248 **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>	20/07/91	<b>Elevation:</b>	440 metres
<b>Map Ref.:</b>	Sheet No. : 6628-16 1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6162040 AMG zone: 54	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	316365 Datum: AGD66	<b>Drainage:</b>	Poorly drained

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, 1.1 m deep, Slightly porous, Schist

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	0 metres
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	100 degrees

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

#### Erosion:

#### Soil Classification

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

#### Site Disturbance:

**Vegetation:** Low Strata - Sod grass, <0.25m, Closed or dense. \*Species includes - None recorded

**Surface Coarse Fragments:** 0-2%, stony, 200-600mm, angular, Quartz

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach); Abundant, very fine (0-1mm) roots;
A1	0.1 - 0.3 m	Dark grey (5Y4/1-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots;
A2	0.3 - 0.5 m	Grey (5Y6/1-Moist); , 0-0% ; Sand; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots;
A2	0.5 - 0.6 m	Grey (5Y6/1-Moist); , 0-0% ; Sand; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 10-20%, medium gravelly, 6-20mm, angular, stratified, Quartz, coarse fragments; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Sharp, Irregular change to -
Bt	0.6 - 0.85 m	Greyish brown (2.5Y5/2-Moist); , 10-20% , Distinct; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear change to -
C	0.85 - 1 m	Light yellowish brown (2.5Y6/4-Moist); , 20-50% , Prominent; Sandy clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 6.5 (Raupach);

#### 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