**Project Name:** **Warren Reservoir Catchment Survey**
**Project Code:** **WRN** **Site ID:** **251** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (SA)**

## Site Information

**Desc. By:** I. Hollingsworth
**Date Desc.:** 26/07/91
**Map Ref.:** Sheet No. : 6728-20 1:10000
**Northing/Long.:** 6162060 AMG zone: 54
**Easting/Lat.:** 317050 Datum: AGD66
**Locality:**
**Elevation:** 465 metres
**Rainfall:** No Data
**Runoff:** Moderately rapid
**Drainage:** Poorly drained

## Geology

**ExposureType:** Auger boring
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Auger boring, 0.8 m deep,Porous, Schist

## Land Form

**Rel/Slope Class:** Undulating low hills 30-90m 3-10%
**Morph. Type:** Mid-slope
**Elem. Type:** Alcove
**Slope:** 8 %
**Pattern Type:** Hills
**Relief:** No Data
**Slope Category:** Gently inclined
**Aspect:** 280 degrees

## Surface Soil Condition (dry): Firm

## Erosion: Stable, Minor (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:** Gleyed podzolic soil

## Site Disturbance: Extensive clearing, for example poisoning, ringbarking

## Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded

Tall Strata - Tree, 20.01-35m, Very sparse. *Species includes - Eucalyptus camaldulensis

## Surface Coarse Fragments: No surface coarse fragments

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.1 m | Very dark greyish brown (10YR3/2-Moist); , 0-2% , Faint; Silty loam; Moderate grade of structure, 2-5 mm, Granular; 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, 0.05); Abundant, very fine (0-1mm) roots; |
| A1 | 0.1 - 0.2 m | Very dark greyish brown (10YR3/2-Moist); , 0-2% , Faint; Silty loam; Weak grade of structure, 2-5 mm, Granular; 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, 0.15); Abundant, very fine (0-1mm) roots; |
| A2 | 0.2 - 0.3 m | Greyish brown (10YR5/2-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 (Raupach, 0.25); Many, very fine (0-1mm) roots; |
| A2 | 0.3 - 0.4 m | Greyish brown (10YR5/2-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 (Raupach, 0.35); Common, very fine (0-1mm) roots; |
| A2 | 0.4 - 0.5 m | Greyish brown (10YR5/2-Moist); , 2-10% , Faint; 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; 10-20%, coarse gravelly, 20-60mm, angular, stratifiedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.45); Common, very fine (0-1mm) roots; Clear, Irregular change to - |
| Bt | 0.5 - 0.65 m | Dark greyish brown (10YR4/2-Moist); , 10-20% , Distinct; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.55); Few, very fine (0-1mm) roots; |
| C | 0.65 - 0.8 m | Grey (10YR6/1-Moist); , 0-2% ; Sand; Massive grade of structure; Sandy (grains prominent) 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, 0.65); |

## 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**