

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 299 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

| | | | |
|------------------------|-----------------------------|-------------------|----------------|
| Desc. By: | I. Hollingsworth | Locality: | |
| Date Desc.: | 08/08/91 | Elevation: | 423 metres |
| Map Ref.: | Sheet No. : 6628-26 1:10000 | Rainfall: | No Data |
| Northing/Long.: | 6151570 AMG zone: 54 | Runoff: | Very slow |
| Easting/Lat.: | 312050 Datum: AGD66 | Drainage: | Poorly drained |

Geology

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

Land Form

| | | | |
|-------------------------|---------------------|------------------------|------------|
| Rel/Slope Class: | Level plain <9m <1% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | 5 metres |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | 30 degrees |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|----------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Hydrosol | | Principal Profile Form: | Dg2.81 |
| ASC Confidence: | | Great Soil Group: | 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: No surface coarse fragments

Profile Morphology

| | | |
|----|--------------|--|
| A1 | 0 - 0.1 m | Greyish brown (10YR5/2-Moist); ; 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, Moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to - |
| A1 | 0.1 - 0.15 m | Dark greyish brown (10YR4/2-Moist); ; 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; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6 (Raupach, 0.15); Many, very fine (0-1mm) roots; Clear change to - |
| A2 | 0.15 - 0.3 m | Light grey (10YR7/1-Moist); , 2-10% , Distinct; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 2-10%, medium gravelly, 6-20mm, rounded, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.2); Common, very fine (0-1mm) roots; |
| A2 | 0.3 - 0.4 m | Light grey (10YR7/2-Moist); , 2-10% , Distinct; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 2-10%, fine gravelly, 2-6mm, rounded, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.35); Common, very fine (0-1mm) roots; Clear change to - |
| Bt | 0.4 - 0.5 m | Light grey (10YR7/2-Moist); , 20-50% , Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Ferricrete, coarse fragments; Field pH 5.5 (Raupach, 0.45); Few, very fine (0-1mm) roots; Gradual change to - |
| Bt | 0.5 - 0.65 m | Light grey (10YR7/2-Moist); , 10-20% , Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm consistence; Field pH 5.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Gradual change to - |
| Bt | 0.65 - 1 m | Light grey (10YR7/2-Moist); ; Heavy clay; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm consistence; Field pH 5.5 (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 | |
|-------|----|--------|----------------------|----|---|--------------|---------|-----|------|--|-----|---|
| m | | dS/m | Ca | Mg | K | Na | Acidity | | | | | % |
| | | | | | | Cmol (+)/kg | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | CS | Size FS | Analysis Silt | Clay |
|-------|-------|-----------|----------|---------|---------|---------|--------------|-------------|----|---------|---------------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| | | | | | | | | | | | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat | |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| | | | | | g/g - | m3/m3 | | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile