**Project Name:** **Bradshaw**
**Project Code:** **BRD** **Site ID:** **111A** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (SA)**

## Site Information

**Desc. By:** I. Hollingsworth
**Date Desc.:** 13/10/96
**Map Ref.:** Sheet No. : 4966-1 1:50000
**Northing/Long.:** 8307343 AMG zone: 52
**Easting/Lat.:** 655722 Datum: AGD66
**Locality:**
**Elevation:** 32 metres
**Rainfall:** No Data
**Runoff:** Moderately rapid
**Drainage:** Imperfectly drained

## Geology

**ExposureType:** Auger boring
**Geol. Ref.:** Paa
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Slightly porous, Siltstone

## Land Form

**Rel/Slope Class:** No Data
**Morph. Type:** No Data
**Elem. Type:** Footslope
**Slope:** 2 %
**Pattern Type:** Rises
**Relief:** 0 metres
**Slope Category:** No Data
**Aspect:** 170 degrees

**Surface Soil Condition (dry):** Hardsetting, Cryptogam surface

**Erosion:** Active, Moderate (sheet)

## Soil Classification

**Australian Soil Classification:**
Mottled Mesotrophic Brown Dermosol Thin Gravelly Loamy Clayey Deep
**Mapping Unit:** 31
**Principal Profile Form:** N/A
**ASC Confidence:**
All necessary analytical data are available.
**Great Soil Group:** N/A

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals, No effective disturbance. Natural,

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Chrysopogon fallax, Heteropogon contortus,
Themeda triandra Mid Strata - Shrub, 0.26-0.5m, Very sparse. *Species includes - Terminalia canescens, Lysiphyllum cunninghamii,
Melaleuca minutifolia
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Adansonia gregorii

**Surface Coarse Fragments:** 2-10%, coarse gravelly, 20-60mm, , Sand; No surface coarse fragments

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.05 m | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to - |
| B1 | 0.05 - 0.2 m | Dark brown (10YR3/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Gradual |
| B2 | 0.2 - 0.7 m | Dark yellowish brown (10YR4/4-Moist); , 5YR46, 2-10% , 5-15mm, Distinct; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; |

## Morphological Notes

## Observation Notes

## Site Notes

PHOTO NO; SURFACE - 1 (ROLL 3), .....

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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 | | | | | | | % |
| 0 - 0.05 | 5.2C 6A | 0.02A | | | | | | | | |
| 0.2 - 0.3 | 5.1C 6.1A | 0.01A | | | | | | | | |

| 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 | | | % | | |
| 0 - 0.05 | | | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | | | |

| 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 |
| 0 - 0.05 | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 4B2 | pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 |