

**Project Name:** Bradshaw  
**Project Code:** BRD      **Site ID:** 105B      **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>     | 11/10/96                      | <b>Elevation:</b> | 10 metres           |
| <b>Map Ref.:</b>       | Sheet No. : 4966-1    1:50000 | <b>Rainfall:</b>  | No Data             |
| <b>Northing/Long.:</b> | 8294251 AMG zone: 52          | <b>Runoff:</b>    | No runoff           |
| <b>Easting/Lat.:</b>   | 653401    Datum: AGD66        | <b>Drainage:</b>  | Imperfectly drained |

#### Geology

|                      |              |                                    |  |
|----------------------|--------------|------------------------------------|--|
| <b>ExposureType:</b> | Auger boring | <b>Conf. Sub. is Parent. Mat.:</b> | No Data  |
| <b>Geol. Ref.:</b>   | Czs          | <b>Substrate Material:</b>         | Auger boring, Slightly porous, Alcrete (bauxite) |

#### Land Form

|                         |         |                        |                |
|-------------------------|---------|------------------------|----------------|
| <b>Rel/Slope Class:</b> | No Data | <b>Pattern Type:</b>   | Alluvial plain |
| <b>Morph. Type:</b>     | No Data | <b>Relief:</b>         | 0 metres       |
| <b>Elem. Type:</b>      | Swamp   | <b>Slope Category:</b> | No Data        |
| <b>Slope:</b>           | 0 %     | <b>Aspect:</b>         | No Data        |

**Surface Soil Condition (dry):** Poached, Hardsetting

#### Erosion:

#### Soil Classification

|   |  |                                |              |
|---|--|--------------------------------|--------------|
| <b>Australian Soil Classification:</b>  |  | <b>Mapping Unit:</b>           | 13           |
| Naatric Dermosolic Redoxic Hydrosol Thin Non-gravelly Clayey Clayey Very deep |  | <b>Principal Profile Form:</b> | UF6-41       |
| <b>ASC Confidence:</b>  |  | <b>Great Soil Group:</b>       | Yellow earth |
| All necessary analytical data are available.                                  |  |                                |              |

#### Site Disturbance:

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Chrysopogon fallax, Eulalia aurea, Sorghum  
Mid Strata - Shrub, 1.01-3m, Very sparse. \*Species includes - Melaleuca viridiflora, Grevillea striata, Excoecaria parvifolia  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Melaleuca viridiflora, Eucalyptus microtheca, Eucalyptus microtheca

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

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A1  | 0 - 0.03 m    | Reddish brown (2.5YR5/4-Moist); , 7.5YR58, 2-10% , 5-15mm, Faint; , 10YR61; Medium clay; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;   |
| B2g | 0.03 - 0.25 m | Yellowish brown (10YR5/4-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10YR61; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;  |
| B2  | 0.25 - 0.6 m  | Yellowish brown (10YR5/4-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10YR51; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; |
| B2  | 0.6 - 0.9 m   | Dark yellowish brown (10YR4/4-Moist); , 10YR61, 10-20% , 5-15mm, Distinct; , 10YR58; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6 (Raupach);   |

#### Morphological Notes

#### Observation Notes

#### Site Notes

PHOTO NO; SURFACE - 21, PROFILE - , MELALEUCA VIRIDIFLORA (TREE & SHRUB), E.MICROTHERA, GREVILLEA STRIATA, EXCOECARIA GARVIFOLIA, CHRYSOPOGON FALLAX, EULALIA AUREA, SORGHUM SPP - THIN VERY GRAVELLY, CLAY, CLAY, VERY DEEP....

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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        |     |      | %   |
|       |    |        |                      | Na<br>Cmol (+)/kg |     |      |     |

|           |      |       |
|-----------|------|-------|
| 0 - 0.02  | 4.3C | 0.03A |
|           | 5.1A |       |
| 0.1 - 0.2 | 4.3C | 0.02A |
|           | 5.3A |       |

| 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   |          |    | %    |          |      |

0 - 0.02  
0.1 - 0.2

[illegible]

0 - 0.02  
0.1 - 0.2

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**Laboratory Analyses Completed for this profile**

|     |  |
|-----|--|
| 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 |