**Project Name:** DD
**Project Code:** DD **Site ID:** B197 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | G.G. Beckmann | **Locality:** | |
| **Date Desc.:** | 01/10/53 | **Elevation:** | 500 metres |
| **Map Ref.:** | Sheet No. : 9242 1:100000 | **Rainfall:** | 660 |
| **Northing/Long.:** | 151.622222222222 | **Runoff:** | Slow |
| **Easting/Lat.:** | -27.6961111111111 | **Drainage:** | Moderately well drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Soil pit | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | Tm | **Substrate Material:** | Soil pit, 0.08 m deep,Non-porous, dense, Basalt |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Rolling low hills 30-90m 10-32% | **Pattern Type:** | Low hills |
| **Morph. Type:** | Crest | **Relief:** | 46 metres |
| **Elem. Type:** | Hillslope | **Slope Category:** | No Data |
| **Slope:** | 0 % | **Aspect:** | No Data |

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Ochric Paralithic Leptic Tenosol

**ASC Confidence:**
All necessary analytical data are available.

**Mapping Unit:** N/A
**Principal Profile Form:** Um6.21
**Great Soil Group:** Lithosol

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

**Vegetation:** Low Strata - Tussock grass, , . *Species includes - Aristida species, Chloris species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus orgadophylla, Eucalyptus tessellaris

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, , Basalt

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.08 m | Dark brown (7.5YR3/2-Moist); ; Loam (Heavy); Strong grade of structure, 2-5 mm, Granular; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Field pH 7.1 (pH meter); Clear change to - |
| C | 0.08 - 0.3 m | ; Field pH 7 (pH meter); |

## Morphological Notes

C DARK REDDISH CLAY VEINS BETWEEN BASALTIC STONE AND GRAVEL

## Observation Notes

## Site Notes

DARLING DOWNS

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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 - 0.08 | 7.1H | 0.05B | 29.7K | 3.4 | 2.8 | 0 | 7.6D | | 43.5E | |
| 0.08 - 0.3 | 7H | 0.03B | | | | | | | | |

| 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 - 0.08 | | 4.93E | 1300C | 268F | 0.39B | | | 52 | 9C | 36 | 22 | 23 |
| 0.08 - 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 - 0.08 | | | | | | | | | | |
| 0.08 - 0.3 | | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15_NR | Sum of Ex. cations + Ex. acidity - Not recorded |
| 15_NR_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_H | Hydrogen Cation - meq per 100g of soil - Not recorded |
| 15_NR_K | Exch. basic cations (K++) - meq per 100g of soil - Not recorded |
| 15_NR_MG | Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded |
| 15_NR_NA | Exch. basic cations (Na++) - meq per 100g of soil - Not recorded |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 5_NR | Water soluble Chloride - Cl(%) - Not recordede |
| 6Z | Organic carbon (%) - Not recorded |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |
| 9A_NR | Total element - P(%) - Not recorded |
| P10_GRAV | Gravel (%) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_CS | Coarse sand (%) - Not recorded |
| P10_NR_FS | Fine sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |