**Project Name:** **Regional**
**Project Code:** **REG** **Site ID:** **T6** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (QLD)**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | R.F. Isbell | **Locality:** | |
| **Date Desc.:** | 19/12/63 | **Elevation:** | No Data |
| **Map Ref.:** | Sheet No. : 8158 1:100000 | **Rainfall:** | 640 |
| **Northing/Long.:** | 146.354166666667 | **Runoff:** | Very rapid |
| **Easting/Lat.:** | -19.7 | **Drainage:** | No Data |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | No Data | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | Dud | **Substrate Material:** | Sandstone |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | No Data | **Pattern Type:** | Low hills |
| **Morph. Type:** | Lower-slope | **Relief:** | 17 metres |
| **Elem. Type:** | Levee | **Slope Category:** | Moderately inclined |
| **Slope:** | 0 % | **Aspect:** | No Data |

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Eutrophic Mottled-Mesonatric Brown Sodosol
**ASC Confidence:**
All necessary analytical data are available.

**Mapping Unit:** N/A
**Principal Profile Form:** Dy3.4
**Great Soil Group:** Solodic soil

## Site Disturbance:

## Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus shirleyi

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.09 m | Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); , 0-0% ; , 0-0% ; Sandy loam; Massive grade of structure; Dry; Very strong consistence; 2-10%, Gravel, coarse fragments; |
| A2 | 0.09 - 0.27 m | Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); , 0-0% ; , 0-0% ; Sandy loam; Massive grade of structure; Dry; Very strong consistence; 20-50%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Clear change to - |
| B21 | 0.27 - 0.43 m | Yellowish brown (10YR5/8-Moist); , 10YR52; , 5YR48; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Rigid consistence; 0-2%, Sandstone, coarse fragments; Sharp change to - |
| B22 | 0.43 - 0.61 m | Dark greyish brown (10YR4/2-Moist); , 10YR58; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Dry; Rigid consistence; 20-50%, medium gravelly, 6-20mm, Sandstone, coarse fragments; Clear change to - |
| C | 0.61 - 0.71 m | ; Clear change to - |

## Morphological Notes

C Hard weathered devonian felspathic sandstone:

## Observation Notes

## Site Notes

DOTSWOOD ROAD

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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 - 0.09 | 5.9A | 0.038A | 2.2B | 0.6 | 0.5 | 0.16 | | 5C | | 3.20 |
| 0.09 - 0.27 | 6.1A | 0.017A | 2B | 0.5 | 0.39 | 0.05 | | 5C | | 1.00 |
| 0.27 - 0.43 | 6.9A | 0.089A | 7.8B | 3.5 | 0.53 | 3.5 | | 15C | | 23.33 |
| 0.43 - 0.61 | 8.1A | 0.25A | 12B | 4.8 | 0.62 | 2.4 | | 16C | | 15.00 |

| 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 - 0.09 | | 0.68D | 6B | 0.008A | 0.05A | | | 20 | 36D | 39 | 13 | 12 |
| 0.09 - 0.27 | | 0.26D | 2B | | 0.02A | | | | | | | |
| 0.27 - 0.43 | | 0.38D | 5B | 0.005A | 0.04A | | | | 27D | 11 | 11 | 52 |
| 0.43 - 0.61 | | | 16B | 0.007A | | | | | | | | |

| 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 - 0.09 | | | | | | | | | | |
| 0.09 - 0.27 | | | | | | | | | | |
| 0.27 - 0.43 | | | | | | | | | | |
| 0.43 - 0.61 | | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15A2_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15D1_CEC | CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A2 | Chloride - 1:5 soil/water extract, automated colour |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7A2 | Total nitrogen - semimicro Kjeldahl , automated colour |
| 9A1 | Total phosphorus - X-ray fluorescence |
| 9G_BSES | Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) |
| P10_GRAV | Gravel (%) |
| P10_PB_C | Clay (%) - Plummet balance |
| P10_PB_CS | Coarse sand (%) - Plummet balance |
| P10_PB_FS | Fine sand (%) - Plummet balance |
| P10_PB_Z | Silt (%) - Plummet balance |