**Project Name:** FGR
**Project Code:** FGR **Site ID:** TL29 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## Site Information

**Desc. By:** J.R. Sleeman
**Date Desc.:** 05/08/53
**Map Ref.:**
**Northing/Long.:** 142.25
**Easting/Lat.:** -17.5833333333333
**Locality:** 64km north-west of Strathmore Homestead.
**Elevation:** 45 metres
**Rainfall:** 736
**Runoff:** No Data
**Drainage:** Poorly drained

## Geology

**ExposureType:** No Data
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Unconsolidated material (unidentified)

## Land Form

**Rel/Slope Class:** Gently undulating plains <9m 1-3%
**Morph. Type:** No Data
**Elem. Type:** Plain
**Slope:** 0 %
**Pattern Type:** No Data
**Relief:** No Data
**Slope Category:** Very gently sloped
**Aspect:** No Data

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified
**Mapping Unit:** N/A
**Principal Profile Form:** N/A
**Great Soil Group:** Siliceous sand

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Eriachne armittii

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| A | 0 - 0.04 m | Light grey (2.5Y7/2-Dry); ; Fine sandy light clay (Light); Massive grade of structure; Moderate grade of structure, 50-100 mm, Platy; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to - |
| A3B1 | 0.04 - 0.15 m | Light grey (2.5Y7/2-Dry); ; Light clay; Massive grade of structure; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Abrupt, Wavy change to - |
| B21 | 0.15 - 0.44 m | Olive brown (2.5Y4/4-Dry); ; Medium heavy clay; Massive grade of structure; Very strong consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to - |
| B22 | 0.56 - 0.74 m | Olive brown (2.5Y4/4-Dry); ; Medium heavy clay; Massive grade of structure; Very strong consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to - |
| B23 | 0.74 - 1.07 m | Olive brown (2.5Y4/4-Dry); ; Silty medium clay; Massive grade of structure; Very strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to - |

## Morphological Notes

## Observation Notes

## Site Notes

CROYDON

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.04 | 6.3A | 0.011A | | | | | | | | |
| 0.04 - 0.15 | 6.8A | 0.006A | 2.5K | 3.5 | 0.2 | 1.2 | 5.2B | | | |
| 0.15 - 0.44 | 7.8A | 0.021A | 6K | 6.1 | 0.15 | 3.4 | 3.3B | | | |
| 0.56 - 0.74 | 9.3A | 0.165A | | | | | | | | |
| 0.74 - 1.07 | 9.5A | 0.329A | | | | | | | | |

| 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 - 0.04 | | 0.63D | 130B | | 0.058A | | | | 9D | 44 | 20 | 22 |
| 0.04 - 0.15 | | 0.38D | 100B | | 0.037A | | | 1 | 7D | 35 | 21 | 32 |
| 0.15 - 0.44 | <0.01C | 0.39D | | | | | | | 3D | 25 | 16 | 53 |
| 0.56 - 0.74 | 0.43C | | | | | | | 3 | | | | |
| 0.74 - 1.07 | 0.75C | | | | | | | 9 | 6D | 37 | 17 | 35 |

| 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 - 0.04 | | | | | | | | | |
| 0.04 - 0.15 | | | | | | | | | |
| 0.15 - 0.44 | | | | | | | | | |
| 0.56 - 0.74 | | | | | | | | | |
| 0.74 - 1.07 | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15_NR_CA | Exch. basic cations (Ca++) - 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 |
| 15G_C_AL1 | Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 2_LOI | Loss on Ignition (%) |
| 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 |
| 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 |