

Project Name: Regional
Project Code: REG **Site ID:** T133 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | |
|--------------------------------------------|-----------------------------------------------------------------|
| Desc. By: R.F. Isbell | Locality: .6KM south of T132 along Gunshot Creek detour: |
| Date Desc.: 15/07/70 | Elevation: No Data |
| Map Ref.: Sheet No. : 7374 1:100000 | Rainfall: 1680 |
| Northing/Long.: 142.5 | Runoff: Moderately rapid |
| Easting/Lat.: -11.766666666667 | Drainage: Imperfectly drained |

Geology

| | |
|--------------------------------------------|--------------------------------------------|
| ExposureType: Undisturbed soil core | Conf. Sub. is Parent. Mat.: No Data |
| Geol. Ref.: Jkb | Substrate Material: No Data |

Land Form

| | |
|------------------------------------------------------|----------------------------------------|
| Rel/Slope Class: Undulating rises 9-30m 3-10% | Pattern Type: Rises |
| Morph. Type: Lower-slope | Relief: 9 metres |
| Elem. Type: Hillcrest | Slope Category: Gently inclined |
| Slope: 0 % | Aspect: No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | |
|----------------------------------------------|---------------------------------------|
| Australian Soil Classification: | Mapping Unit: N/A |
| Ferric Petroferric Yellow Kandosol | Principal Profile Form: Gn2.64 |
| ASC Confidence: | Great Soil Group: Yellow earth |
| All necessary analytical data are available. | |

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

Vegetation:

Tall Strata - Heath shrub, 1.01-3m, Mid-dense. *Species includes - Grevillea glauca, Acacia species

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, rounded, Other

Profile Morphology

| | | |
|-----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A11 | 0 - 0.1 m | Very dark greyish brown (10YR3/2-Moist); Greyish brown (10YR5/2-Dry); ; Loamy sand (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; Common, fine (1-2mm) roots; Gradual change to - |
| A12 | 0.1 - 0.2 m | Brown (10YR4/3-Moist); Yellowish brown (10YR5/4-Dry); ; Sandy loam; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; FewGradual change to - |
| A2 | 0.2 - 0.3 m | Yellowish brown (10YR5/5-Moist); Brownish yellow (10YR6/5-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; |
| A2 | 0.3 - 0.4 m | Yellowish brown (10YR5/5-Moist); Brownish yellow (10YR6/5-Dry); ; Sandy loam; Massive grade of structure; Dry; Very firm consistence; Gradual change to - |
| B11 | 0.4 - 0.5 m | Strong brown (7.5YR5/6-Moist); Strong brown (7.5YR5/6-Dry); ; Coarse sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; |
| B11 | 0.5 - 0.6 m | Strong brown (7.5YR5/8-Moist); ; Coarse sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; |
| B12 | 0.6 - 0.75 m | Reddish yellow (5YR6/7-Moist); , 10YR68, 0-2% , 15-30mm, Distinct; , 10YR76, 0-2% , 15-30mm, Distinct; Coarse sandy clay loam (Light); Massive grade of structure; Moderately moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; |
| B21 | 0.75 - 0.9 m | Reddish yellow (5YR6/7-Moist); , 10YR68, 0-2% , 15-30mm, Distinct; , 10YR76, 0-2% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Very weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; |
| B21 | 0.9 - 1 m | Reddish yellow (5YR6/7-Moist); , 10YR68, 0-2% , 15-30mm, Distinct; , 10YR76, 0-2% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Very weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Clear change to - |
| B22 | 1 - 1.2 m | Reddish yellow (7.5YR6/6-Moist); ; Massive grade of structure; Moderately moist; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Thin ironpan, Weakly cemented, Nodular; Gradual change to - |

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|-----|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B22 | 1.2 - 1.5 m | Reddish yellow (7.5YR6/6-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Thin ironpan, Weakly cemented, Nodular; |
| | 1.5 - 1.8 m | Reddish yellow (7.5YR6/6-Moist); ; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; Thin ironpan, Weakly cemented, Nodular; |
| | 1.8 - 2.1 m | Red (2.5YR5/8-Moist); , 2.5Y76, 0-2% ; , 0-2% ; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; |
| | 2.1 - 2.4 m | Red (2.5YR5/8-Moist); , 2.5Y76, 0-2% ; , 0-2% ; Sandy clay loam (Heavy); Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; |
| | 2.4 - 2.7 m | Reddish yellow (5YR7/8-Moist); , 2.5Y76, 0-2% ; , 0-2% ; Massive grade of structure; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Nodules; |

Morphological Notes

Observation Notes

20-50CM A1 MATERIAL INTERMIXED:100-180CM MASS CEMENTED NODULES AND SMALL PATCHES OF 7.5YR66(M):

Site Notes

GUNSHOT

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|------------|------|--------|-------|-----------------|-----------|------|----------------------|------|------|------|
| m | | dS/m | | | | Cmol | (+)/kg | | | % |
| 0 - 0.1 | 5.3A | 0.035A | 0.07B | 0.12 | 0.1 | 0.07 | | 2C | | 3.50 |
| 0.1 - 0.2 | 5A | 0.032A | | | | | | | | |
| 0.2 - 0.3 | 5.4A | 0.035A | 0.02B | 0.04 | 0.11 | 0.05 | | 1.4C | | 3.57 |
| 0.3 - 0.4 | 5.5A | 0.035A | | | | | | | | |
| 0.4 - 0.5 | 5.6A | 0.029A | | | | | | | | |
| 0.5 - 0.6 | 5.6A | 0.026A | 0.04B | 0.15 | 0.1 | 0.04 | | 0.8C | | 5.00 |
| 0.6 - 0.75 | 5.7A | 0.029A | | | | | | | | |
| 0.75 - 0.9 | 5.4A | 0.032A | | | | | | | | |
| 0.9 - 1 | 5.4A | 0.044A | | | | | | | | |
| 1 - 1.2 | 5.5A | 0.032A | 0.04B | 0.37 | 0.11 | 0.05 | | 1.4C | | 3.57 |
| 1.2 - 1.5 | 5.6A | 0.032A | | | | | | | | |
| 1.5 - 1.8 | 5.3A | 0.041A | | | | | | | | |
| 1.8 - 2.1 | 5.5A | 0.032A | 0.04B | 0.52 | 0.14 | 0.07 | | 1C | | 7.00 |
| 2.1 - 2.4 | 5.3A | 0.04A | | | | | | | | |
| 2.4 - 2.7 | 5.3A | 0.035A | | | | | | | | |

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1 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7

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Laboratory Analyses Completed for this profile

| | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10A1 | Total sulfur - X-ray fluorescence |
| 12_HF_CU | Total element - Cu(mg/kg) - HF/HClO ₄ Digest |
| 12_HF_ZN | Total element - Zn(mg/kg) - HF/HClO ₄ Digest |
| 13C1_AL | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon |
| 15A2_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 |
| 17A1 | Total potassium - X-ray fluorescence |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7A2 | Total nitrogen - semimicro Kjeldahl , automated colour |
| 9A1 | Total phosphorus - X-ray fluorescence |
| 9B_9C | Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable |
| 9G_BSES | Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES) |
| P10_CF_C | Clay (%) - Coventry and Fett pipette method |
| P10_CF_CS | Coarse sand (%) - Coventry and Fett pipette method |
| P10_CF_FS | Fine sand (%) - Coventry and Fett pipette method |
| P10_CF_Z | Silt (%) - Coventry and Fett pipette method |
| P10_GRAV | Gravel (%) |