

Project Name: LBV
Project Code: LBV **Site ID:** B79 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|-------------------------|
| Desc. By: | C.H. Thompson | Locality: | |
| Date Desc.: | 14/11/50 | Elevation: | 39 metres |
| Map Ref.: | Sheet No. : 8358 1:100000 | Rainfall: | 850 |
| Northing/Long.: | 147.266666666667 | Runoff: | Slow |
| Easting/Lat.: | -20.0333333333333 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | PZH | Substrate Material: | Soil pit, 0.84 m deep, Non-porous, dense, Igneous rock (unidentified) |

Land Form

| | | | |
|-------------------------|-------------|------------------------|---------|
| Rel/Slope Class: | No Data | Pattern Type: | Rises |
| Morph. Type: | Lower-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | No Data |
| Slope: | 0 % | Aspect: | No Data |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|----------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Bleached-Mottled Eutrophic Yellow Chromosol | | Principal Profile Form: | Dy3.42 |
| ASC Confidence: | | Great Soil Group: | Yellow podzolic soil |
| All necessary analytical data are available. | | | |

Site Disturbance:

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|---|
| A11 | 0 - 0.1 m | Greyish brown (10YR5/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Gradual change to - |
| A12 | 0.1 - 0.2 m | Greyish brown (10YR5/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Very weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Gradual change to - |
| A2 | 0.2 - 0.28 m | Very pale brown (10YR7/3-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Clear, Irregular change to - |
| B21 | 0.28 - 0.43 m | Brownish yellow (10YR6/6-Moist); , 10YR76; , 2.5YR46; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Diffuse change to - |
| B3 | 0.43 - 0.76 m | Brownish yellow (10YR6/7-Moist); ; Light clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 6.9 (pH meter); Diffuse change to - |
| C | 0.84 - 1.37 m | Pink (7.5YR7/4-Moist); , 7.5YR52; , 10YR81; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Field pH 8.4 (pH meter); |

Morphological Notes

Observation Notes

0-28CM <6MM FERRUGINOUS NODULES ALSO:

Site Notes

BURDEKIN VALLE

Observation ID: 1

Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|------|-----------------|-----------|--------------|----------------------|-----|-------|-----|
| m | | dS/m | | | | Comol (+)/kg | | | | % |
| 0 - 0.1 | 6.4H | 0.01B | 4.6K | 2.6 | 0.44 | 0.09 | 5.2D | | 12.9E | |
| 0.1 - 0.2 | 6.3H | 0.01B | | | | | | | | |
| 0.2 - 0.28 | 6.5H | 0.01B | 2.6K | 3.7 | 0.13 | 0.32 | 4.4D | | 11.1E | |
| 0.28 - 0.43 | 6.6H | 0.01B | 4.7K | 8 | 0.19 | 1.2 | 8.1D | | 22.2E | |
| 0.43 - 0.76 | 6.9H | 0.01B | | | | | | | | |
| 0.84 - 1.37 | 8.4H | 0.02B | | | | | | | | |

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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 recorded |
| 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 |