**Project Name:** LBV
**Project Code:** LBV **Site ID:** B78 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## Site Information

**Desc. By:** C.H. Thompson
**Date Desc.:** 13/11/50
**Map Ref.:** Sheet No. : 8358 1:100000
**Northing/Long.:** 147.3
**Easting/Lat.:** -19.8333333333333
**Locality:**
**Elevation:** 21 metres
**Rainfall:** 850
**Runoff:** No runoff
**Drainage:** Poorly drained

## Geology

**ExposureType:** Soil pit
**Geol. Ref.:** CZS
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Auger boring, 2 m deep,Slightly porous, 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:** Alluvial plain
**Relief:** No Data
**Slope Category:** No Data
**Aspect:** No Data

## Surface Soil Condition (dry): Cracking

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Calcic Mesonatric Black Sodosol
**ASC Confidence:**
No analytical data are available but confidence is fair.
**Mapping Unit:** N/A
**Principal Profile Form:** Dd1.43
**Great Soil Group:** Solodic soil

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

## Vegetation: Low Strata - Tussock grass, , Mid-dense. *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

| | | |
|---|---|---|
| A1 | 0 - 0.08 m | Grey (10YR6/1-Moist); ; Loam; Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Clear change to - |
| A2 | 0.08 - 0.18 m | Light grey (10YR7/2-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Sharp, Smooth change to - |
| B21 | 0.18 - 0.28 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Weak grade of structure, Prismatic; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Gradual change to - |
| B22 | 0.28 - 0.53 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.7 (pH meter); Diffuse change to - |
| B23 | 0.53 - 0.74 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter); Diffuse change to - |
| B24 | 0.74 - 1.19 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Diffuse change to - |
| B3 | 1.24 - 1.68 m | Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); |

## Morphological Notes

**Project Name:** **LBV**
**Project Code:** **LBV** **Site ID:** **B78** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (QLD)**

**Site Notes**

BURDEKIN VALLE

**Observation Notes**

**Project Name:** LBV
**Project Code:** LBV **Site ID:** B78 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (QLD)

## 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 - 0.08 | 6.1H | 0.02B | | | | | | | | |
| 0.08 - 0.18 | 7H | 0.012B | | | | | | | | |
| 0.18 - 0.28 | 7H | 0.032B | | | | | | | | |
| 0.28 - 0.53 | 7.7H | 0.097B | | | | | | | | |
| 0.53 - 0.74 | 8.2H | 0.201B | | | | | | | | |
| 0.74 - 1.19 | 8.5H | 0.326B | | | | | | | | |
| 1.24 - 1.58 | 9H | 0.327B | | | | | | | | |

| 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 | | | 10C | | 0.15B | | | | | | | |
| 0.08 - 0.18 | | | | | | | | | | | | |
| 0.18 - 0.28 | | | | | | | | | | | | |
| 0.28 - 0.53 | | | | | | | | | | | | |
| 0.53 - 0.74 | | | | | | | | | | | | |
| 0.74 - 1.19 | | | | | | | | | | | | |
| 1.24 - 1.58 | | | | | | | | | | | | |

| 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 - 0.18 | | | | | | | | | | |
| 0.18 - 0.28 | | | | | | | | | | |
| 0.28 - 0.53 | | | | | | | | | | |
| 0.53 - 0.74 | | | | | | | | | | |
| 0.74 - 1.19 | | | | | | | | | | |
| 1.24 - 1.58 | | | | | | | | | | |

**Project Name:** **LBV**
**Project Code:** **LBV** **Site ID:** **B78** **Observation ID:** **1**
**Agency Name:** **CSIRO Division of Soils (QLD)**

**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 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 |
| 7_NR | Total nitrogen (%) - Not recorded |
| 9_NR | Available P (mg/kg) - Not recorded |