

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B80      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

|                        |                           |                   |                |
|------------------------|---------------------------|-------------------|----------------|
| <b>Desc. By:</b>       | C.H. Thompson             | <b>Locality:</b>  |                |
| <b>Date Desc.:</b>     | 14/11/50                  | <b>Elevation:</b> | 38 metres      |
| <b>Map Ref.:</b>       | Sheet No. : 8358 1:100000 | <b>Rainfall:</b>  | 850            |
| <b>Northing/Long.:</b> | 147.283333333333          | <b>Runoff:</b>    | No runoff      |
| <b>Easting/Lat.:</b>   | -20.066666666667          | <b>Drainage:</b>  | Poorly drained |

#### Geology

|                      |          |                                    |  |
|----------------------|----------|------------------------------------|--|
| <b>ExposureType:</b> | Soil pit | <b>Conf. Sub. is Parent. Mat.:</b> | No Data  |
| <b>Geol. Ref.:</b>   | CZA      | <b>Substrate Material:</b>         | Auger boring, 2 m deep, Porous, Unconsolidated material (unidentified) |

#### Land Form

|                         |         |                        |                |
|-------------------------|---------|------------------------|----------------|
| <b>Rel/Slope Class:</b> | No Data | <b>Pattern Type:</b>   | Alluvial plain |
| <b>Morph. Type:</b>     | No Data | <b>Relief:</b>         | No Data        |
| <b>Elem. Type:</b>      | Plain   | <b>Slope Category:</b> | No Data        |
| <b>Slope:</b>           | 0 %     | <b>Aspect:</b>         | No Data        |

**Surface Soil Condition (dry):** Cracking, Hardsetting

#### Erosion:

#### Soil Classification

|  |  |                                |           |
|--|--|--------------------------------|-----------|
| <b>Australian Soil Classification:</b> |  | <b>Mapping Unit:</b>           | N/A       |
| Endocalcareous Epipedal Black Vertosol |  | <b>Principal Profile Form:</b> | Ug5.16    |
| <b>ASC Confidence:</b>                 |  | <b>Great Soil Group:</b>       | Grey clay |

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - Tussock grass, , Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

|    |               |   |
|----|---------------|---|
| AB | 0 - 0.08 m    | Dark grey (10YR4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Coarse, (10 - 20) mm crack; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Clear change to -  |
| B2 | 0.08 - 0.36 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Coarse, (10 - 20) mm crack; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.4 (pH meter); Gradual change to -  |
| B2 | 0.36 - 0.84 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Coarse, (10 - 20) mm crack; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Substrate material, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Gradual change to - |
| B2 | 0.84 - 1.17 m | Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -   |
| B2 | 1.17 - 1.68 m | Light yellowish brown (2.5Y6/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.6 (pH meter);  |

#### Morphological Notes

#### Observation Notes

#### 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   |    |                 |           | Cmol (+)/kg |                      |     |      | %   |
| 0 - 0.08    | 7H   | 0.014B |    |                 |           |             |                      |     |      |     |
| 0.08 - 0.36 | 7.4H | 0.014B |    |                 |           |             |                      |     |      |     |
| 0.36 - 0.84 | 8.3H | 0.117B |    |                 |           |             |                      |     |      |     |
| 0.84 - 1.17 | 8.8H | 0.232B |    |                 |           |             |                      |     |      |     |
| 1.17 - 1.68 | 8.6H | 0.21B  |    |                 |           |             |                      |     |      |     |

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