

**Project Name:** RR  
**Project Code:** RR      **Site ID:** B571      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	See B553 for adjacent shelf profile.
<b>Date Desc.:</b>	05/09/66	<b>Elevation:</b>	350 metres
<b>Map Ref.:</b>	Sheet No. : 9143 1:100000	<b>Rainfall:</b>	635
<b>Northing/Long.:</b>	151.366666666667	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-27.266666666667	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qs	<b>Substrate Material:</b>	Undisturbed soil core, 1 m deep, Unconsolidated material

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Alluvial fan
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	6 metres
<b>Elem. Type:</b>	Fan	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous-Epihypersodic Self-Mulching Grey Vertosol		<b>Principal Profile Form:</b>	Ug5.24
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay
All necessary analytical data are available.			

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, , Sparse. \*Species includes - Aristida species  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus populnea, Acacia harpophylla, Acacia omalophylla

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

**Profile Morphology**

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Medium clay; Strong grade of structure, <2 mm, Granular; Moist; Very weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B2	0.05 - 0.1 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
B2	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.3 - 0.4 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 5-10 mm, Angular blocky; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moist; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.4 - 0.6 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); CommonGradual change to -

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B2	0.6 - 0.9 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Gradual change to -
B2	0.9 - 1 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Moist; Slightly plastic; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter);

**Morphological Notes**

**Observation Notes**

PUFF PROFILE:BELOW 10CM CARBONATE INCLUDES SOFT SEGREGATIONS:

**Site Notes**

DALBY

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[illegible]

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**Laboratory Analyses Completed for this profile**

10A_NR	Total element - S(%) - 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
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
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
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
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