

**Project Name:** DD  
**Project Code:** DD **Site ID:** B178 **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>	24/10/52	<b>Elevation:</b>	488 metres
<b>Map Ref.:</b>	Sheet No. : 9142 1:100000	<b>Rainfall:</b>	610
<b>Northing/Long.:</b>	151.46861111111111	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-27.7083333333334	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, 3 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>	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
Endocalcareous-Endohypersodic Epipedal Black Vertosol		<b>Principal Profile Form:</b>	Ug5.15
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth
All necessary analytical data are available.			

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

**Vegetation:**

Tall Strata - Tussock grass, 0.51-1m, . \*Species includes - None Recorded

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

**Profile Morphology**

AB	0 - 0.1 m	Very dark grey (10YR3/1-Dry); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Wet; Very plastic; Field pH 7.9 (pH meter); Many, fine (1-2mm) roots; Clear change to -
B2	0.1 - 0.41 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Very plastic; Field pH 8.4 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
B2	0.41 - 0.81 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Wet; Very plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.6 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B2	0.81 - 1.07 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Wet; Moderately plastic; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.7 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B2	1.09 - 1.4 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Wet; Moderately plastic; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	1.4 - 1.85 m	Brown (7.5YR4/2-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Wet; Moderately plastic; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter); Diffuse change to -
B2	1.85 - 2.36 m	Dark brown (7.5YR3/3-Moist); ; Heavy clay; Strong grade of structure, Lenticular; Moist; Slightly plastic; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9 (pH meter);

**Morphological Notes**

**Observation Notes**

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

**Site Notes**

DARLING DOWNS

**Observation ID: 1**

[illegible]

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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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - 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_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
P3A_NR	Bulk density - Not recorded
P3B_VL_15	15 BAR Moisture m <sup>3</sup> /m <sup>3</sup> - Volumetric using pressure plate