

**Project Name:** DD  
**Project Code:** DD      **Site ID:** B243      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	06/10/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9142 1:100000	<b>Rainfall:</b>	610
<b>Northing/Long.:</b>	151.317777777778	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.709722222222	<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>	Qpc	<b>Substrate Material:</b>	Auger boring, 2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<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):** Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Endocalcareous Self-Mulching 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, Mid-dense. \*Species includes - Dichanthium sericeum, Aristida species, Danthonia species

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

**Profile Morphology**

AB	0 - 0.08 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 7.2 (pH meter); Common, very fine (0-1mm) roots;
B2	0.08 - 0.3 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Field pH 7.6 (pH meter); Common, very fine (0-1mm) roots;
B2	0.3 - 0.61 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Few, very fine (0-1mm) roots;
B2	0.61 - 0.89 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter);
B3	0.97 - 1.63 m	Brown (7.5YR4/2-Moist); , 10YR64; Silty medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter);
B3	1.73 - 2.59 m	Dark brown (7.5YR3/2-Moist); , 10YR64; Silty medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.7 (pH meter);

**Morphological Notes**

**Observation Notes**

0-8CM GRANULAR GRADING TO FINE BLOCKY STRUCTURE

**Site Notes**

DARLING DOWNS

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**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	7.2H	0.037B	28.5K	18.2	2.1	0.24	5.5D			
0.08 - 0.3	7.6H	0.03B								
0.3 - 0.61	8.1H	0.054B	28K	25.3	0.67	1.6	2.7D			
0.61 - 0.89	8.4H	0.104B								
0.97 - 1.63	8.8H	0.075B								
1.73 - 2.59	8.7H	0.055B								

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**Laboratory Analyses Completed for this profile**

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 (CaCO3) - 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
6A1	Organic carbon - Walkley and Black
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m3/m3 - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate