

**Project Name:** DD  
**Project Code:** DD **Site ID:** B258 **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>	15/10/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9142 1:100000	<b>Rainfall:</b>	609
<b>Northing/Long.:</b>	151.224444444444	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-27.7458333333334	<b>Drainage:</b>	Imperfectly 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>	Auger boring, 1 m deep, 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):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Hypocalcic Subnatric Black Sodosol		<b>Principal Profile Form:</b>	Dd1.13
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solonetz
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Dichanthium sericeum, Aristida species  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus populnea, Eucalyptus tessellaris

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

#### Profile Morphology

A1	0 - 0.03 m	Very dark grey (10YR3/1-Dry); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B1	0.03 - 0.05 m	Very dark grey (10YR3/1-Dry); ; Light clay; Massive grade of structure; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B21	0.05 - 0.18 m	Very dark grey (10YR3/1-Dry); ; Medium clay; Moderate grade of structure, 100-200 mm, Columnar; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B22	0.18 - 0.32 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.32 - 0.81 m	Brown (10YR4/3-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, 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); Gradual change to -
B24	0.86 - 1.19 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.6 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

DARLING DOWNS

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0 - 0.03  
0.03 - 0.05  
0.05 - 0.18  
0.18 - 0.32  
0.32 - 0.81  
0.86 - 1.19

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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
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