

**Project Name:** DD  
**Project Code:** DD      **Site ID:** B248      **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>	11/10/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9142 1:100000	<b>Rainfall:</b>	660
<b>Northing/Long.:</b>	151.149722222222	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-27.505	<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>	Soil pit, 0.79 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):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Hypocalcic Mesonatric Grey Sodosol		<b>Principal Profile Form:</b>	Dy3.43
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solodized 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, Chloris species  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus populnea

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

#### Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; , Platy; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A2	0.04 - 0.1 m	Greyish brown (10YR5/2-Moist); White (10YR8/2-Dry); ; Fine sandy loam; Massive grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.2 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.1 - 0.25 m	Dark greyish brown (10YR4/2-Moist); , 10YR31; , 7.5YR56; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Strong grade of structure, 50-100 mm, Columnar; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.2 (pH meter); Gradual change to -
B22	0.25 - 0.46 m	Dark greyish brown (10YR4/2-Moist); , 10YR31; Sandy medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 50-100 mm, Prismatic; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.1 (pH meter); Gradual change to -
B3	0.46 - 0.74 m	Brown (10YR5/3-Moist); ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Diffuse change to -
C	0.79 - 1.07 m	Strong brown (7.5YR5/8-Moist); , 10YR31; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.9 (pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

DARLING DOWNS

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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 (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
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 m <sup>3</sup> /m <sup>3</sup> - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m <sup>3</sup> /m <sup>3</sup> - Volumetric using pressure plate