

**Project Name:** DD  
**Project Code:** DD      **Site ID:** B252      **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>	13/10/54	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9142    1:100000	<b>Rainfall:</b>	635
<b>Northing/Long.:</b>	151.160833333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-27.647222222222	<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>	Auger boring, 2 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>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Loose

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Magnesian Mottled-Hypnatic Yellow Sodosol		<b>Principal Profile Form:</b>	Dy5.61
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Soloth
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Aristida species  
Mid Strata - Shrub, , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Angophora costata, Casuarina leuhmannii

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

**Profile Morphology**

A1	0 - 0.08 m	Light brownish grey (10YR6/2-Dry); ; Fine sand; Massive grade of structure; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.08 - 0.28 m	Yellow (10YR7/5-Dry); ; Fine sand; Massive grade of structure; Moderately moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.4 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A22	0.28 - 0.81 m	Yellow (10YR7/6-Moist); ; Fine sand; Massive grade of structure; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A23	0.81 - 0.99 m	Yellow (10YR8/8-Moist); ; Fine sand; Massive grade of structure; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B1	0.99 - 1.17 m	Pale yellow (2.5Y8/4-Moist); , 10YR78, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6.1 (pH meter); Gradual change to -
B21	1.17 - 1.32 m	Yellow (10YR7/8-Moist); , 2.5Y81, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 5.7 (pH meter); Diffuse change to -
B2	1.37 - 1.73 m	Reddish yellow (7.5YR6/8-Moist); , 10YR71, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Clayey sand; Massive grade of structure; Moderately moist; Strong consistence; Densipan; Field pH 5.7 (pH meter); Diffuse change to -
B2	1.73 - 1.98 m	Light grey (10YR7/1-Moist); , 10YR82, 2-10% , 15-30mm, Faint; , 2-10% , 15-30mm, Faint; Clayey sand; Massive grade of structure; Moderately moist; Strong consistence; Densipan; Field pH 5.8 (pH meter);

**Morphological Notes**

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SITE:SLIGHT RISE IN ALLUVIAL PLAIN

**Site Notes**

DARLING DOWNS

**Observation Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
							(+)/kg		
0 - 0.08	5.6H	0.003B	0.45K	0.2	0.08	0.04	3.5D		
0.08 - 0.28	5.4H	0.004B							
0.28 - 0.81	5.8H	0.003B							
0.81 - 0.99	6.4H	0.004B							
0.99 - 1.17	6.1H	0.008B							
1.17 - 1.32	5.7H	0.017B	0.1K	2.8	0.06	1.8	4.4D		
1.37 - 1.73	5.7H	0.022B							
1.73 - 1.98	5.8H	0.026B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.08		0.69A	16C	0.019F	0.04B			0	46C	49	3 3
0.08 - 0.28											
0.28 - 0.81		0.06A						0.4	42C	53	0 6
0.81 - 0.99											
0.99 - 1.17								1	43C	38	4 16
1.17 - 1.32		0.03A		0.008F				2	57C	17	3 23
1.37 - 1.73											
1.73 - 1.98		0.02A						1	61C	26	2 11

[illegible]

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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
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