

Project Name: DD
Project Code: DD **Site ID:** B257 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	15/10/54	Elevation:	No Data
Map Ref.:	Sheet No. : 9142 1:100000	Rainfall:	609
Northing/Long.:	151.224444444444	Runoff:	Slow
Easting/Lat.:	-27.7458333333334	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qs	Substrate Material:	Auger boring, 2 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mesonatric Black Sodosol		Principal Profile Form:	Dd1.43
ASC Confidence:		Great Soil Group:	Solodic soil
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 - 0.02 m	Light brownish grey (10YR6/2-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Few, very fine (0-1mm) roots; Sharp change to -
A2	0.04 - 0.09 m	White (10YR8/1-Dry); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.09 - 0.22 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, Prismatic; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B22	0.22 - 0.43 m	Dark grey (10YR4/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 7.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B23	0.48 - 0.86 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B24	0.86 - 1.27 m	Grey (2.5Y6/1-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.7 (pH meter); Diffuse change to -
B25	1.27 - 1.68 m	Light brownish grey (10YR6/2-Moist); ; Medium clay; Massive grade of structure; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter)

Morphological Notes

Observation Notes

Site Notes

DARLING DOWNS

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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		%
						Cmol	(+)/kg		
0 - 0.02	6.6H	0.016B							
0.04 - 0.09	6.5H	0.028B	2.1K	1.9	0.08	0.54	3D		
0.09 - 0.22	6.3H	0.153B	5.8K	8	0.08	4.9	4D		
0.22 - 0.43	7.8H	0.289B							
0.48 - 0.86	9.2H	0.346B	6K	8.1	0.17	7.7			
0.86 - 1.27	8.7H	0.396B							
1.27 - 1.68	5.9H	0.272B	4.9K	9.6	0.13	7.9			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02		1.14A	46C		0.08B			0.7	29C	39	16	13
0.04 - 0.09		0.71A		0.048F	0.04B			0.5	28C	36	23	12
0.09 - 0.22		0.74A	13C	0.035F	0.06B			0.4	20C	24	16	37
0.22 - 0.43												
0.48 - 0.86	2.32C	0.11A						2	19C	22	13	44
0.86 - 1.27												
1.27 - 1.68		0.05A		0.02F				0.6	21C	24	12	44

[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
19B_NR	Calcium Carbonate (CaCO3) - 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