Project Name: DD
Project Code: DD **Site ID:** B256 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 14/10/54
Map Ref.: Sheet No. : 9142 1:100000
Northing/Long.: 151.038888888889
Easting/Lat.: -27.6166666666667
Locality:
Elevation: No Data
Rainfall: 686
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Magnesic Mottled-Subnatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dg2.81
Great Soil Group: Soloth

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

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light grey (10YR7/2-Dry); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
A21	0.08 - 0.38 m	Very pale brown (10YR8/4-Dry); ; Fine sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Few, fine (1-2mm) roots; Gradual
A22	0.38 - 0.65 m	Very pale brown (10YR8/4-Moist); ; Fine sand; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.4 (pH meter); Abrupt, Wavy change to -
B21	0.65 - 0.91 m	Light grey (2.5Y7/1-Moist); , 7.5YR68; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.9 (pH meter); Gradual change to -
B22	0.91 - 1.75 m	Brownish yellow (10YR6/8-Moist); , 2.5Y71; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6 (pH meter); Gradual change to -
B23	1.75 - 2.08 m	Light grey (2.5Y7/1-Moist); , 10YR68; Medium clay; Massive grade of structure; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 5.2 (pH meter); Diffuse change to -
B24	2.08 - 2.18 m	White (2.5Y8/1-Moist); ; Sandy medium clay; Massive grade of structure; Very firm consistence; Fragipan, Continuous, Massive; Field pH 5.4 (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 Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.08	6.3H	0.008B								
0.08 - 0.38	5.9H	0.003B								
0.38 - 0.65	6.4H	0.003B								
0.65 - 0.91	5.9H	0.045B	0.15K	3.1	0.08	0.93	2.2D			
0.91 - 1.75	6H	0.075B								
1.75 - 2.08	5.2H	0.132B								
2.08 - 2.18	5.4H	0.094B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		0.72A	11C	0.034F	0.04B			0	57C	34	3	3
0.08 - 0.38					0.01B							
0.38 - 0.65		0.02A						2	53C	41	4	2
0.65 - 0.91		0.05A						7	39C	28	4	27
0.91 - 1.75												
1.75 - 2.08		0.02A		0.038F				2	28C	21	3	46
2.08 - 2.18		0.02A						0	59C	25	3	32

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.08									
0.08 - 0.38									
0.38 - 0.65									
0.65 - 0.91									
0.91 - 1.75									
1.75 - 2.08									
2.08 - 2.18									

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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 recordede
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