Project Name: DD
Project Code: DD **Site ID:** B245 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 07/10/54
Map Ref.: Sheet No. : 9142 1:100000
Northing/Long.: 151.276388888889
Easting/Lat.: -27.5013888888889
Locality:
Elevation: No Data
Rainfall: 610
Runoff: Slow
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol
Mapping Unit: N/A
Principal Profile Form: Ug5.15

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Black earth

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

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, ,

Profile Morphology

AB	0 - 0.08 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Granular; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.2 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B2	0.08 - 0.46 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moderately 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 7.9 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.46 - 1.07 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	1.12 - 1.37 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

0-8CM GRANULAR GRADING TO BLOCKY STRUCTURE

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	7.2H	0.04B								
0.08 - 0.46	7.9H	0.096B								
0.46 - 1.07	8.6H	0.238B	29.1K	27.8	0.76	8.8				
1.12 - 1.37	8.3H	0.29B								

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		3.33A	1035C	0.195F	0.203B			0	6C	24	17	46
0.08 - 0.46												
0.46 - 1.07	0.02C	1.25A						0	3C	13	16	63
1.12 - 1.37												

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 - 0.46									
0.46 - 1.07									
1.12 - 1.37									

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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_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 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