Project Name: DD
Project Code: DD **Site ID:** B171 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: C.H. Thompson
Date Desc.: 04/07/52
Map Ref.: Sheet No. : 9242 1:100000
Northing/Long.: 151.642222222222
Easting/Lat.: -27.5077777777778
Locality:
Elevation: 448 metres
Rainfall: 660
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.41 m deep,Basalt

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: No Data
Elem. Type: Pediment
Slope: 1.75 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Ferrosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uf6.31
Great Soil Group: Euchrozem

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Very weak consistence; Field pH 6.8 (pH meter); Clear change to -
B21	0.1 - 0.25 m	Dark red (2.5YR3/5-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Very weak consistence; Moderately plastic; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.8 (pH meter); Gradual change to -
B3	0.25 - 0.41 m	Dark red (2.5YR3/5-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Very weak consistence; Moderately plastic; 0-2%, fine gravelly, 2-6mm, Basalt, coarse fragments; Field pH 7.3 (pH meter); Clear change to -
C	0.41 - 0.71 m	Reddish yellow (5YR6/6-Moist); ; Heavy clay; Weak grade of structure, 5-10 mm, Polyhedral; Moist; Very weak consistence; Moderately plastic; 20-50%, medium gravelly, 6-20mm, Basalt, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.4 (pH meter);

Morphological Notes

Observation Notes

SURFACE STRONGLY POLYHEDRAL IN VIRGIN STATE

Site Notes

DARLING DOWNS

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.8H	0.018B	24.2K	11	1.4	0.14	9.8D		46.5E	
0.1 - 0.25	6.8H	0.024B								
0.25 - 0.41	7.3H	0.025B	38.2K	15.7	0.46	0.22	7.6D		62.2E	
0.41 - 0.71	8.4H	0.054B								

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 - 0.1		2.15E	100C	0.097F	0.162B		1.40		2C	18	17	57
0.1 - 0.25					0.154B		1.10		1C	12	24	63
0.25 - 0.41				0.154F	0.122B				12C	15	19	54
0.41 - 0.71	28.7C			0.132F				21	7C	20	8	31

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 - 0.1								0.35C	
0.1 - 0.25								0.39C	
0.25 - 0.41									
0.41 - 0.71									

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
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
6Z	Organic carbon (%) - Not recorded
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_15	15 BAR Moisture m3/m3 - Volumetric using pressure plate