Project Name: DD
Project Code: DD **Site ID:** B212 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/11/53
Map Ref.: Sheet No. : 9242 1:100000
Northing/Long.: 151.686111111111
Easting/Lat.: -27.5025
Locality:
Elevation: 457 metres
Rainfall: 660
Runoff: Slow
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Tm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 1 m deep,Basalt

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): Loose

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: Gn3.12
Great Soil Group: Euchrozem

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species, Danthonia species

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus populnea, Eucalyptus orgadophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.18 m	Dark reddish brown (5YR3/4-Dry); ; Light clay; Moderate grade of structure, 2-5 mm, Granular; Fine, (0 - 5) mm crack; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.1 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.18 - 0.36 m	Dark red (2.5YR3/5-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Field pH 6.4 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B2	0.36 - 0.53 m	Dark red (2.5YR3/5-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B2	0.53 - 0.99 m	Dark red (2.5YR3/5-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, Basalt, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter);

Morphological Notes

Observation Notes

0-18CM.GRANULAR GRADING TO 5-10MM ANGULAR BLOCKY

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 - 0.18	6.1H	0.01B								
0.18 - 0.36	6.4H	0.01B								
0.36 - 0.53	6.4H	0.01B	11.8K	9.3	0.32	0.44	15.6D			
0.53 - 0.99	6.8H	0.01B								

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 - 0.18		2.43A	101C	0.216F	0.187B			0.4	1C	17	30	47
0.18 - 0.36												
0.36 - 0.53		0.7A						0.2	1C	9	12	77
0.53 - 0.99												

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 - 0.18									
0.18 - 0.36									
0.36 - 0.53									
0.53 - 0.99									

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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
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