Project Name: CL
Project Code: CL **Site ID:** B230 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 01/11/54
Map Ref.: Sheet No. : 9447 1:100000
Northing/Long.: 152.615277777778
Easting/Lat.: -25.4111111111111
Locality:
Elevation: 37 metres
Rainfall: 1143
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5.3 %
Pattern Type: Rises
Relief: 46 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Mottled-Subnatric Red Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dr3.41
Great Soil Group: Lateritic podzolic soil

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

Vegetation:

Low Strata - Tussock grass, , Closed or dense. *Species includes - None recorded
Mid Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Moderate grade of structure, Granular; Moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A2	0.06 - 0.23 m	Pale brown (10YR6/3-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Angular blocky; Massive grade of structure; Moist; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
B1	0.23 - 0.35 m	Yellowish brown (10YR5/6-Moist); ; Sandy loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Massive grade of structure; Moist; Weak consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.7 (pH meter); Clear change to -
B2	0.38 - 0.66 m	Dark red (10R3/6-Moist); , 2.5Y63, 20-50% , 0-5mm, Prominent; , 2.5Y61, 20-50% , 0-5mm, Prominent; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.9 (pH meter); Gradual change to -
B2	0.66 - 1.02 m	Dark red (10R3/6-Moist); , 2.5Y63, 20-50% , 0-5mm, Prominent; , 2.5Y61, 20-50% , 0-5mm, Prominent; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH meter); Diffuse change to -
B3	1.07 - 1.27 m	Yellowish brown (10YR5/4-Moist); , 10YR81, 20-50% , 0-5mm, Prominent; , 10R36, 20-50% , 0-5mm, Prominent; Heavy clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

0-6CM POROUS GRANULAR

Site Notes

HOWARD

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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 - 0.06	5.9H	0.015B	1.5K	1.3	0.15	0.4	3.9D			
0.06 - 0.23	5.7H	0.01B	0.15K	0.96	0.02	0.35	3.1D			
0.23 - 0.35	5.9H	0.011B								
0.38 - 0.66	5.6H	0.016B	0K	4.2	0.04	0.58	10.3D			
0.66 - 1.02	5.5H	0.021B								
1.07 - 1.27	5.1H	0.028B				1029				

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 - 0.06		2.61A	7C	0.019F	0.11B			5	16C	54	12	14
0.06 - 0.23		0.84A			0.05B			26	23C	51	10	15
0.23 - 0.35		0.45A						41	20C	45	10	25
0.38 - 0.66		0.21A		0.023F				11	9C	25	12	54
0.66 - 1.02												
1.07 - 1.27								6	16C	10	19	54

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 - 0.06										
0.06 - 0.23										
0.23 - 0.35										
0.38 - 0.66										
0.66 - 1.02										
1.07 - 1.27										

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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