Project Name: NAR
Project Code: NAR **Site ID:** B759 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 12/05/71
Map Ref.: Sheet No. : 9046 1:100000
Northing/Long.: 150.902777777778
Easting/Lat.: -25.7041666666667
Locality:
Elevation: 230 metres
Rainfall: 716
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 2.8 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.41
Great Soil Group: Yellow podzolic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Bothriochloa decipiens, Heteropogon contortus

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.7 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A21	0.2 - 0.5 m	Dark yellowish brown (10YR4/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
A22	0.5 - 0.6 m	Strong brown (7.5YR5/5-Moist); Very pale brown (10YR7/4-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B2	0.6 - 0.9 m	Strong brown (7.5YR5/6-Moist); , 2.5YR46, 20-50% , 5-15mm, Distinct; , 10YR63, 20-50% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B3	0.9 - 1 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 20-50% , 0-5mm, Distinct; , 7.5YR84, 20-50% , 0-5mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
C	1 - 1.1 m	Brownish yellow (10YR6/6-Moist); , 10YR63, 20-50% , 0-5mm, Distinct; , 10YR85, 20-50% , 0-5mm, Distinct; Clay loam; Massive grade of structure; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter);

Morphological Notes

Observation Notes

90-110 STRONG WEATHERING MINERAL SPECKLLING. 100-110 MUCH MICA. GRAVEL FELDSPAR DOMINANT WITH QUARTZ.

Site Notes

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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 - 0.2	8.1H	0.06B	6.39K	1.02	0.39	0.2	1.02D			
0.2 - 0.5										
0.5 - 0.6										
0.6 - 0.9	6.8H	0.03B	5.4K	9.8	0.63	0.38	4.2D			
0.9 - 1										
1 - 1.1										

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 - 0.2		2.35A	132B	410F	0.137B	3.4B		17	55C	26	6	8
0.2 - 0.5												
0.5 - 0.6												
0.6 - 0.9				350F		2.8B		10	36C	15	6	47
0.9 - 1												
1 - 1.1												

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 - 0.2									
0.2 - 0.5									
0.5 - 0.6									
0.6 - 0.9									
0.9 - 1									
1 - 1.1									

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Laboratory Analyses Completed for this profile

10A_NR	Total element - S(%) - 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
17A_NR	Total element - K(%) - 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
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
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