Project Name: NAR
Project Code: NAR **Site ID:** B731 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 10/05/71
Map Ref.: Sheet No. : 9046 1:100000
Northing/Long.: 150.902777777778
Easting/Lat.: -25.7041666666667
Locality:
Elevation: 250 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: 5.7 %
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:
Mottled Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy3.21
Great Soil Group: Yellow podzolic soil

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

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

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR4/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.7 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.4 m	Reddish brown (5YR5/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.7 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A2	0.4 - 0.54 m	Yellowish red (5YR5/6-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Irregular change to -
B1	0.54 - 0.6 m	Strong brown (7.5YR5/7-Moist); , 2.5YR46; Coarse sandy medium clay; Massive grade of structure; Dry; Firm consistence; 10-20%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B2	0.6 - 0.8 m	Strong brown (7.5YR5/7-Moist); , 5YR46, 10-20% , 5-15mm, Distinct; , 10YR58, 10-20% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, Prismatic; 10-20 mm, Angular blocky; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B3	0.8 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 10YR52, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Light clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Gradual change to -
C	0.9 - 1.1 m	Yellowish brown (10YR5/7-Moist); , 10YR52, 20-50% , 0-5mm, Prominent; , 5YR46, 20-50% , 0-5mm, Prominent; Clay loam, coarse sandy; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

STRONG WEATHERING MINERAL SPECKLING BELOW 60CM. GRAVELS DOMINANTLY FELDSPAR WITH QUARTZ.

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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	6.7H	0.01B	4.6K	1.2	0.22	0.02	1.4D			
0.2 - 0.4										
0.4 - 0.54										
0.54 - 0.6										
0.6 - 0.8	6.4H	<0.01B	3.6K	10.4	0.35	0.46	5.3D			
0.8 - 0.9										
0.9 - 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		1.51A	24B	250F	0.081B	3.1B		23	55C	32	9	6
0.2 - 0.4												
0.4 - 0.54												
0.54 - 0.6												
0.6 - 0.8				160F		1.9B		18	32C	19	8	41
0.8 - 0.9												
0.9 - 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 - 0.4									
0.4 - 0.54									
0.54 - 0.6									
0.6 - 0.8									
0.8 - 0.9									
0.9 - 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