Project Name: NAR
Project Code: NAR **Site ID:** B714 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	09/05/71	**Elevation:**	250 metres
Map Ref.:	Sheet No. : 9046 1:100000	**Rainfall:**	0
Northing/Long.:	150.902777777778	**Runoff:**	No Data
Easting/Lat.:	-25.7041666666667	**Drainage:**	No Data

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	PRt	**Substrate Material:**	Auger boring, 0.8 m deep,Unconsolidated material (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Mesonatric Grey Sodosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy3.42
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus, Cymbopogon refractus
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus tessellaris

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam (Heavy); Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.2 (pH meter); Many, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.4 m	Light brownish grey (10YR6/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.7 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
A22	0.4 - 0.62 m	Very pale brown (10YR7/3-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B2	0.62 - 0.8 m	Greyish brown (10YR5/2-Moist); , 10YR58, 0-2% , 5-15mm, Distinct; , 2.5YR45, 0-2% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
D	0.8 - 1.1 m	Reddish yellow (7.5YR6/6-Moist); , 2.5Y63, 20-50% , 15-30mm, Prominent; , 10R54, 20-50% , 15-30mm, Prominent; Fine sandy clay loam (Light); Massive grade of structure; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

SUBSTRATE COLLUVIUM FROM ADAMELLITE OVER ALTERED MATERIAL.

Site Notes

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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	6.2H	0.01B	1.8K	1.8	0.3	0.11	3.4D			
0.1 - 0.4										
0.4 - 0.62										
0.62 - 0.8	7.5H	0.1B	2.2K	8.5	0.17	2.1	1.5D			
0.8 - 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 - 0.1		1.11A	16B	200F	0.061B	4B		11	60C	22	10	8
0.1 - 0.4												
0.4 - 0.62												
0.62 - 0.8				130F		3.4B		21	38C	23	8	32
0.8 - 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 - 0.1										
0.1 - 0.4										
0.4 - 0.62										
0.62 - 0.8										
0.8 - 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