Project Name: NAR
Project Code: NAR **Site ID:** B735 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	11/05/71	**Elevation:**	240 metres
Map Ref.:	Sheet No. : 9046 1:100000	**Rainfall:**	716
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, 2 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	3.5 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Hypercalcic Black Dermosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dd1.13
Great Soil Group: Solodic 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); ; Silty clay loam; Massive grade of structure; Dry; Firm consistence; Field pH 5.8 (pH meter); Common, very fine (0-1mm) roots; Clear change to -
B1	0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Silty light clay (Heavy); Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
B21	0.3 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
B22	0.7 - 1 m	Very dark brown (7.5YR2/2-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B23	1 - 1.2 m	Very dark greyish brown (10YR3/2-Moist); , 7.5YR54, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B24	1.2 - 1.8 m	Yellowish brown (10YR5/4-Moist); , 10YR41, 20-50% , 5-15mm, Distinct; , 10YR64, 20-50% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	1.8 - 2.1 m	Brown (7.5YR5/4-Moist); , 2.5Y42, 20-50% , 5-15mm, Distinct; , 10YR22, 20-50% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter);

Morphological Notes

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Observation Notes

SUBSTRATE FINE TEXTURED AUBURN ALLUVIUM. GRAVEL BELOW 120CM QUARTZ & FELDSPAR FROM ADAMELLITE.

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 - 0.2	6H	0.02B	4.2K	2.7	0.72	0.31	12.6D			
0.2 - 0.3	6.6H	0.01B	3.6K	3.4	0.39	1.25	11.2D			
0.3 - 0.7										
0.7 - 1										
1 - 1.2										
1.2 - 1.8										
1.8 - 2.1										

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		2.62A	50B	640F	0.168B	1.8B		0.1	4C	32	30	28
0.2 - 0.3				380F		1.8B		0.1	3C	33	28	38
0.3 - 0.7												
0.7 - 1												
1 - 1.2												
1.2 - 1.8												
1.8 - 2.1												

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 - 0.3										
0.3 - 0.7										
0.7 - 1										
1 - 1.2										
1.2 - 1.8										
1.8 - 2.1										

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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