Project Name: NAR
Project Code: NAR **Site ID:** B789 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 23/06/71
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, 1.7 m deep,Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Open depression (vale)
Elem. Type: No Data
Slope: 1.8 %
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:
Mottled Eutrophic Grey Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Callitris species, Fimbristylis dichotoma
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Weak grade of structure, 5-10 mm; Moist; Weak consistence; Field pH 6 (pH meter); Many, very fine (0-1mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; Field pH 6 (pH meter); Common, very fine (0-1mm) roots; Abrupt change to -
B21	0.2 - 0.4 m	Dark grey (10YR4/1-Moist); , 5YR46, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 6.1 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B22	0.4 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); , 7.5YR44, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Weak grade of structure, 5-10 mm, Polyhedral; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Gradual change to -
B31	0.8 - 1 m	Olive (5Y5/3-Moist); , 2.5Y42, 10-20% , 5-15mm, Distinct; , 10YR31, 10-20% , 5-15mm, Distinct; Light medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 7.6 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B32	1 - 1.2 m	Olive grey (5Y5/2-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10YR31, 10-20% , 5-15mm, Distinct; Light medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8 (pH meter); Diffuse change to -
B33	1.2 - 1.7 m	Olive grey (5Y5/2-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10YR58, 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 8.3 (pH meter); Clear change to -
C	1.7 - 2 m	Light brownish grey (2.5Y6/3-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 10YR51, 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, Gravel, coarse fragments; Field pH 8.1 (pH meter);

Morphological Notes

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Observation Notes

SUBSTRATE AUBURN RIVER TERRACE ALLUVIUM. A1 AND B21 SOME 10YR7/2 AND 10YR5/8 FLECKING.

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 - 0.1	6.1H	0.02B	7K	4.6	0.55	0.26	6.3D			
0.1 - 0.2										
0.2 - 0.4	6.7H	0.05B	13.1K	12.2	0.55	1.4	7.4D			
0.4 - 0.8										
0.8 - 1										
1 - 1.2										
1.2 - 1.7										
1.7 - 2										

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		2.48A	18B	360F	0.137B	2.2B		5	7C	40	15	34
0.1 - 0.2												
0.2 - 0.4				590F		2B		6	20C	14	12	52
0.4 - 0.8												
0.8 - 1												
1 - 1.2												
1.2 - 1.7												
1.7 - 2												

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 - 0.2									
0.2 - 0.4									
0.4 - 0.8									
0.8 - 1									
1 - 1.2									
1.2 - 1.7									
1.7 - 2									

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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