Project Name: NAR

Project Code: NAR Site ID: B811 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:G.D. HubbleLocality:Catchment 4.Date Desc.:05/03/73Elevation:240 metres

Map Ref.: Sheet No.: 9046 1:100000 **Rainfall:** 716

Northing/Long.: 150.91055555556 Runoff: Moderately rapid Easting/Lat.: -25.693333333333 Drainage: Imperfectly drained

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 1 m

deep,Unconsolidated material

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:30 metresElem. Type:FootslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABleached-Mottled Eutrophic Brown ChromosolPrincipal Profile Form:Dy3.81

ASC Confidence: Great Soil Group: Gleyed podzolic

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

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

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

Surface Coarse Fragments:

Profile Morphology								
A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam (Light); Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -						
A12	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -						
A13	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -						
A14	0.3 - 0.4 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -						
A2	0.4 - 0.6 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Clear change to -						
A2	0.6 - 0.75 m	Brown (10YR5/3-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Gradual change to -						
A2	0.75 - 0.9 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;						
A2	0.9 - 1 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -						
A2	1 - 1.2 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;						

Projec	ct Name: NA ct Code: NA cy Name: CS	
A2	1.2 - 1.31 m	Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Abrupt change to -
B2	1.31 - 1.5 m	Strong brown (7.5YR5/6-Moist); , 2.5Y63, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Coarse sandy clay loam; Massive grade of structure; Wet; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Gradual change to -
B2	1.5 - 1.65 m	Strong brown (7.5YR5/6-Moist); , 10YR62, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Gradual change to -
В3	1.65 - 1.8 m	Yellowish brown (10YR5/6-Moist); , 10YR72, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Weak grade of structure, 50-100 mm, Angular blocky; Moist; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans, Weakly cemented; Gradual change to -
В3	1.8 - 1.98 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2%), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Other pans, Weakly cemented; Gradual change to -
В3	1.98 - 2.1 m	Yellowish brown (10YR5/4-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 7.5YR56, 20-50% , 5-15mm, Distinct; Coarse sandy loam; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Other pans, Weakly cemented; Clear change to -
В3	2.1 - 2.21 m	Yellowish red (5YR4/6-Moist); , 2.5Y62, 20-50% , 15-30mm, Distinct; , 7.5YR56, 20-50% , 15-30mm, Distinct; Clayey coarse sand; Massive grade of structure; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Other pans, Weakly cemented;
D	2.21 - 2.3 m	Yellowish red (5YR4/6-Moist); , 2.5Y62, 20-50% , 15-30mm, Distinct; , 7.5YR84, 20-50% , 15-30mm, Distinct; Clayey coarse sand; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. D HORIZON ADAMELLITE IN SITU. QUARTZ WITH SOME COARSE FELDSPARS THROUGHOUT. 165-221CM BRITTLE PAN LIKE DENSIPAN WITH SOME LBG ILLUVIAL CUTANS ON INFREQUENT CLEAVAGES. LAYERS RENUMBERED 7-10-92

Site Notes

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NAR Site ID: B811 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

Depth Depth	pH	1:5 EC		hangeable			changeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmol (+)/	Acidity kg				•	%
0 - 0.1 0.1 - 0.2	6.3H 6.4H	<0.02A <0.02A	1.7K	0.38	0.13	0	4.7D					
0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.75 0.75 - 0.9 0.9 - 1 1 - 1.2	6.4H 6.5H 6.6H 6.6H 6.8H 6.8H	<0.02A <0.02A <0.02A <0.02A <0.02A <0.02A <0.02A	0.84K	0.4	0.07	0.02	5D 6.6D					
1.2 - 1.31 1.31 - 1.5 1.5 - 1.65	6.7H 5.6H 4.8H	<0.02A <0.02A 0.039A	1K	4.1	0.15	0.28						
1.65 - 1.8 1.8 - 1.98 1.98 - 2.1 2.1 - 2.21 2.21 - 2.3	4.5H 4.5H 4.7H 5H 5.3H	0.094A 0.154A 0.136A 0.062A 0.039A	0.71K 1.3K	4 5.6	0.07 0.14	0.41 0.63						
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pai GV	rticle S	Size A FS	nalysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		,
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4		0.4A 0.24A 0.15A	8B 2B 2B	260F	0.03 0.03 0.01	2B	3 1.40 1.10 1.50 1.60	16 19 19 15	65C 57C 67C 73C	24 31 23 18	8 8 7 7	3 4 3 3
0.4 - 0.6 0.6 - 0.75 0.75 - 0.9		0.07A	3B	170F	0.00)8B 4.12I	3 1.60 1.80 1.60	17 20 29	61C	29	7	3
0.9 - 1 1 - 1.2		0.04A	3B		0.00)8B	1.50 1.60	41 28	63C	27	7	3
1.2 - 1.31 1.31 - 1.5 1.5 - 1.65 1.65 - 1.8		0.04A	3B	240F	0.00	3.66l	1.90 3 1.90 1.90 1.80	42 23 27 36	62C 54C 58C 46C	29 22 19 28	9 4 5 9	4 21 20 17
1.8 - 1.98 1.98 - 2.1			1B	200F		3.221		28	51C	18	11	21
2.1 - 2.21 2.21 - 2.3								21 30	52C 64C	21 21	18 11	11 6
Depth	COLE					Vater Conte			K sat	: I	K unsat	
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h	1	mm/h	
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.75 0.75 - 0.9												

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0.9 - 1 1 - 1.2 1.2 - 1.31 1.31 - 1.5 1.5 - 1.65 1.65 - 1.8 1.8 - 1.98 1.98 - 2.1 2.1 - 2.21 2.21 - 2.3

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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
15_NR_MG
15_NR_MG
15_NR_NA
Exch. basic cations (K++) - meq per 100g of soil - Not recorded
Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

17A_NR Total element - K(%) - Not recorded

2A1 Air-dry moisture content
3A1 EC of 1:5 soil/water extract
4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - CI(%) - 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
P10_NR_FS
P10_NR_FS
P10_NR_Z
P3A_NR
Coarse sand (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - Not recorded