Project Name: NAR

Project Code: NAR Site ID: B812 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

 Desc. By:
 G.D. Hubble
 Locality:
 Catchment 4.

 Date Desc.:
 05/03/73
 Elevation:
 240 metres

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

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

 Northing/Long.:
 150.910555555556
 Runoff:
 Slow

Geology

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

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 2 m

deep,Unconsolidated material

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:No DataRelief:30 metresElem. Type:Valley flatSlope Category:No DataSlope:3 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

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

ASC Confidence: Great Soil Group: Gleyed podzolic

All necessary analytical data are available.

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

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

Medium (2 -6 mm), Nodules; Clear change to -

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

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots; Abrupt change to -
A12	0.04 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Many, very fine (0-1mm) roots;
A12	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR62; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); , 10YR63; Coarse sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A2	0.3 - 0.45 m	Brown (10YR5/3-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
A2	0.45 - 0.6 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots;
A2	0.6 - 0.8 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
A2	0.8 - 0.9 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
A2	0.9 - 1.1 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous,

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А3	1.1 - 1.2 m	Pale brown (10YR6/3-Moist); , 10YR54, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Clayey coarse sand; Massive grade of structure; Wet; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Clear change to -
B1	1.2 - 1.44 m	Strong brown (7.5YR5/5-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Wet; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Clear change to -
B2	1.44 - 1.5 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% , 5-15mm, Distinct; , 7.5YR56, 20-50% , 5-15mm, Distinct; Coarse sandy medium clay; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations;
B2	1.5 - 1.6 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% , 5-15mm, Distinct; , 7.5YR56, 20-50% , 5-15mm, Distinct; Coarse sandy medium clay; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Clear change to -
B2	1.6 - 1.8 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 7.5YR56, 20-50% , 15-30mm, Prominent; Coarse sandy medium clay; Massive grade of structure; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2%), Manganiferous, Medium (2 -6 mm), Soft segregations;
В3	1.8 - 2.04 m	Greyish brown (10YR5/2-Moist); , 7.5YR56, 20-50% , 15-30mm, Distinct; , 2.5Y63, 20-50% , 15-30mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Clear change to -
B3	2.04 - 2.1 m	Greyish brown (10YR5/2-Moist); , 10YR56, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Sandy light clay (Heavy); Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
В3	2.1 - 2.23 m	Greyish brown (10YR5/2-Moist); , 10YR66, 20-50% , 15-30mm, Distinct; , 7.5YR56, 20-50% , 15-30mm, Distinct; Sandy medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Clear change to -
B3	2.23 - 2.4 m	Light brownish grey (2.5Y6/3-Moist); , 5YR58, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Clear change to -
D	2.4 - 2.45 m	Greyish brown (10YR5/2-Moist); , 5YR58, 10-20% , 5-15mm, Distinct; , 10YR84, 10-20% , 5-15mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. GRAVELS DOMINANTLY QUARTZ WITH SOME 6-20MM FELDSPARS THROUGHOUT. 180-240CM POSSIBLY D HORIZON, MODERATELY PEDAL WITH DISTINCT ARGILLANS AND BUNDLES OF FINE ROOTS ON PED SURFACES. 240-245CM

Site Notes

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NAR

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Laboratory	1621 KE	zsuits.										
Depth	рН	1:5 EC		nangeable	Cations	Exc	changeable	CEC	E	CEC	E	SP
			Ca I	Иg	K	Na	Acidity				_	
m		dS/m				Cmol (+)/k	9				9	6
0 - 0.04	5.9H	<0.03A	_	0.69	0.29	0.02	6.1D					
0.04 - 0.1	6.1H	<0.03A		0.54	0.14	0	2.4D					
0.1 - 0.2	6.2H	<0.03A										
0.2 - 0.3	6.4H	<0.03A										
0.3 - 0.45	6.6H	<0.03A	0.61K	0.49	0.09	0.06	1.2D					
0.45 - 0.6	6.7H	<0.03A										
0.6 - 0.8	6.7H	<0.03A										
0.8 - 0.9	6.8H	<0.03A										
0.9 - 1.1	6.8H	<0.03A										
1.1 - 1.2	6.7H	<0.03A										
1.2 - 1.44	6.9H	<0.03A										
1.44 - 1.5	6.3H	<0.03A										
1.5 - 1.6	5.7H	<0.03A										
1.6 - 1.76	5.711 5.2H	0.055A		5.6	0.32	0.32	6.3D					
	5.211 5H			5.0	0.32	0.32	0.30					
1.84 - 2.04	4.9H	0.068A										
2.04 - 2.1	-	0.084A		45.4	0.05	0.0	0.00					
2.1 - 2.23	5H	0.08A		15.4	0.65	2.2	9.2D					
2.23 - 2.4	5.1H	0.068A	١.									
2.4 - 2.45	5.2H	0.08A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size /	Analysis	
		C	Р	Р	N	K	Density	G۷	CS	FS	Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		1.27A	27B	280F	0.09	96B 3.84B		11	58C	22	15	5
0.04 - 0.1		0.36A	3B	170F	0.0	3B 4.12B		12	54C	26	15	5
0.1 - 0.2		0.25A	2B		0.02	23B		5	56C	25	16	5
0.2 - 0.3		0.35A	2B		0.01	18B		7	62C	20	13	5
0.3 - 0.45								28	70C	17	11	4
0.45 - 0.6		0.08A	4B	160F	0.00	08B 4.3B						
0.6 - 0.8												
0.8 - 0.9		0.05A	4B		0.00)5B		36	71C	18	9	3
0.9 - 1.1		0.007			0.00	,,,,		00			ŭ	Ū
1.1 - 1.2								32	64C	22	7	8
1.2 - 1.44		0.06A	3B	380F	0.01	I5B 3.76B		31	75C	8	5	12
1.44 - 1.5		0.0071	OB	0001	0.01	0.700		01	,,,,	O	Ü	12
1.5 - 1.6												
1.6 - 1.76								21	69C	5	4	24
1.84 - 2.04							1.50	31	39C	21	11	31
				480F		2.02B	1.40	5	390	21	11	31
2.04 - 2.1				4000		2.026	-	5 5	17C	27	11	37
2.1 - 2.23							1.50		_	37		
2.23 - 2.4							1.80	18	45C	25	8	24
2.4 - 2.45								40	55C	15	9	22
			_									
Depth	COLE					Vater Conter			K sa	t	K unsat	
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar g - m3/m:	1 Bar	5 Bar 15	Bar	mm/l	h	mm/h	
1/1				9/	9 - 1113/111	J			11111/1	•	11111/11	

0 - 0.04 0.04 - 0.1 0.1 - 0.2

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0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.8 0.8 - 0.9

0.8 - 0.9 0.9 - 1.1 1.1 - 1.2 1.2 - 1.44 1.44 - 1.5 1.5 - 1.6 1.6 - 1.76 1.84 - 2.04 2.04 - 2.1 2.1 - 2.23 2.23 - 2.4 2.4 - 2.45

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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_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