Project Name: NAR

Project Code: NAR Site ID: B799 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

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

 Date Desc.:
 20/09/72
 Elevation:
 235 metres

 Man Defension:
 Cheat No. 2046, 44400000
 Painfalls
 746

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

 Northing/Long.:
 150.9125
 Runoff:
 Slow

Easting/Lat.: -25.6952777777778 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:No DataRelief:30 metresElem. Type:Valley flatSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMagnesic Mottled-Subnatric Brown SodosolPrincipal Profile Form:Dy3.82

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									
A1	0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Coarse sandy loam (Light); Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -							
A2	0.04 - 0.1 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/1-Dry); ; Loamy coarse sand; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -							
A2	0.1 - 0.2 m	Light brownish grey (10YR6/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Diffuse change to -							
A2	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Diffuse change to -							
A2	0.3 - 0.6 m	Pale brown (10YR6/3-Moist); Light grey (10YR7/1-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -							
A2	0.6 - 0.9 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Few, very fine (0-1mm) roots; Diffuse change to -							
A3	0.9 - 1.2 m	Yellowish brown (10YR5/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -							
A3	1.2 - 1.4 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); ; Clayey coarse sand; Massive grade of structure; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Gradual change to -							

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B2	1.4 - 1.5 m	Yellowish brown (10YR5/5-Moist); , 7.5YR56, 10-20% , 15-30mm, Distinct; , 10YR42, 10-20% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B2	1.5 - 1.8 m	Strong brown (7.5YR5/6-Moist); , 10YR52, 20-50% , 15-30mm, Prominent; , 10YR56, 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B2	1.8 - 1.9 m	Strong brown (7.5YR5/6-Moist); , 10YR54, 20-50% , 15-30mm, Distinct; , 10YR62, 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; Densipan, Moderately cemented, Continuous; Gradual change to -
B2	1.9 - 2.1 m	Strong brown (7.5YR5/6-Moist); , 10YR64, 20-50% , 15-30mm, Distinct; , 10YR52, 20-50% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Densipan, Moderately cemented, Continuous;
B2	2.1 - 2.4 m	Strong brown (7.5YR5/7-Moist); , 10YR58, 20-50% , 15-30mm, Distinct; , 10YR72, 20-50% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Densipan, Moderately cemented, Continuous; Gradual change to -
B2	2.4 - 2.48 m	Strong brown (7.5YR5/7-Moist); , 10YR58, 20-50% , 15-30mm, Distinct; , 10YR72, 20-50% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Densipan, Moderately cemented, Continuous;
D	2.48 - 2.62	m ;

Morphological Notes

D Speckled weathered rock fine grained differentiate in situ.

Observation Notes

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. GRAVELS BOTH QUARTZ AND FELDSPARS. 140-180CM SOME CLAY SKINS IN CAVITIES. 180-248CM GREY BROWN ILLUVIAL CLAY AND PARTINGS IN PAN. LAYERS RENUMBERED 6-10-92

Site Notes

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Project Name: Project Code: Agency Name: NAR Site ID: B799 Observation ID: 1

CSIRO Division of Soils (QLD)

Laboratory Test Results:

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	Depth	pН	1:5 EC		hangeable			xchangeable	CEC	ı	ECEC	E	SP
	m		dS/m	Ca I	Mg	K	Na Cmol (+)/	Acidity kg				ç	%
	0 - 0.04	5.7H	0.041A	1.9K	0.56	0.2	0.07	2.3D					
	0.04 - 0.1	5.5H	<0.03A	0.52K	0.42	0.1	0.06	0.4D					
	0.1 - 0.2	5.5H	<0.03A										
	0.2 - 0.3	5.9H	<0.03A										
	0.3 - 0.6	6.4H	<0.03A										
	0.6 - 0.9	6.6H	<0.03A	0.35K	0.76	0.09	0.07	0D					
	0.9 - 1.2	6.7H	<0.03A										
	1.2 - 1.4	6.6H	<0.03A										
	1.4 - 1.5	6.3H	<0.03A										
	1.5 - 1.8	5.8H	0.035A	0.42K	3.8	0.16	0.33	0.9D					
	1.8 - 1.9	5.8H	0.046A										
	1.9 - 2.1	6.4H	0.062A										
	2.1 - 2.4	7.6H	0.062A	1.1K	8.9	0.2	1	0D					
	2.4 - 2.48	7.9H	0.08A										
	2.48 - 2.62	8.3H	0.053A										
	Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A FS	nalysis Silt	
	m	%	%	mg/kg	%	%	%	Mg/m3			%		
	0 - 0.04		1.35A	36B	250F	0.0	73B 4.08	B 1.40		65C	22	8	5
	0.04 - 0.1		0.41A	7B	130F	0.03	31B 4.06	B 1.50		59C	26	13	2
	0.1 - 0.2		0.19A			0.02	23B	1.60	8				
	0.2 - 0.3		0.15A	5B		0.0	15B	1.50	15	63C	23	11	1

m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	%	Siit	Clay
0 - 0.04		1.35A	36B	250F	0.073B	4.08B	1.40		65C	22	8	5
0.04 - 0.1		0.41A	7B	130F	0.031B	4.06B	1.50		59C	26	13	2
0.1 - 0.2		0.19A			0.023B		1.60	8				
0.2 - 0.3		0.15A	5B		0.015B		1.50	15	63C	23	11	1
0.3 - 0.6							1.70	31				
0.6 - 0.9			3B	100F		4.48B	1.10	38	60C	25	11	3
0.9 - 1.2							1.50	21	63C	26	8	3
1.2 - 1.4							1.60	22	62C	28	4	5
1.4 - 1.5							1.90	31	55C	27	7	11
1.5 - 1.8			3B	200F		4.18B	1.40	23	53C	23	9	16
1.8 - 1.9							2.00	26	55C	23	12	12
1.9 - 2.1							1.80	28				
2.1 - 2.4				200F		3.62B	1.20	21	55C	23	7	16
2.4 - 2.48							2.00	21				
2.48 - 2.62							2.00	3	53C	30	9	11

Depth	COLE		Grav	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 - 0.04 0.04 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.4 1.4 - 1.5 1.5 - 1.8 1.8 - 1.9

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1.9 - 2.1 2.1 - 2.4 2.4 - 2.48 2.48 - 2.62

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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_NA 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
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 Coarse sand (%) - Not recorded
P10_NR_FS Fine sand (%) - Not recorded
P10_NR_Z Silt (%) - Not recorded
P3A_NR Bulk density - Not recorded