Project Name: NAR

Project Code: NAR Site ID: B807 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality: Catchment 3.
Date Desc.: 21/09/72 Elevation: 265 metres

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

Northing/Long.: 150.90277777778 Runoff: Moderately rapid
Easting/Lat.: -25.7011111111111 Drainage: Moderately well drained

Geology

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

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 1.1 m

deep, Unconsolidated material

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Mid-slopeRelief:30 metresElem. Type:HillslopeSlope Category:No DataSlope:4 %Aspect:No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AMagnesic Mottled-Subnatric Grey SodosolPrincipal Profile Form:Dy5.41ASC Confidence:Great Soil Group:Soloth

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, Aristida species

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments:

Profil	e Morphology	
A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Moderately moist; Very weak consistence; Common, very fine (0-1mm) roots; Clear change to -
A12	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Coarse sand (Heavy); Massive grade of structure; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.2 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
A22	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few, very fine (0-1mm) roots; Gradual change to -
A23	0.3 - 0.53 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Coarse sand; Massive grade of structure; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2%), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, very fine (0-1mm) roots; Sharp change to -
B21	0.53 - 0.6 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Coarse sandy medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;
B21	0.6 - 0.73 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 10YR63, 20-50% , 5-15mm, Distinct; Coarse sandy medium clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Clear change to -
B22	0.73 - 0.9 m	Brown (10YR4/3-Moist); ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse

fragments; Common, very fine (0-1mm) roots;

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B22 0.9 - 0.96 m Brown (10YR4/3-Moist); ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm

consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Many, very

fine (0-1mm) roots; Diffuse change to -

B3 0.96 - 1.07 m Brown (10YR4/3-Moist); , 10YR52, 20-50% , 0-5mm, Distinct; , 10YR84, 20-50% , 0-5mm,

Distinct; Coarse sandy medium clay; Weak grade of structure, Angular blocky; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Many, very

fine (0-1mm) roots; Clear change to -

C 1.07 - 1.2 m Yellow (10YR8/6-Moist); , 10YR73, 20-50% , 0-5mm, Distinct; , 5YR52, 20-50% , 0-5mm,

Distinct; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Diffuse

change to -

C 1.2 - 1.33 m Brownish yellow (10YR6/6-Moist); , 5YR73, 20-50% , 0-5mm, Distinct; , 10YR58, 20-50% , 0-

5mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moderately moist; Very firm

consistence; 50-90%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. 0-53CM GRAVELS DOMINANTLY QUARTZ, FELDSPARS BELOW. BELOW 96CM ALTERED ADAMELLITE IN SITU.

Site Notes

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Laboratory Test Results:

Laboratory Test Results:													
Depth	pН	1:5 EC		changeable Mg	Cations K	Na		hangeable Acidity	CEC	E	CEC	E	SP
m		dS/m		9		Cmol						9	6
0 - 0.05	6.8H	0.05A	5.8K	0.77	0.17	0.03		1.2D					
0.05 - 0.1	6.7H	0.025A	1.7K	0.27	0.05	0.01		0D					
0.1 - 0.2	6.5H	0.025A											
0.2 - 0.3	6H	0.025A											
0.3 - 0.53	5.8H	0.025A											
0.53 - 0.6	5.8H	0.092A											
0.6 - 0.73	5.6H	0.138A	0.46K	6.5	0.11	1.6		2.9D					
0.73 - 0.9	5.5H	0.156A											
0.9 - 0.96	5.3H	0.26A	0.54K	15.3	0.29	4.6		4.3D					
0.96 - 1.07	5.4H	0.24A											
1.07 - 1.2	5.7H	0.124A											
1.2 - 1.33	6.1H	0.1A											
Depth	CaCO3	Organic	Avail. P	Total	Total	Tot		Bulk		rticle S	Size Aı		N
m	%	C %	mg/kg	P %	N %	К %		Density Mg/m3	GV	CS	FS %	Silt (lay
	/0	70	ilig/kg	/0	/0	,	0	Wig/III3			/0		
0 - 0.05		1.16A	26B	190F	0.09	96B 5	5.3B	1.50	0	75C	17	4	2
0.05 - 0.1		0.19A	6B	70F	0.02		.08B	1.60	3	92C	5	2	1
0.1 - 0.2		0.09A	3B		0.0			1.40	1	90C	7	2	1
0.2 - 0.3		0.08A			0.0	13B		1.40	0.4	73C	22	4	1
0.3 - 0.53		0.09A	3B		0.0	1B		1.60	1	78C	17	4	2
0.53 - 0.6								2.00	5	58C	23	7	13
0.6 - 0.73					0.02	25B		2.10	1	50C	20	6	24
0.73 - 0.9			2B	90F		2	.64B		28	44C	17	7	31
0.9 - 0.96								1.80	23	47C	12	12	30
0.96 - 1.07								1.20	18	50C	13	13	21
1.07 - 1.2			6B					2.00	40	77C	6	6	6
1.2 - 1.33								1.80	55				
Depth	COLE		Grav	vimetric/Vo	Jumotrio V	Nator C	onton	te.		K sat		unsat	
Берш	COLL	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar			Bar	IX Sai		unsat	
m				g/	g - m3/m	3				mm/h	1	mm/h	
0 - 0.05													
0.05 - 0.1													
0.1 - 0.2													
0.2 - 0.3													
0.3 - 0.53													

0.2 - 0.3 0.3 - 0.53 0.53 - 0.6 0.6 - 0.73 0.73 - 0.9 0.9 - 0.96 0.96 - 1.07 1.07 - 1.2 1.2 - 1.33

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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