Project Name: NAR

Project Code: NAR Site ID: B795 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: 240 metres

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

Northing/Long.: 150.91083333333 Runoff: Moderately rapid Easting/Lat.: -25.692222222222 Drainage: Well drained

Geology

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

Geol. Ref.: PRt Substrate Material: Undisturbed soil core, 0.7 m

deep,Adamellite

**Land Form** 

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Mid-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:5 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AMottled Eutrophic Red ChromosolPrincipal Profile Form:Dr2.21

ASC Confidence: Great Soil Group: Red podzolic soil

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, Sparse. \*Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

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Profile	worn	เดเดตง

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy loam; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A1	0.1 - 0.15 m	Dark reddish brown (5YR3/2-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A2	0.15 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Loamy coarse sand; Massive grade of structure; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.24 m	Dark reddish brown (5YR3/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B2	0.24 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots;
B2	0.3 - 0.52 m	Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
B2	0.52 - 0.6 m	Dark red (2.5YR3/6-Moist); , 10YR84, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots;
В3	0.6 - 0.65 m	Dark red (2.5YR3/6-Moist); , 10YR84, 20-50% , 0-5mm, Prominent; , 20-50% , 0-5mm, Prominent; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm,

angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots;

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Reddish brown (5YR4/4-Moist); , 2.5YR36, 10-20% , 0-5mm, Distinct; , 10YR84, 10-20% , 0-5mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very firm 0.65 - 0.7 m

consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few, very fine (0-

1mm) roots; Abrupt change to -

С 0.7 - 0.9 m Dark red (2.5YR3/6-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10YR82, 10-20% , 5-15mm,

Distinct; Coarse sandy clay loam; Massive grade of structure; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots;

Dark red (2.5YR3/6-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; , 10YR82, 10-20% , 5-15mm, С 0.9 - 0.95 m

Distinct; Clayey coarse sand; Massive grade of structure; Dry; Very firm consistence; 20-50%,

fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

## **Morphological Notes**

## **Observation Notes**

MUCH 10-25MM FELDSPAR GRAVEL IN A HORIZONS, BELOW 60CM PROMINENT MINERAL SPECKLING. 70-90CM ROCK WEATHERED IN SITU. LAYERS RENUMBERED 6-10-92

## **Site Notes**

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Project Name: Project Code: Agency Name: NAR

NAR Site ID: B795 CSIRO Division of Soils (QLD) Observation ID: 1

Laboratory	lest Re	esults:										
Depth	pН	1:5 EC		hangeable			changeable	CEC	E	CEC	E	SP
m		dS/m	Ca	Mg	K	Na Cmol (+)/k	Acidity (g				ģ	%
0 0 1	COLL	0.025/	\ 4.412	4.0	0.24	0.04	2.40					
0 - 0.1 0.1 - 0.15	6.8H 6.8H	0.035 <i>A</i> <0.03A		1.2	0.31	0.04	2.1D					
0.15 - 0.13	6.8H	<0.03A										
0.13 - 0.24	6.7H	<0.03A										
0.24 - 0.3	6.1H	<0.03A										
0.3 - 0.52	6.1H	<0.03A		3	0.34	0.16	7.5D					
0.52 - 0.6	6.4H	<0.03A		O	0.04	0.10	7.00					
0.6 - 0.65	6.5H	<0.03A										
0.65 - 0.7	6.8H	<0.03A										
0.7 - 0.9	7.3H	<0.03A										
0.9 - 0.95	7.3H	<0.03A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV		Size <i>F</i> FS	Analysis Silt (	Clay
m	%	%	mg/kg	%	%	%	Mg/m3	GV	03	%	Siit V	Clay
0 - 0.1		0.94A	57B	340F	0.06	61B 3.28E	3 1.00	31	56C	27	10	0
0.1 - 0.15		0.58A	37B	3406	0.00		1.40	45	56C	29	9	8 7
0.15 - 0.2		0.38A	30B	280F	0.0		-	79	62C	24	9	7
0.13 0.2		0.25A	10B	2001	0.02		1.30	74	67C	18	5	9
0.24 - 0.3		0.48A	102		0.05	-	1.50	32	47C	13	6	35
0.3 - 0.52		0.45A	3B	340F	0.04			21	34C	13	6	49
0.52 - 0.6							1.10	28	33C	17	6	44
0.6 - 0.65							1.60	23	40C	17	7	36
0.65 - 0.7							2.00	33	46C	21	9	24
0.7 - 0.9			3B				1.90	27	57C	18	9	18
0.9 - 0.95							1.90	50	75C	15	6	2
Depth	COLE		Grav	/imetric/Vo	lumetric V	Vater Conte	nts		K sat		K unsat	
2 op		Sat.	0.05 Bar		0.5 Bar	1 Bar		Bar				
m		-	0.00		g - m3/m		·		mm/h	I	mm/h	
0 - 0.1												
0.1 - 0.15												
0.15 - 0.2												
02-024												

0.15 - 0.2 0.2 - 0.24 0.24 - 0.3 0.3 - 0.52 0.52 - 0.6 0.6 - 0.65 0.65 - 0.7 0.7 - 0.9 0.9 - 0.95

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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
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