

Project Name: NAR
Project Code: NAR **Site ID:** B810 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	Catchment 4.
Date Desc.:	07/12/72	Elevation:	240 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	716
Northing/Long.:	150.910555555556	Runoff:	No Data
Easting/Lat.:	-25.6933333333333	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRT	Substrate Material:	Undisturbed soil core, 1 m deep, Adamellite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	4 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mottled Eutrophic Grey Kurosol	Mapping Unit:	N/A
ASC Confidence:	All necessary analytical data are available.	Principal Profile Form:	Dy3.81
		Great Soil Group:	Gleyed podzolic soil

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

Vegetation: Low Strata - Tussock grass, . . *Species includes - Heteropogon contortus
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; 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; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A2	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Loamy coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A2	0.3 - 0.44 m	Brown (10YR5/3-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 - 6 mm), Nodules; Gradual change to -
A2	0.44 - 0.6 m	Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Diffuse change to -
A2	0.6 - 0.76 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/3-Dry); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Many (20 - 50 %), Manganiferous, Very coarse (20 - 60 mm), Nodules; Abrupt change to -
B1	0.76 - 0.84 m	Yellowish brown (10YR5/8-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 10YR53, 20-50% , 5-15mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Very many (50 - 100 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Few, very fine (0-1mm) roots; Clear change to -
B2	0.84 - 0.9 m	Light grey (10YR7/1-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 5YR46, 20-50% , 5-15mm, Distinct; Light medium clay; Massive grade of structure; Moist; Moderately plastic; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 - 6 mm), Nodules; Diffuse change to -

Project Name: NAR
Project Code: NAR **Site ID:** B810 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

B2	0.9 - 1.06 m	Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; , 7.5YR58, 10-20% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Few (2 - 10 %), , , ; Few, very fine (0-1mm) roots; Abrupt change to -
C	1.06 - 1.2 m	Light brownish grey (2.5Y6/3-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; , 10YR86, 20-50% , 5-15mm, Distinct; Coarse sandy medium clay; Massive grade of structure; Moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Abrupt change to -
C	1.2 - 1.43 m	Strong brown (7.5YR5/8-Moist); , 2.5Y62, 10-20% , 0-5mm, Prominent; , 10YR84, 10-20% , 0-5mm, Prominent; Clayey coarse sand; Massive grade of structure; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Abrupt change to -
C	1.43 - 1.59 m	Light brownish grey (10YR6/2-Moist); , 7.5YR58, 10-20% , 15-30mm, Distinct; , 10YR53, 10-20% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Abrupt change to -
C	1.59 - 1.8 m	Yellowish brown (10YR5/4-Moist); , 2.5Y52; , 2.5Y64; Coarse sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments;

Morphological Notes

Observation Notes

A HORIZONS PROBABLY FORMED IN COLLUVIUM FROM ADAMELLITE. GRAVELS QUATZAND FELDSPARS THROUGHOUT. COARSE FELDSPARS (15MM)IN A AND B HORIZON. BELOW 106CM ROCK FABRIC. LAYERS RENUMBERED 7-10-92

Site Notes

NARAYEN

Observation ID: 1

Observation ID: 1

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	6.7H	0.066A	5.5K	1.2	0.36	0.07	0.9D		
0.1 - 0.2	6.8H	0.03A	2.2K	0.82	0.21	0	0D		
0.2 - 0.3	6.9H	0.03A							
0.3 - 0.44	7H	0.03A	0.84K	0.51	0.13	0.02	0D		
0.44 - 0.6	7H	0.03A							
0.6 - 0.76	7H	0.03A							
0.76 - 0.82	5.3H	0.03A	2K	3.2	0.21	0.25	5.5D		
0.82 - 0.9	4.9H	0.04A							
0.9 - 1.06	4.7H	0.062A	5.1K	10.5	0.42	0.99	11.2D		
1.06 - 1.2	5H	0.052A							
1.2 - 1.43	5.1H	0.04A							
1.43 - 1.59	4.8H	0.072A							
1.59 - 1.8	4.9H	0.066A							

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0 - 0.1		0.9A	34B	320F	0.074B	3.78B	1.40	20	63C	24	8	6
0.1 - 0.2		0.32A	8B		0.03B		1.50	21	52C	36	9	4
0.2 - 0.3							1.60	27				
0.3 - 0.44		0.11A	2B		0.015B		1.60	27	68C	23	7	3
0.44 - 0.6									1.70	29		
0.6 - 0.76		0.06A	7B		0.015B		1.70	24	62C	24	8	8
0.76 - 0.82		0.04A	2B		0.013B		0.80	33	48C	25	10	19
0.82 - 0.9							2.00	23	42C	20	6	32
0.9 - 1.06			<1B	260F		3.5B	1.60	21	36C	18	7	39
1.06 - 1.2							1.50	19	58C	15	8	21
1.2 - 1.43			4B	220F			1.90	30	62C	17	10	12
1.43 - 1.59							1.60	20				
1.59 - 1.8							1.70	25				

[illegible]

Project Name: NAR
Project Code: NAR **Site ID:** B810 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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_MG	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 - Cl(%) - Not recorded
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