

Project Name: NAR
Project Code: NAR **Site ID:** B811 **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
Northing/Long.:	150.910555555556	Runoff:	Moderately rapid
Easting/Lat.:	-25.693333333333	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:	Rises
Morph. Type:	Lower-slope	Relief:	30 metres
Elem. Type:	Footslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Eutrophic Brown Chromosol		Principal Profile Form:	Dy3.81
ASC Confidence:		Great Soil Group:	Gleyed 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, 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 (Light); 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; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A13	0.2 - 0.3 m	Brown (10YR5/3-Moist); ; Loamy coarse sand; 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 -
A14	0.3 - 0.4 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -
A2	0.4 - 0.6 m	Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Clear change to -
A2	0.6 - 0.75 m	Brown (10YR5/3-Moist); ; Clayey coarse sand; Massive grade of structure; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few, very fine (0-1mm) roots; Gradual change to -
A2	0.75 - 0.9 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;
A2	0.9 - 1 m	Yellowish brown (10YR5/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
A2	1 - 1.2 m	Light yellowish brown (10YR6/4-Moist); ; Coarse sand; Massive grade of structure; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments;

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A2	1.2 - 1.31 m	Light yellowish brown (10YR6/4-Moist); ; Clayey coarse sand; Massive grade of structure; Wet; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Abrupt change to -
B2	1.31 - 1.5 m	Strong brown (7.5YR5/6-Moist); , 2.5Y63, 20-50% , 5-15mm, Faint; , 20-50% , 5-15mm, Faint; Coarse sandy clay loam; Massive grade of structure; Wet; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Gradual change to -
B2	1.5 - 1.65 m	Strong brown (7.5YR5/6-Moist); , 10YR62, 20-50% , 15-30mm, Distinct; , 20-50% , 15-30mm, Distinct; Coarse sandy clay loam; Massive grade of structure; Moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Gradual change to -
B3	1.65 - 1.8 m	Yellowish brown (10YR5/6-Moist); , 10YR72, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Weak grade of structure, 50-100 mm, Angular blocky; Moist; Strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Other pans, Weakly cemented; Gradual change to -
B3	1.8 - 1.98 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR56, 20-50% , 15-30mm, Prominent; , 20-50% , 15-30mm, Prominent; Coarse sandy clay loam; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Other pans, Weakly cemented; Gradual change to -
B3	1.98 - 2.1 m	Yellowish brown (10YR5/4-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 7.5YR56, 20-50% , 5-15mm, Distinct; Coarse sandy loam; Massive grade of structure; Dry; Very strong consistence; 20-50%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Other pans, Weakly cemented; Clear change to -
B3	2.1 - 2.21 m	Yellowish red (5YR4/6-Moist); , 2.5Y62, 20-50% , 15-30mm, Distinct; , 7.5YR56, 20-50% , 15-30mm, Distinct; Clayey coarse sand; Massive grade of structure; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, Gravel, coarse fragments; Other pans, Weakly cemented;
D	2.21 - 2.3 m	Yellowish red (5YR4/6-Moist); , 2.5Y62, 20-50% , 15-30mm, Distinct; , 7.5YR84, 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;

Morphological Notes

Observation Notes

PARENT MATERIAL COLLUVIUM FROM ADAMELLITE. D HORIZON ADAMELLITE IN SITU. QUARTZ WITH SOME COARSE FELDSPARS THROUGHOUT. 165-221CM BRITTLE PAN LIKE DENSIPAN WITH SOME LBG ILLUVIAL CUTANS ON INFREQUENT CLEAVAGES. LAYERS RENUMBERED 7-10-92

Site Notes

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0.9 - 1
1 - 1.2
1.2 - 1.31
1.31 - 1.5
1.5 - 1.65
1.65 - 1.8
1.8 - 1.98
1.98 - 2.1
2.1 - 2.21
2.21 - 2.3

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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_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