

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B799      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	Catchment 4.
<b>Date Desc.:</b>	20/09/72	<b>Elevation:</b>	235 metres
<b>Map Ref.:</b>	Sheet No. : 9046    1:100000	<b>Rainfall:</b>	716
<b>Northing/Long.:</b>	150.9125	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-25.6952777777778	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>Exposure Type:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	PRt	<b>Substrate Material:</b>	Undisturbed soil core, 1 m deep, Unconsolidated material

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	30 metres
<b>Elem. Type:</b>	Valley flat	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Magnesian Mottled-Subnatric Brown Sodosol		<b>Principal Profile Form:</b>	Dy3.82
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	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

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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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_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