

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B717      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	10/05/71	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 9046 1:100000	<b>Rainfall:</b>	716
<b>Northing/Long.:</b>	150.902777777778	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-25.704166666667	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	PRt	<b>Substrate Material:</b>	Auger boring, 0.65 m deep, Adamellite

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4.9 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Brown Kurosol		<b>Principal Profile Form:</b>	Dy3.61
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow 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, Cymbopogon refractus  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.1 m	Brown (7.5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Abundant, very fine (0-1mm) roots; Gradual change to -
A2	0.1 - 0.4 m	Brown (10YR4/3-Moist); ; Coarse sand; Massive grade of structure; Dry; Weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 6.8 (pH meter); Common, very fine (0-1mm) roots; Gradual change to -
A3	0.4 - 0.53 m	Brown (7.5YR5/4-Moist); ; Clayey coarse sand; Massive grade of structure; Dry; Very weak consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Irregular change to -
B2	0.53 - 0.65 m	Yellowish brown (10YR5/8-Moist); , 7.5YR56, 20-50% , 5-15mm, Distinct; , 10YR43, 20-50% , 5-15mm, Distinct; Medium heavy clay; Massive grade of structure; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, angular, Gravel, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
C	0.65 - 0.8 m	Yellowish brown (10YR5/8-Moist); , 5YR55, 20-50% , 0-5mm, Distinct; , 10YR85, 20-50% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Moderately moist; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, angular, Gravel, coarse fragments; Field pH 5.8 (pH meter);

**Morphological Notes**

**Observation Notes**

STRONG WEATHERING MINERAL SPECKLING BELOW 53CM. GRAVEL PREDOMINANTLY FELDSPAR WITH QUARTZ.

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.1 0.1 - 0.4 0.4 - 0.53	6.3H	0.01B	3.5K	0.96	0.44	0.02	1.8D			
0.53 - 0.65 0.65 - 0.8	5.3H	0.03B	5.5K	9.9	0.6	0.38	4.8D			

Depth	CaCO <sub>3</sub>	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>	GV	CS	FS %	Silt Clay
0 - 0.1 0.1 - 0.4 0.4 - 0.53 0.53 - 0.65 0.65 - 0.8		1.3A	25B	300F	0.071B	3.1B		17	71C	17	6    4
				420F		2.1B		25	31C	16	9    44

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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
3_NR	Electrical conductivity or soluble salts - Not recorded
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