

**Project Name:** NAR  
**Project Code:** NAR      **Site ID:** B582      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	Narayan Research Station.
<b>Date Desc.:</b>	16/08/69	<b>Elevation:</b>	275 metres
<b>Map Ref.:</b>	Sheet No. : 9046 1:100000	<b>Rainfall:</b>	712
<b>Northing/Long.:</b>	150.866666666667	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-25.65	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Czs	<b>Substrate Material:</b>	Undisturbed soil core, 2 m deep, Unconsolidated material

#### Land Form

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Pediment
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	24 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	4.4 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Magnesian Mottled-Subnatric Yellow Sodosol	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Dy3.41
		<b>Great Soil Group:</b>	Yellow podzolic soil

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

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Aristida species  
 Mid Strata - Shrub, , . \*Species includes - None recorded  
 Tall Strata - Tree, 12.01-20m, Closed or dense. \*Species includes - Eucalyptus crebra, Eucalyptus polycarpa

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, , Substrate material

#### Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Sharp change to -
A2	0.05 - 0.1 m	Brown (10YR5/3-Moist); ; Loamy sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots; Sharp change to -
A2	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, Quartz, coarse fragments; Common, fine (1-2mm) roots;
A2	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); ; Sand; Massive grade of structure; Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments;
A2	0.3 - 0.41 m	Pale brown (10YR6/3-Moist); ; Clayey sand; Massive grade of structure; Dry; Weak consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abrupt change to -
A3	0.41 - 0.45 m	White (10YR8/2-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; 20-50%, fine gravelly, 2-6mm, Quartz, coarse fragments; Abrupt change to -
B21	0.45 - 0.6 m	Brownish yellow (10YR6/6-Dry); , 10YR63, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Gradual change to -
B22	0.6 - 0.75 m	Red (2.5YR4/8-Dry); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 10YR62, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Gradual change to -

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B22	0.75 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 5-15mm, Prominent; , 2.5YR48, 20-50% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Gradual change to -
B22	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B22	1.2 - 1.28 m	Brownish yellow (10YR6/6-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 10R46, 20-50% , 15-30mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Clear change to -
B23	1.28 - 1.5 m	Grey (10YR6/1-Dry); , 10YR66, 2-10% , 15-30mm, Prominent; , 10R46, 2-10% , 15-30mm, Prominent; Heavy clay; Strong grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B23	1.5 - 1.65 m	Grey (10YR6/1-Dry); , 10R46, 10-20% , 15-30mm, Prominent; , 10YR66, 10-20% , 15-30mm, Prominent; Sandy medium clay; Moderate grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
B3	1.65 - 1.8 m	Light grey (10YR7/1-Dry); , 10YR58, 0-2% , 15-30mm, Prominent; , 0-2% , 15-30mm, Prominent; Sandy medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; 10-20%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments;

#### **Morphological Notes**

#### **Observation Notes**

#### **Site Notes**

MUNDUBBERA

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1.65 - 1.8

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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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
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