

Project Name: NAR
Project Code: NAR **Site ID:** B791 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	25/06/71	Elevation:	230 metres
Map Ref.:	Sheet No. : 9046 1:100000	Rainfall:	716
Northing/Long.:	150.902777777778	Runoff:	No Data
Easting/Lat.:	-25.704166666667	Drainage:	No Data

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	PRT	Substrate Material:	Auger boring, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	No Data
Slope:	2.6 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Calcic Red Chromosol		Principal Profile Form:	Dr3.23
ASC Confidence:		Great Soil Group:	Solodic 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
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR4/3-Moist); ; Fine sandy loam; Weak grade of structure, 5-10 mm, Polyhedral; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots; Diffuse change to -
A2	0.2 - 0.38 m	Reddish brown (5YR5/4-Moist); Light brown (7.5YR6/4-Dry); ; Loamy fine sand; Massive grade of structure; Moderately moist; Firm consistence; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots; Abrupt change to -
B21	0.38 - 0.7 m	Dark red (2.5YR3/6-Moist); , 7.5YR43, 20-50% , 0-5mm, Distinct; , 10YR54, 20-50% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B22	0.7 - 0.9 m	Brown (10YR5/3-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 5YR45, 20-50% , 5-15mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Clear change to -
B23	0.9 - 1.2 m	Brown (10YR5/3-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; , 5YR45, 20-50% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B3	1.2 - 2.1 m	Strong brown (7.5YR5/6-Moist); , 10YR62, 20-50% , 5-15mm, Distinct; , 5YR45, 20-50% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
BC	2.1 - 3 m	Reddish brown (5YR5/4-Moist); ; Fine sandy medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8.1 (pH meter);

Morphological Notes

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SUBSTRATE AUBURN RIVER TERRACE ALLUVIUM. HIGH TERRACE REMNANT. LAYERS RENUMBERED 6-10-92

Site Notes

NARAYEN

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.2	6.3H	<0.01B	2.4K	1.3	0.28	0.03	2.1D
0.2 - 0.38							
0.38 - 0.7	6.8H	<0.01B	9.3K	6	0.36	0.41	5.4D
0.7 - 0.9							
0.9 - 1.2							
1.2 - 2.1							
2.1 - 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
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