

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** na027 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	stock route, by Bald Hill Road
Date Desc.:	01/06/88	Elevation:	210 metres
Map Ref.:	Sheet No. : 8837_S 1:50000	Rainfall:	No Data
Northing/Long.:	6647400 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	763100 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Terrace flat	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Surface crust, Trampled

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	N/A
		Great Soil Group:	Red-brown earth

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR5/4-Dry); ; Fine sandy loam; Massive grade of structure; Weak grade of structure, 5-10 mm, Platy; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.22 m	Brown (7.5YR4/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.22 - 0.5 m	Dusky red (2.5YR3/2-Moist); , 7.5YR44, 0-2% , 0-5mm, Faint; Light medium clay; Strong grade of structure, 100-200 mm, Prismatic; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22k	0.5 - 1.1 m	Reddish brown (5YR4/4-Moist); , 2.5YR34, 2-10% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
C1	1.1 - 1.65 m	Reddish brown (5YR4/4-Moist); , 5YR32, 0-2% , 0-5mm, Faint; Sandy loam; Massive grade of structure; Weak grade of structure, 2-5 mm, Cast; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
C2	1.65 - 2.1 m	Strong brown (7.5YR5/6-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 8.5 (pH meter);

Morphological Notes

A11 A red duplex soil similar to Aloomba pit but perhaps a little more developed.

Observation Notes

Parent Rock: alluvial sediment, sand, clay second terraced fan, Namoi

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Na027 at Bald Hill Road. Sand at 210cm stops further recovery. The soil is like Aloomba pit. This is red-brown Q but the eroded land nearby is slightly lower and probably Pian.

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Laboratory Analyses Completed for this profile