

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** we017 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: stock route, near Warrambool
Date Desc.: 30/05/88	Elevation: 174 metres
Map Ref.: Sheet No. : 8737_N 1:50000	Rainfall: No Data
Northing/Long.: 6653800 AMG zone: 55	Runoff: No Data
Easting/Lat.: 702200 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

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: Solodic soil

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR5/2-Dry); ; Sandy loam; Massive grade of structure; Weak grade of structure, 5-10 mm, Platy; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.12 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Light medium clay; Strong grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;
B22	0.25 - 0.4 m	Dark brown (7.5YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B23k	0.4 - 1 m	Brown (7.5YR4/4-Moist); , 7.5YR32, 0-2% , 0-5mm, Distinct; Light clay; Weak grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth
B24	1 - 2 m	Yellowish red (5YR4/6-Moist); , 7.5YR42, 0-2% , 5-15mm, Distinct; , 7.5YR42, 0-2% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Cast; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Laminae; Field pH 8.5 (pH meter); Diffuse, Smooth change to -
C	2 - 2.54 m	Strong brown (7.5YR5/6-Moist); , 7.5YR42, 0-2% , 5-15mm, Distinct; Fine sandy clay loam; Massive grade of structure; Weak grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.5 (pH meter);

Morphological Notes

A1 Bu017 on core is incorrect. This is a duplex profile with dark grey B over a distinct carbonate zone between 40-100cm. Finely banded sandy clays and sands below 200cm. Q.

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

Site Notes

At southern side of patch of poplar box beside cultivated cracking clay field. Core looks like Pian, backswamp, but the field nearby may be older. Later I conclude that this is a Q.

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Laboratory Analyses Completed for this profile