

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** na001 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	stock route, at Bohena
Date Desc.:	06/01/86	Elevation:	231 metres
Map Ref.:	Sheet No. : 8837_S 1:50000	Rainfall:	No Data
Northing/Long.:	6630400 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	753200 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:	Hillcrest	Slope Category:	Moderately inclined
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug5.16
		Great Soil Group:	Grey clay

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Very firm consistence; Sharp, Smooth change to -
A12	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Moderately moist; Strong consistence; Abrupt, Smooth change to
B21y	0.2 - 0.6 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Earthy fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Gradual, Smooth change to -
B22	0.6 - 1.6 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Diffuse, Smooth change to -
B23	1.6 - 4 m	Dark greyish brown (10YR4/2-Moist); , 10YR72, 0-2% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Diffuse, Smooth change to -
2B2	4 - 5.6 m	Pale brown (10YR6/3-Moist); , 10R34, 10-20% , 30-mm, Prominent; , 7.5YR58, 2-10% , 0-5mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Earthy fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Ironstone, coarse fragments; Diffuse, Smooth change to -
2C	5.6 - 6 m	Yellowish brown (10YR5/6-Moist); , 2.5Y62, 2-10% , 5-15mm, Distinct; Loamy sand; Massive grade of structure; Moderate grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Moderately moist; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct;

Morphological Notes

A11	Organic stain around a root in second and third horizons, 2.5YR3/2. Traces of soft lime above gypsum in horizon 2. Colour of horizon 4 is paler than those above but is still 10YR4/2. Horizon 5 is also paler than the material above. Its seg
A12	egations are minute, = fine sand layers. Few slickensides below 160cm. The 10YR7/2 segregations below 160cm are not gypsum but sand (X-ray ID) and are seen also in the upper part of the subjacent horizon. Manganese flecks seem to stop at 40

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B21y 0cm. Flecks of red material start at 390cm in grey clay. We seem to be passing here into sandy material with much organic worm traces, possibly a burial. One ironstone coarse fragment found. Horizon 6 ped colour is red, with reduced colours

B22 surrounding. A broken ironstone fragment, angular, 6-20mm, was found at 465cm. Horizon 7 has nodular fracture. Horizon 6 grades down to coarse sandy clay. Horizon designations are tentative.

Observation Notes

Parent Rock: aeolian sediment, clay, over weathered sands and clayey sands parna on fifth fan, Bohena

Site Notes

A very low interfluvium. Very few cracks, long, 15cm wide, run from bluff to shelf. Site drilled is on crest of bluff.

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile