

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed411 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	stock route, near Waugan
Date Desc.:	22/01/86	Elevation:	218 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6670300 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	761100 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 plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching, 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:	Grey clay

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.2 m	Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); ; Light medium clay; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
A12	0.2 - 0.65 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A13	0.65 - 0.95 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.95 - 1.4 m	Dark reddish brown (5YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Platy; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B22	1.4 - 2.1 m	Dark reddish brown (5YR3/3-Moist); , 2.5YR56, 0-2% , 0-5mm, Distinct; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Platy; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;
2A	2.1 - 4.2 m	Dark reddish brown (5YR3/3-Moist); , 2.5YR56, 2-10% , 0-5mm, Distinct; Heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change
2B	4.2 - 5.7 m	Dark reddish brown (5YR3/3-Moist); , 7.5YR32, 2-10% , 15-30mm, Distinct; Heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 20-50 mm, Platy; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -

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2B	5.7 - 6.3 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.6 (pH meter); Diffuse, Smooth change to -
2C	6.3 - 6.7 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Sandy (grains prominent) fabric; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Sharp, Smooth change to -
3A	6.7 - 7.2 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Gradual, Smooth change to -
3B	7.2 - 7.55 m	Strong brown (7.5YR4/6-Moist); , 5YR33, 2-10% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Moderate grade of structure, 5-10 mm, Cast; Sandy (grains prominent) fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, Sandstone, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;

Morphological Notes

A11	Waugan stratigraphic hole. Ant seed store at 100. Snail shell at 46cm. Faunal colour in 411.05 is worm casts. Soft concretions continue to 210, then lime changes to nodules (2kn2) and wedge structure dominates, with only a few casts. Bounda
A12	ry at 420 is somewhat arbitrary. 420 to 570 has some worm casts. 630-370 has stream gravel at base including basalt and waterworn lime fragments. 670-720 lime is mostly in worm channels, at lowest level the lime coats limestone pebbles. Her
A13	e manganese also coats pebbles. Hordesigs below 210 are speculative. Buried soil 2 is doubtful.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, parna on fourth fan

Site Notes

Site 411 was at first wrongly numbered ed243 (= Edgeroi rubbish pit).

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Laboratory Analyses Completed for this profile