

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed343 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> W.T. Ward	<b>Locality:</b> I.O.(Ian) Falkiner, Murrumbilla
<b>Date Desc.:</b> 13/04/87	<b>Elevation:</b> 298 metres
<b>Map Ref.:</b> Sheet No. : 8837_N 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6655900 AMG zone: 55	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 780400 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Pediment	<b>Slope Category:</b> No Data
<b>Slope:</b> %	<b>Aspect:</b> 355 degrees

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> N/A
	<b>Great Soil Group:</b> Solodic soil

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.12 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); , 10YR64, 0-2% , 0-5mm, Distinct; , 7.5YR56, 0-2% , 0-5mm, Distinct; Sandy clay loam (Light); Weak grade of structure, 5-10 mm, Platy; Weak grade of structure, 20-50 mm, Angular blocky; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.12 - 0.25 m	Brown (7.5YR4/4-Moist); , 7.5YR42, 10-20% , 0-5mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; 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); Few, very fine (0-1mm) roots;
B22	0.25 - 0.55 m	Brown (10YR4/3-Moist); , 10YR41, 10-20% , 0-5mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;
B23	0.55 - 1.1 m	Yellowish red (5YR4/6-Moist); , 7.5YR54, 2-10% , 5-15mm, Prominent; , 10YR61, 20-50% , 15-30mm, Prominent; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, 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 -
B24g	1.1 - 1.9 m	Reddish brown (5YR4/4-Moist); , 10YR62, 20-50% , 30-mm, Prominent; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter); Few, fine (1-2mm) roots;
B25g	1.9 - 3.05 m	Strong brown (7.5YR5/6-Moist); , 10YR61, 20-50% , 30-mm, Prominent; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Veins; Field pH 8.5 (pH meter); Abrupt, Smooth change to -

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B26g    3.05 - 3.9 m    Yellowish red (5YR4/6-Moist); , 10YR61, 20-50% , 30-mm, Prominent; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm<sup>2</sup>) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Veins; Field pH 8.5 (pH meter); Clear, Smooth change to -

#### **Morphological Notes**

A1                      0-5 is recent wash on original profile. Basal gravels entered at 305, continue to 321. These are mostly ferruginous sandstone and ironstone plates, from Purlawaugh contact. Also small rounded sandstone and quartz pebbles, and fine-grained G

B21                      arawilla fragment. Stones continue to 358; 360- 370 is another stony band, with ferruginous plates, quartz and Garawilla. At 390 heavy angular fragments of Pilliga; Garawilla, and Purlawaugh occur in a sand and basalt stony matrix which continues to bottom of hole. Purlawaugh cobble greater than 10cm diameter, 10cm thick at 410cm.

B22

#### **Observation Notes**

Parent Rock: colluvial sediment, from sandstone, clay and basalt, with lime, colluvium, thick, with basalt

#### **Site Notes**

Site 343 is ca 350m NNW of 342, and appears to be in a slight, very shallow depression, i.e., this whole surface is not planar. Surface is hard-setting and coarse sandy clay as at 342.



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Laboratory Analyses Completed for this profile