

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed188 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	E. Veldhuis	Locality:	R.M.(Ross) Fordham, Wonga Plains
Date Desc.:	20/04/85	Elevation:	291 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6653200 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	774300 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:	Very gently sloped
Slope:	1 %	Aspect:	310 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr5.12
		Great Soil Group:	Solodic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Dark greyish brown (10YR4/2-Dry); , 10YR33, 2-10% , 0-5mm, Faint; Clayey sand; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded tabular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.27 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/4-Dry); ; Clayey sand; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.8 (pH meter); Common, fine (1-2mm) roots; Clear, Smooth change to -
A13	0.27 - 0.4 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR5/4-Dry); ; Clayey sand; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smooth change to -
B21t	0.4 - 0.5 m	Dark red (7.5R3/6-Moist); , 7.5YR42, 2-10% , 0-5mm, Distinct; Light medium clay; Massive grade of structure; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded tabular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22	0.5 - 1.1 m	Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B23	1.1 - 1.85 m	Dark red (2.5YR3/6-Moist); , N50, 2-10% , 15-30mm, Distinct; Coarse sand; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm) roots;

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B24 1.85 - 2.53 m Dark red (10R3/6-Moist); , 5YR51, 2-10% , 5-15mm, Prominent; Clayey sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 6.8 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

A11 The 30 to 40cm layer is a little lighter in colour than the layer above but is not sufficiently light to be called an A2 horizon. At 40cm on top of the textured B horizon there is a shallow layer of gravel composed of ironstone and quartz.

A12 Site is near crest of lateritic jumpup.

Observation Notes

Parent Rock: , , Pilliga Sandstone, weathered

Site Notes

Observation ID: 1

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
			Ca	Mg	K				
0 - 0.02	5.77A	0.055A	2.7B	1.99	0.73	<0.01			
0 - 0.1	5.83A	0.072A	1.6B	1.26	0.7	0.04			
0.1 - 0.2	5.68A	0.041A	1.38B	1.28	0.49	0.03			
0.3 - 0.4	5.84A	0.033A	0.36B	1.28	0.21	0.17			
0.4 - 0.5	5.91A	0.065A	0.28B	5.47	0.52	1.01			
0.7 - 0.8	5.92A	0.315A	<0.1B	6.48	0.5	1.77			
1.2 - 1.3	6A	0.526A	<0.1B	5.83	0.52	2.27			
2.4 - 2.5	5.39A	0.589A	<0.1B	3.55	0.36	1.85			

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7B1	Water soluble nitrate - automated colour
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method