

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed232 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: E. Veldhuis	Locality: stock route, at Myall Vale
Date Desc.: 10/05/85	Elevation: 200 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6654700 AMG zone: 55	Runoff: No Data
Easting/Lat.: 750250 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: Very gently sloped
Slope: 1 %	Aspect: 190 degrees

Surface Soil Condition (dry): Surface crust, Poached

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Ug5.15
	Great Soil Group: Grey clay

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); , 10YR31, 2-10% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 2-5 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 6.5 (pH meter); Common, very fine (0-1mm)
A12	0.1 - 0.22 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); , 10YR31, 2-10% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Very firm consistence; Field pH 7 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Smooth change
2A11	0.22 - 0.55 m	Very dark grey (10YR3/1-Moist); , 10YR43, 0-2% , 0-5mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 7.6 (pH meter); Common, coarse (>5mm) roots;
2A12	0.55 - 0.82 m	Dark brown (10YR3/3-Moist); , 10YR31, 20-50% , 5-15mm, Distinct; , 10YR52, 0-2% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.2 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
2B21	0.82 - 1.35 m	Brown (7.5YR4/4-Moist); , 10YR31, 10-20% , 0-5mm, Distinct; , 10YR53, 2-10% , 5-15mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.2 (pH meter); Common, very fine (0-1mm) roots;
2B22	1.35 - 2.99 m	Strong brown (7.5YR5/6-Moist); , 5YR34, 10-20% , 0-5mm, Faint; , 10YR31, 0-2% , 0-5mm, Distinct; Light clay; Weak grade of structure, 100-200 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

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

Site Notes

The hole is further from the river than shown on the photo.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	6.81A	0.265A	15.93B	9.67	4.24	0.11			
0 - 0.1	6.83A	0.173A	12.79B	9.32	3.56	0.22			
0.1 - 0.2	7.43A	0.088A	14.12B	8.469999	2.36	0.23			
0.3 - 0.4	7.99A	0.075A	20.29B	13.02	1.31	0.39			
0.7 - 0.8	8.78A	0.095A	16.83B	16.43	1.16	0.79			
1.2 - 1.3	8.8A	0.172A	15.24B	18.46	0.65	0.82			
2.5 - 2.6	8.53A	0.076A	12.36B	17.54	0.42	0.71			

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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