

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed211 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M. Korevaar	Locality:	stock route, at Waugan tank
Date Desc.:	02/04/85	Elevation:	208 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6672000 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	756800 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:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug6.4
		Great Soil Group:	Grey clay

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.06 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); ; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded tabular, Quartz, coarse fragments; Field pH 6.2 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.06 - 0.3 m	Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 7 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A13	0.3 - 0.55 m	Very dark grey (10YR3/1-Moist); , 10YR81, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, 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;
A14	0.55 - 1.17 m	Brown (7.5YR4/2-Moist); , N30, 0-2% , 0-5mm, Faint; , 10YR72, 0-2% , 0-5mm, Faint; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Gypseous, Medium (2 - 6 mm), Crystals; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	1.17 - 1.74 m	Greyish brown (10YR5/2-Moist); , 5R31, 2-10% , 0-5mm, Faint; , 10YR83, 0-2% , 0-5mm, Faint; Medium clay; Moderate grade of structure, 20-50 mm, Lenticular; Weak 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; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.7 (pH meter); Clear, Smooth change to -
B22k	1.74 - 2.63 m	Dark reddish brown (5YR3/2-Moist); , 5R31, 2-10% , 0-5mm, Faint; , 10YR82, 2-10% , 15-30mm, Distinct; Medium clay; Strong 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; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), , Fine (0 - 2 mm), Veins; Field pH 8.2 (pH meter);

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Morphological Notes

Observation Notes

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

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.02	7.17A	0.059A	10.89B	6.59	0.98	1.04				
0 - 0.06	6.59A	0.095A	8.780001B	4.68	1.14	0.98999				
0.1 - 0.2	7.7A	0.085A	18.91B	7.96	0.45	2.7				
0.3 - 0.4	9.03A	0.391A	19.8B	8.41	0.36	5.86				
0.7 - 0.8	7.99A	3.27A	22.93B	11.22	0.87	9.16				
1.2 - 1.3	8.72A	0.82A	28.03B	12.06	0.98999	10.18				
2.5 - 2.6	8.8A	0.772A	24.66B	10.77	0.91	10.7				

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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