

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed121 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.M. Roberts	Locality:	Frank Griffiths, Myall Valley
Date Desc.:	08/10/85	Elevation:	366 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6662500 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	782800 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:	Hillcrest	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	240 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Uc2.12
		Great Soil Group:	No suitable

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); Grey (10YR6/1-Dry); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
A21	0.1 - 0.25 m	Light yellowish brown (10YR6/4-Moist); ; Loamy sand; Single grain grade of structure, 100-200 mm; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; 0-2%, coarse gravelly, 20-60mm, rounded tabular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots;
A22	0.25 - 0.47 m	Yellowish brown (10YR5/6-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; 2-10%, coarse gravelly, 20-60mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smooth
D1	0.47 - 1 m	Pinkish yellow (7.5YR8/2-Moist); , 7.5YR66, 20-50% , 30-mm, Prominent; Sand; Massive grade of structure; Earthy fabric; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 5.5 (pH meter);
D2	1 - 1.83 m	Pinkish yellow (7.5YR8/2-Moist); , 7.5YR66, 20-50% , 30-mm, Prominent; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Earthy fabric; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 5 (pH meter);

Morphological Notes

A1	0-20 few iron-enriched gravels 10mm diam. Great soil group: deep lithosol? Profile earthy sand containing large quartz gravels to 25mm with sharp boundary to strongly bedded sandstone. (Colluvium over sandstone in situ). At junction of buri
A21	al there is 10mm ferruginous pan. Soil description had for strength below 47cm on original record.

Observation Notes

Parent Rock: residual, sandstone, Pilliga Sandstone

Site Notes

60cm sand on sandstone, with reddish rind at contact.

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Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.02	5.93A	0.024A	0.23B	0.22	0.28	<0.01			
0 - 0.1	6.01A	0.033A	0.52B	0.1	0.16	<0.01			
0.1 - 0.2	5.51A	0.021A	0.14B	<0.1	0.16	<0.01			
0.3 - 0.4	5.8A	0.012A	<0.1B	0.16	0.18	<0.01			
0.7 - 0.8	5.88A	0.008A	<0.1B	0.27	0.03	<0.01			
1.2 - 1.3	5.53A	0.008A	<0.1B	<0.1	0.01	<0.01			

[illegible]

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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