

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed136 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.M. Roberts	Locality: Forestry Commission of NSW, Bobbiwaa State Forest
Date Desc.: 29/04/85	Elevation: 268 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6660300 AMG zone: 55	Runoff: No Data
Easting/Lat.: 775800 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: Pediment	Slope Category: Level
Slope: 0 %	Aspect: No Data

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: Ug6.21
	Great Soil Group: No suitable

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.06 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded tabular, Quartz, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.06 - 0.25 m	Yellowish brown (10YR5/4-Moist); Pale brown (10YR6/3-Dry); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, rounded tabular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, coarse (>5mm) roots;
A13	0.25 - 0.55 m	Yellowish brown (10YR5/4-Moist); Yellowish brown (10YR5/4-Dry); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Very strong consistence; 0-2%, coarse gravelly, 20-60mm, rounded tabular, Quartz, coarse fragments; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Veins; Field pH 6 (pH meter);
A14	0.55 - 0.83 m	Brownish yellow (10YR6/6-Moist); ; Medium heavy clay; Massive grade of structure; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Smooth-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 tabular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse change to -
B21	0.83 - 1.22 m	Brown (10YR4/3-Moist); , 10YR81, 2-10% , 0-5mm, Distinct; , 10YR31, 2-10% , 0-5mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular 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; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Sharp,
B22	1.22 - 1.9 m	Brown (10YR5/3-Moist); , 10YR56, 0-2% , 0-5mm, Distinct; , 10YR81, 0-2% , 0-5mm, Distinct; Light clay; Massive grade of structure; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, rounded tabular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter);

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B23 1.9 - 2.62 m Light brownish grey (10YR6/2-Moist); , 10YR56, 0-2% , 0-5mm, Distinct; , 10YR21, 0-2% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Single grain grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, rounded tabular, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

Parent Rock: , , Pilliga Sandstone

Site Notes

A solodic soil. Nearby ridges consist of shallow ferruginous sandstone with mottled yellow earths. Pale yellow sandy soils occur in depressions on slopes and browner patches on the better-drained knolls and clayier parent materials.

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Project Code: EDCERO1 Site ID: 3a
Agency Name: CSIRO Division of Soils (QLD)

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	6.72A	0.058A	3.8B	1.65	0.67	0.01			
0 - 0.06	6.78A	0.087A	6.57B	6.55	0.83	0.34			
0.1 - 0.2	6.2A	0.123A	7.53B	7.04	0.68	1			
0.3 - 0.4	6.32A	0.277A	7.51B	9.75	0.43	1.79			
0.7 - 0.8	8.4A	0.453A	4.8B	8.96	0.36	1.87			
1 - 1.1	9.17A	0.59A	5.34B	9.809999	0.41	2.95			
1.22 - 1.3	9.3A	0.455A	3.51B	6.97	0.37	2.35			
2.5 - 2.6	9.32A	0.333A	2.28B	5.25	0.25	1.99			

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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