

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** na032 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: Mrs H. Barton, Round Swamp
Date Desc.: 02/02/88	Elevation: 199 metres
Map Ref.: Sheet No. : 8837_S 1:50000	Rainfall: No Data
Northing/Long.: 6649170 AMG zone: 55	Runoff: No Data
Easting/Lat.: 745710 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: Lake	Slope Category: Level
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark brown (10YR2/2-Moist); Dark grey (10YR4/1-Dry); ; Light clay; Moderate grade of structure, 2-5 mm, Granular; Massive grade of structure; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A12	0.1 - 0.2 m	Very dark grey (5Y3/1-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Tubules; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
C	0.2 - 0.45 m	(N4/0-Moist); , 10YR31, 2-10% , 5-15mm, Faint; Medium clay; Massive grade of structure; Weak grade of structure, 100-200 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Very few (0 - 2 %), Other, Fine (0 - 2 mm), Soft segregations; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
	0.45 - 1.04 m	(N5/0-Moist); , 10YR53, 2-10% , 0-5mm, Faint; Heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Firm consistence; Very few (0 - 2 %), Ferruginous-organic, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

A11 Round Swamp 2. The difference between A1 and G is mostly in mottle frequency. The mottles at 20-40cm are jarositic, but most now are ferruginous. The mottles at 70-80cm are very faint.

Observation Notes

Parent Rock: , , parna in swamp

Site Notes

Agency Name: CSIRO Division of Soils (QLD)

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 - 0.1	6.66A	0.397A	7.89B	5.82	2.06	0.61				
0.1 - 0.2	6.46A	0.149A	7.02B	3.87	1.76	0.48				
0.3 - 0.4	6.73A	0.107A	9.64B	6.05	2.02	0.65				
0.7 - 0.8	7.37A	0.072A	12.47B	7.07	2.77	0.76				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0.2B	2.06C	42.9J									
0.1 - 0.2	<0.1B	0.78C	13.6J									
0.3 - 0.4	<0.1B	0.43C	6.1J									
0.7 - 0.8	<0.1B	0.31C	1.1J									

[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