

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed408 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	W.T. Ward	<b>Locality:</b>	Twynam Pastoral Co., Boolcarrol
<b>Date Desc.:</b>	18/12/85	<b>Elevation:</b>	188 metres
<b>Map Ref.:</b>	Sheet No. : 8837_N 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6674800 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	742370 Datum: AGD66	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Terrace plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	180 degrees

**Surface Soil Condition (dry):** Self-mulching

**Erosion:**

**Soil Classification**

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

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A11g	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Clear, Smooth change to -
A12g	0.15 - 0.8 m	Very dark greyish brown (10YR3/2-Moist); , 10YR63, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Diffuse, Smooth change to -
B2g	0.8 - 0.99 m	Brown (7.5YR4/4-Moist); , 10YR32, 2-10% , 15-30mm, Distinct; , 10YR63, 0-2% , 0-5mm, Prominent; Heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;

**Morphological Notes**

**Observation Notes**

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

**Site Notes**

Profile R8. Full easting, northing, elevation: 42366.74796.188.05m.

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Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity		
m		dS/m				Cmol (+)/kg			%

0 - 0.15  
0.15 - 0.8  
0.8 - 0.99

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.15  
0.15 - 0.8  
0.8 - 0.99

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0.00	0.00	100	100	100	100	100	100	100	0.00	0.00
0.05	0.00	100	100	100	100	100	100	100	0.00	0.00
0.10	0.00	100	100	100	100	100	100	100	0.00	0.00
0.15	0.00	100	100	100	100	100	100	100	0.00	0.00
0.20	0.00	100	100	100	100	100	100	100	0.00	0.00
0.25	0.00	100	100	100	100	100	100	100	0.00	0.00
0.30	0.00	100	100	100	100	100	100	100	0.00	0.00
0.35	0.00	100	100	100	100	100	100	100	0.00	0.00
0.40	0.00	100	100	100	100	100	100	100	0.00	0.00
0.45	0.00	100	100	100	100	100	100	100	0.00	0.00
0.50	0.00	100	100	100	100	100	100	100	0.00	0.00
0.55	0.00	100	100	100	100	100	100	100	0.00	0.00
0.60	0.00	100	100	100	100	100	100	100	0.00	0.00
0.65	0.00	100	100	100	100	100	100	100	0.00	0.00
0.70	0.00	100	100	100	100	100	100	100	0.00	0.00
0.75	0.00	100	100	100	100	100	100	100	0.00	0.00
0.80	0.00	100	100	100	100	100	100	100	0.00	0.00
0.85	0.00	100	100	100	100	100	100	100	0.00	0.00
0.90	0.00	100	100	100	100	100	100	100	0.00	0.00
0.95	0.00	100	100	100	100	100	100	100	0.00	0.00
1.00	0.00	100	100	100	100	100	100	100	0.00	0.00
1.05	0.00	100	100	100	100	100	100	100	0.00	0.00
1.10	0.00	100	100	100	100	100	100	100	0.00	0.00
1.15	0.00	100	100	100	100	100	100	100	0.00	0.00
1.20	0.00	100	100	100	100	100	100	100	0.00	0.00
1.25	0.00	100	100	100	100	100	100	100	0.00	0.00
1.30	0.00	100	100	100	100	100	100	100	0.00	0.00
1.35	0.00	100	100	100	100	100	100	100	0.00	0.00
1.40	0.00	100	100	100	100	100	100	100	0.00	0.00
1.45	0.00	100	100	100	100	100	100	100	0.00	0.00
1.50	0.00	100	100	100	100	100	100	100	0.00	0.00
1.55	0.00	100	100	100	100	100	100	100	0.00	0.00
1.60	0.00	100	100	100	100	100	100	100	0.00	0.00
1.65	0.00	100	100	100	100	100	100	100	0.00	0.00
1.70	0.00	100	100	100	100	100	100	100	0.00	0.00
1.75	0.00	100	100							

0 - 0.15  
0.15 - 0.8  
0.8 - 0.99

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Laboratory Analyses Completed for this profile