

Project Name: NC
Project Code: NC **Site ID:** C405 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	2KM south of Cedar Pt. on Casino/Kyogle Road above Richmond River floodplain
Date Desc.:	25/03/59	Elevation:	50 metres
Map Ref.:	Sheet No. : 9440 1:100000	Rainfall:	1110
Northing/Long.:	153	Runoff:	Moderately rapid
Easting/Lat.:	-28.6833333333333	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	120 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red earth
No analytical data are available but confidence is fair.			

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, angular, Quartz

Profile Morphology

A	0 - 0.17 m	Dark brown (7.5YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions;
A	0.17 - 0.4 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions;
AB	0.4 - 0.56 m	Reddish brown (2.5YR4/4-Moist); ; 5YR44, 20-50% ; , 20-50% ; Sandy clay loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions;
B	0.56 - 0.81 m	Dark red (2.5YR3/6-Moist); ; Silty light clay; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions;
B	0.81 - 1.22 m	Dark red (2.5YR3/6-Moist); ; Silty light clay; Massive grade of structure; Moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions;
B	1.22 - 1.78 m	Red (2.5YR4/8-Moist); ; Silty light clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions;
B	1.78 - 2.11 m	Red (10R4/8-Moist); ; 2.5YR48, 20-50% ; , 20-50% ; Light clay; Massive grade of structure; Moist; Very weak consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions;
BC	2.41 - 2.87 m	Red (10R4/8-Moist); ; 2.5YR48, 20-50% ; , 7.5YR60, 20-50% ; Clay loam; Massive grade of structure; Moist; Firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions;
BC	2.87 - 3.25 m	Red (10R4/8-Moist); ; 2.5YR48, 20-50% ; , 2.5YR60, 20-50% ; Clay loam; Massive grade of structure; Moist; Very firm consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions;

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BC 3.4 - 3.66 m Red (10R4/8-Moist); , 2.5Y68, 20-50% ; , 20-50% ; Clay loam; Massive grade of structure; Moist;
Very firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions;

Morphological Notes

Observation Notes

LATERITIC RED EARTH:ALLUV:0-178 RED EARTH:178-241 LATERITE NODULAR ZONE:241-340 MOTTLED:340-366
PALLID ZONE:WORMY TO 40C

Site Notes

KYOGLE

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Laboratory Test Results:

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

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

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

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Laboratory Analyses Completed for this profile