Project Name:	Soils of the Lo	ower Macqua	arie Val	ey, New South Wales	
Project Code:	Macquarie	Site ID:	502	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (A	(CT)		

		-	-	
Site Information	n			
Desc. By:	N.J. McKenzie		Locality:	
Date Desc.:	30/11/85		Elevation:	١
Map Ref.:	Sheet No. : 8434	1:10000	Rainfall:	١
Northing/Long.:	6472400 AMG zon	e: 55	Runoff:	5
Easting/Lat.:	575840 Datum: A	GD66	Drainage:	١
Geology				
ExposureType:	Soil pit		Conf. Sub. is Pare	ent
Geol. Ref.:	No Data		Substrate Materia	d:
Land Form				
Rel/Slope Class:	No Data		Pattern Type:	1
Morph. Type:	Mid-slope		Relief:	1
Elem. Type:	No Data		Slope Category:	1
Slope:	%		Aspect:	1
Surface Soil Co	ndition (dry): H	lardsetting		
Erosion:				
	_			

Soil Classification

Australian Soil Classification:

N/A

ASC Confidence:

Confidence level not specified

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - None Recorded

No Data No Data

No Data

No Data

No Data

No Data

Principal Profile Form:

Great Soil Group:

Well drained

No Data

No Data

OLD ALLUVIUM

Gn4.12

N/A

MEANDER PLAIN

Slow

Parent. Mat.:

Mapping Unit:

Surface Coarse Fragments:

Profile	Morphology	
A11	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Gradual, Smooth change to -
A12	0.1 - 0.45 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moist; Weak consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.45 - 0.85 m	Yellowish red (5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20%), Ferruginous, Medium (2 -6 mm), Nodules; Common (10 - 20%), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B22	0.85 - 1.35 m	Red (2.5YR4/6-Moist); , 5YR56, 20-50% , 5-15mm, Faint; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes A11

Quite a few biopores and chambers in A12/B21

Observation Notes Gin Gin Soil Profile Class

Site Notes

Project Name:	Soils of the Lov	wer Macqua	arie Valley, New	South Wales	
Project Code:	Macquarie	••		Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	ACT)		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable /Ig	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m			it.	Cmol (+				%
0.1 - 0.15 0.3 - 0.35	7.7A 7.4A	0.041A 0.022A	3.8E	0.5	0.3	0.2			4.8D	
0.7 - 0.75 1.3 - 1.35	7.8A 7.9A	0.018A 0.022A	5.3E	1.1	0.6	0			7D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	e Size A FS	nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	07 00	%	Sint Ciay
0.1 - 0.15 0.3 - 0.35							1.56 1.64	29	A 40	12.1 18.8
0.7 - 0.75 1.3 - 1.35							1.73 1.75	28.7	A 32.9	9.5 29.5

Depth	COLE	Gravimetric/Volumetric Water Contents		K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.008A 0.022A 0.017A 0.017A	0.07G0.07D0.14G0.07D0.14G0.1D0.15G0.11D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 502Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm3
P3B1GV_15	15 BAR Moisture g/g - Gravimetric of ground sample (<2mm) using pressure plate
P3B4GV_01	0.1 BAR Moisture g/g - Gravimetric of soil clods (Soil Survey Staff,1967)
P5_COLE	Coefficient of Linear Extensibility (Grossman et al. 1968)