Project Name:	Soils of the Lo	wer Macqua	arie Vall	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio			Observation ID:	1

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Desc. B Date De Map Re	sc.: f.: g/Long.: /Lat.: I <u>V</u> reType:	N.J. McKenzie 28/07/85 Sheet No. : 8434 1:10000 6464240 AMG zone: 55 587940 Datum: AGD66 Soil pit No Data	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Material			a	
Morph. Elem. Ty Slope:	be Class: Type: ype:	No Data No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data			
Surface Erosio		ndition (dry): Hardsetting					
	assificati	<u>on</u> assification:	Manni	ng Unit:		OLD ALLUVIUM	
N/A		assincation.		•		MEANDER PLAIN	
Principal Profile Form: Dr2.43 ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated Vegetation: Vegetation:							
Surface	e Coarse	Tall Strata - Tussock grass, 0.: Fragments:	26-0.5m, Sparse. *Sp	ecies include	es - Nor	ne Recorded	
	Morphol						
A1	0 - 0.22 n	mm, Subangular blocky; E macropores, Many (>5 per (2-5mm) macropores, Mois	Dark reddish brown (5YR3/4-Moist); ; Sandy clay (Light); Moderate 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 6 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Clear, Smooth change to -				
A2	0.22 - 0.2	 Reddish brown (5YR4/4-Moist); ; Sandy clay (Light); 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; Clear, Smooth change to - 					
B21	0.29 - 0.6	ped fabric; Few (<1 per 10 Common cutans, 10-50% d	Red (2.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth- ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common cutans, 10-50% of ped faces or walls coated; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Diffuse, Irregular change to -				
B22k	0.6 - 1.5 r	Smooth-ped fabric; Few (< moist; Firm consistence; C cutans, 10-50% of ped face	Red (2.5YR4/5-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9 (Raupach); Few, very fine (0-1mm) roots;				
	Morphological Notes						
B22k		Concretionary CaCO3					

B22k

Concretionary CaCO3

Observation Notes Mitchell Soil Profile Class, Poorly Drained Phase, Minor (20cm?) undulations

Site Notes

Project Name:	Soils of the Lov	wer Macqua	arie Valley,	New South Wales
Project Code:	Macquarie	Site ID:		Observation ID: 1
Agency Name:	CSIRO Divisior	n of Soils (A	NCT)	

Laboratory Test Results:

Depth	рН	1:5 EC		angeable Ig	Cations K	Ex Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca N	ng	ĸ	Cmol (+)/I				%
0.1 - 0.15 0.3 - 0.35	6A 8.5A	0.033A 0.108A	0.5E	0.1	0.2	0.1			0.9D	
0.7 - 0.75 1.3 - 1.35	8.9A 9A	0.371A 0.683A	3.1E	5.8	0.4	3.9			13.2D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Partic GV C	S FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0.1 - 0.15 0.3 - 0.35							1.68 1.74	34	I.7A 39.	2 12.6 13.5
0.7 - 0.75 1.3 - 1.35							1.66 1.64	20).5A 24.	1 9.1 46.2
Depth	COLE	6-4				ater Conte			K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h

0.1 - 0.15	0.023A	0.09G	0.04D
0.3 - 0.35	0.057A	0.15G	0.14D
0.7 - 0.75	0.036A	0.17G	0.14D
1.3 - 1.35	0.049A	0.18G	0.19D

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 310Observation 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)