Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	318	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (A	ACT)		

Desc. E Date D Map Re Northir Easting Geolo	esc.: ef.: ng/Long.: g/Lat.: <u>gV</u> ureType: Ref.:	N.J. Mck 29/07/85 Sheet No 6466500	5 lo. : 8434) AMG zon Datum: A		Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. i Substrate M				a
Rel/Slo Morph. Elem. 1 Slope:	ope Class: . Type: Type:	Mid-slop No Data %	pe a		Pattern Typ Relief: Slope Cates Aspect:		No Data No Data No Data No Data		
<u>Surfac</u>	ce Soil Co	ondition	<u>(dry):</u> F	irm, Surface cru	ust				
Erosic									
	lassificat								
Austra N/A	lian Soil C	lassificat	tion:			Mappir	ng Unit:		OLD ALLUVIUM MEANDER PLAIN
11/7						Princip	al Profile	Form:	Dr3.12
	onfidence					Great S	Soil Group) :	N/A
	ence level i isturbanc	•		ng, for example	noisonina rir	naharkin	a		
Vegeta				ng, for example	poisorning, m	igourian	9		
		Tall S	Strata - Tre	e, 12.01-20m, S	Sparse. *Spec	ies inclu	ides - Euc	alyptus p	oopulnea
	ce Coarse		ents:						
	Morpho								
A1	0 - 0.21 r	P pe M	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 20-50 mm, Polyhedral; 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 6.5 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1- 2mm) roots; Many, medium (2-5mm) roots; Gradual, Smooth change to -					mm) macropores, Many (>5 ium (2-5mm) macropores, 0-1mm) roots; Many, fine (1-	
B21	0.21 - 0.4	s (C 0. f (1	structure, 2 0.075-1mm 0.01m2) Me faces or wa	20-50 mm, Polył) macropores, C dium (2-5mm) r alls coated; Fielo ots; Common, m	nedral; Smoot Common (1-5 nacropores, M d pH 7 (Raupa	h-ped fa per 100 /loist; Fil ach); Co	abric; Com mm2) Fine rm consiste mmon, ve	mon (1-5 e (1-2mm ence; Co ry fine (0	Medium clay; Strong grade of per 100mm2) Very fine macropores, Few (<1 per mmon cutans, 10-50% of ped -1mm) roots; Common, fine (>5mm) roots; Diffuse,
B22	0.42 - 0.8	of m cc C	f structure, 100mm2) \ nacropores onsistence Calcareous,	10-20 mm, Ang /ery fine (0.075- , Few (<1 per 0. ; Common cutal	jular blocky; Š -1mm) macrop .01m2) Mediu ns, 10-50% of nm), Nodules;	Smooth- pores, F m (2-5m f ped fac ; Field p	ped fabric; ew (<1 pe nm) macro ces or wall H 8 (Raup	Fine, (0 r 100mm pores, M s coated ach); Co	Medium clay; Strong grade - 5) mm crack; Few (<1 per 2) Fine (1-2mm) loderately moist; Firm ; Few (2 - 10 %), mmon, very fine (0-1mm)
B23	0.85 - 1.3	gi fii pi pi 11	· · · · · · · · ·					on (1-5 per 100mm2) Very 2mm) macropores, Few (<1 Common cutans, 10-50% of 6 mm), Nodules; Few (2 - anganiferous, Medium (2 -6	

Morphological Notes

Observation Notes

Mitchell Soil Profile Class, Moderately Drained Phase Site Notes

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Laboratory Test Results:

Depth m	рН	1:5 EC Ca dS/m		hangeable Mg	Cations K	Exchangeable Na Acidity Cmol (+)/kg	CEC	ECEC	ESP %
0.1 - 0.15 0.3 - 0.35	6.8A 7.7A	0.04A	1.6E	0.5	0.5	0.1		2.7D	
0.7 - 0.75 1.3 - 1.35	8.3A 8.5A	0.137A 8 0.162A	8.1E	3	1.6	0.2		12.9D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size A	nalysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.49 1.49		17.1A	40.7	16	26.2
0.7 - 0.75 1.3 - 1.35							1.61 1.60		19.1A	26.8	13	41.1

Depth	COLE	Grav	Gravimetric/Volumetric Water Contents					
m		Sat. 0.05 Bar	0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3	5 Bar 15 Bar	mm/h	mm/h		
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.047A 0.067A 0.041A 0.033A		0.16G 0.24G 0.17G 0.19G	0.08D 0.17D 0.12D 0.14D				

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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)