Project Name:	Soils of the Lo	wer Macqu	arie Vall	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (/	308 ACT)	Observation ID:	1

Site Informatio	<u>n</u>				
Desc. By:	N.J. McKenzie	Locality:			
Date Desc.:	25/07/85	Elevation:	No Data		
Map Ref.: Northing/Long.:	Sheet No. : 8434 1:10000 6463680 AMG zone: 55	Rainfall: Runoff:	No Data Slow		
Easting/Lat.:	587780 Datum: AGD66	Drainage:	Moderately	, well du	rained
Geology	Sorroo Datam. AGDoo	Dramage.	woodchatery		
ExposureType:	Soil pit	Conf. Sub. is Pare	nt Mat ·	No Data	2
Geol. Ref.:	No Data	Substrate Material		No Data	
Land Form		•	-		-
Rel/Slope Class:	No Data	Pattern Type:	No Data		
Morph. Type:	Flat	Relief:	No Data		
Elem. Type:	No Data	Slope Category:	No Data		
Slope:	%	Aspect:	No Data		
Surface Soil C	ondition (dry): Hardsetting, Sur	face crust			
	al, Minor or present (wind);				
Soil Classificat					
Australian Soil C	lassification:	Маррі	ng Unit:		OLD ALLUVIUM MEANDER PLAIN
N/A		Princi	pal Profile F		Gn4.15
ASC Confidence		•	Soil Group:		N/A
Confidence level		Great	Son Group.		N/A
	ce: Complete clearing. Pasture, na	tive or improved but	never cultive	hated	
Vegetation:	<u>se.</u> complete cleaning. Pasture, na			aicu	
vegetation.	Tall Strata - Hummock grass, <	-0.25m Sharse *She	cies include	s - Non	e Recorded
Surface Coars	<b>°</b>	(0.2011), Opuise. Ope			
Profile Morpho					
		alat) Canaly alay laa			tru et une 00 50 mm
A11 0 - 0.18					tructure, 20-50 mm, ny fabric; Common (1-5 per
	100mm2) Very fine (0.075-				
	macropores, Few (<1 per 0				
	consistence; Field pH 6.5 (				
	2mm) roots; Clear, Smooth	change to -			
A2 0.19 0	45 m Vallowich rod (EVP2/7 Mai	ot): Doddiah vallaw (F	VDE/7 Drul	· Sand	v alav: Madarata grada of
A2 0.18 - 0.	45 m Yellowish red (5YR3/7-Mois structure, 20-50 mm, Subar				
					n) macropores, Few (<1 per
	0.01m2) Medium (2-5mm)				
	faces or walls coated; Field				
	2mm) roots; Gradual, Smoo	oth change to -			
B21 0.45 - 0.	8 m Red (2.5YR4/6-Moist); ; Me	dium clav: Strong ar	ada of struct	uro 20-	50 mm Angular blocky:
BZ1 0.45 - 0.	Rough-ped fabric; Few (<1				
					(2-5mm) macropores, Moist;
	Firm consistence; Many cu				
	Common, fine (1-2mm) roo	ts; Diffuse, Smooth c	hange to -		
B22 0.8 - 1.3	5 m Dark red (10R3/6-Moist); ;	Medium clay: Strong	arada of otra	icturo (	0.50 mm Angular blocky
DZZ 0.0 - 1.3	Rough-ped fabric; Moderati				
	walls coated; Very few (0 -				
	(Raupach); Few, very fine (		(· _ · · · ·	,,	5 5 F F
Manual		. , ,			
Morphological		h Dundor ald trace 0.6	0 100	» M	at to around QEars
B22	Further some CO3 along pit	. ?under old tree? @	∉ ~30-100CN	11. IVIOI	SU LO AFOUNO 85CM

Observation Notes Mitchell Soil Profile Class, Moderately Drained Phase

Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (A	308 (CT)	Observation ID:	1
0,		•	,		

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Ng	Cations K	E Na	xchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca i	ng	N	Cmol (+)				%
0.1 - 0.15	6.5A 6.8A	0.038A 0.021A	0.3E	0.1	0.4	0.1			0.9D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	8.5A 8.7A	0.021A 0.051A 0.073A	6.2E	3.6	0.6	0.5			10.9D	
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV CS		Analysis Silt Clay
0.1 - 0.15 0.3 - 0.35							1.77 1.68	26.9	9A 40.9	9 15.9 16.3
0.7 - 0.75 1.3 - 1.35							1.69 1.66	16.4	4A 25.2	9.9 48.5
Depth	COLE	Sat.		imetric/Vo 0.1 Bar		/ater Cont 1 Bar		K Bar	sat	K unsat

Depui	COLL	Gravimetric/Volumetric Water Contents						Gravimetric/volumetric water contents					n sat	n unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar						
m				g	/g - m3/m3	3			mm/h	mm/h				
				-	-									
0.1 - 0.15	0.026A			0.12G				0.05D						
0.1 - 0.15	0.020A			0.120				0.05D						
0.3 - 0.35	0.031A			0.1G				0.06D						
0.7 - 0.75	0.042A			0.17G				0.14D						
								-						
1.3 - 1.35	0.04A			0.18G				0.15D						

## Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 308Observation 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)