Project Name:	Soils of the Lo	wer Macqua	arie Vall	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (/	336 ACT)	Observation ID:	1

Site Information

Site Informatio	<u>n</u>						
Desc. By:	N.J. McKenzie	Locality:					
Date Desc.:	04/09/85	Elevation:	No Data				
Map Ref.:	Sheet No. : 8434 1:10000	Rainfall:	No Data				
Northing/Long.:	6470367 AMG zone: 55	Runoff:	Moderately r				
Easting/Lat.:	591733 Datum: AGD66	Drainage:	Well drained				
<u>Geology</u>							
ExposureType:	Soil pit	Conf. Sub. is Pare		o Data			
Geol. Ref.:	No Data	Substrate Material	: , ſ	, No Data			
Land Form							
Rel/Slope Class:	No Data	Pattern Type:	No Data				
Morph. Type:	Crest	Relief:	No Data				
Elem. Type:	No Data	Slope Category:	No Data				
Slope:	%	Aspect:	No Data				
Surface Soil Co	ondition (dry): Firm						
Erosion:							
Soil Classificat	<u>ion</u>						
Australian Soil C	lassification:	Mannii	ng Unit:	TRANGIE			
N/A		Mappi	ig ont.				
				OOW/(E/			
		Princir	al Profile Fo	rm: Gn2.12			
ASC Confidence			Soil Group:	N/A			
Confidence level		Great	Son Group.				
	ce: Complete clearing. Pasture, nat	ive or improved outi	voted at come	otogo			
	.e. Complete cleaning. Pasture, nat	ive of improved, cult	valeu al some	slage			
Vegetation:		OFm Middanaa *Or	a alia a lin ali vala.	News Deserves	-		
Surface Coore	Tall Strata - Tussock grass, <0.	zom, mid-dense. Sp		s - None Recorde	u		
Surface Coarse							
Profile Morpho							
A1 0 - 0.2 m	()						
	Subangular blocky; Earthy f						
	Many (>5 per 100mm2) Fine						
	macropores, Moist; Very we			icn); iviany, very fi	ne (0-1mm)		
	roots; Many, fine (1-2mm) ro	ools, Gradual, Smool	n change to -				
B21 0.2 - 0.6	5 m Reddish brown (5YR4/4-Mo	ist); ; Fine sandy clay	loam; Moder	ate grade of struc	ture, 20-50 mm,		
	Subangular blocky; Earthy	fabric; Many (>5 per	100mm2) Vei	y fine (0.075-1mn	n) macropores,		
	Many (>5 per 100mm2) Fine	e (1-2mm) macropore	es, Common (1-5 per 0.01m2) N	ledium (2-5mm)		
	macropores, Moist; Weak co		7.5 (Raupach); Many, very fine	(0-1mm) roots;		
	Diffuse, Smooth change to -	-					
B22 0.65 - 1.2	2 m Strong brown (7.5YR4/6-Mc	vist): · Sandy clay loa	m· Week grad	e of structure 20.	50 mm		
D22 0.03 - 1.	Subangular blocky; Earthy f						
	Many (>5 per 100mm2) Fine						
	macropores, Moist; Very we						
	1mm) roots; Diffuse, Smoot			,,,	-) - (-		
B23 1.2 - 1.4							
	Subangular blocky; Earthy f						
	Many (>5 per 100mm2) Fine						
	macropores, Dry; Very weal Soft segregations; Field pH				(∪ - ∠ 11111),		
	Son segregations, rield pH	o (Raupach), Commo	on, very line (0- mm) 100ts;			
Morphological	<u>Notes</u>						
A1	A uniform very light profile or	n crest					

Observation Notes Wilga Soil Profile Class, Calcic Phase Site Notes

Project Name:	Soils of the Low	er Macqua	rie Valley, New	South Wales	
Project Code: Agency Name:	Macquarie CSIRO Division	••.		Observation ID:	1
Agency Mame.	COINC DIVISION		01)		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ag	Cations K		changeable Acidity	CEC		ECEC	l	ESP
m		dS/m		ng	ĸ	Cmol (+)/k						%
0.1 - 0.15 0.3 - 0.35	7.7A 7.8A	0.056A 0.043A	4.1E	0.8	1.5	0.4				6.8D		
0.7 - 0.75 1.3 - 1.35	8.2A 8.2A	0.026A 0.363A	6.9E	4.1	0.4	0.2				11.6D		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa			nalysi	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.51 1.38		5.1A	58.4	22.3	14.2
0.7 - 0.75 1.3 - 1.35							1.39 1.41		4.8A	55.3	21	18.9

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	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	0.026A 0.034A 0.041A 0.008A	0.19G0.06D0.17G0.08D0.19G0.07D0.21G0.06D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 336Observation 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)