Project Name:	Soils of the Lo	ower Macqua	arie Valle	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (A	137 ACT)	Observation ID:	1

## Site Information

Desc. By: Date Desc.: Map Ref.: Northing/Long. Easting/Lat.: <u>Geology</u> ExposureType: Geol. Ref.:	N.J. McKenzie 05/05/85 1:10000 : 6466512 AMG zone: 55 596667 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Material		
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope: Surface Soil (	s: No Data Flat No Data % <b>Condition (dry):</b> Firm	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Erosion: Soil Classific	ation			
Australian Soil N/A		Маррі	ng Unit:	MACQUARIE ALLUVIUM BACKPLAI
ASC Confiden Confidence leve			pal Profile Form: Soil Group:	Ug5.15 N/A
	<b><u>nce:</u></b> Extensive clearing, for examp Tall Strata - Tree, , . *Species			
Surface Coar	se Fragments:		popullica	
Profile Morph				
A1 0 - 0.1	Subangular blocky; Stron	g grade of structure, 50 n2) Very fine (0.075-1m	)-100 mm, Polyhed m) macropores, St	Iral; Rough-ped fabric; rong consistence; Field pH
B21 0.18 -	Angular blocky; Moderate structure, 100-200 mm, A	e grade of structure, 50- ngular blocky; Smooth s, Very strong consisten	100 mm, Angular I ped fabric; Few (<	de of structure, 20-50 mm, blocky; Moderate grade of 1 per 100mm2) Very fine upach); Common, very fine
B22 0.5 - 1	Angular blocky; Smooth-p	ped fabric; Few (<1 per few (0 - 2 %), Calcared	100mm2) Very find bus, Medium (2 -6	de of structure, 20-50mm, e (0.075-1mm) macropores, mm), Nodules; Field pH 8.5 to -
B23 1.2 - 1	blocky; Smooth-ped fabric consistence; Common (10	c; Few (<1 per 100mm2 0 - 20 %), Calcareous,	2) Very fine (0.075- Medium (2 -6 mm)	ructure, 20-50mm, Angular 1mm) macropores, Strong , Nodules; Common (10 - 20 5 (Raupach); Few, very fine
Morphologica	Il Notes			

B23

Very dark (black) B21 horizon - new

Observation Notes Mullah Soil Profile Class, Black 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
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# Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ng	Cations K	E> Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca i	vig	n	Cmol (+)/				%
0.1 - 0.15 0.3 - 0.35	7.5A 8.3A	0.089A 0.292A	-	3.3	0.3	0.8			9.8D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	8.5A 9.1A	0.292A 0.777A 0.604A	9.5E	7.1	0.3	4.8			21.7D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size Aı FS	nalysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	0
0.1 - 0.15 0.3 - 0.35							1.44 1.29	2.6	A 20.6	24.7 52.1
0.7 - 0.75 1.3 - 1.35							1.52 1.45	0.6	A 17.4	41.3 40.7
Depth	COLE		Grav	imetric/Vo	lumetric V	/ater Conte	ents	к	sat K	unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar		

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		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	0.1A			0.26G				0.19D		
0.1 - 0.15	0.17			0.200				0.130		
0.3 - 0.35	0.13A			0.33G				0.2D		
0.7 - 0.75	0.046A			0.22G				0.17D		
								-		
1.3 - 1.35	0.088A			0.27G				0.19D		

# Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:137Observation 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)