Project Project Agency		Soils of the Lower Macqua Macquarie Site ID: CSIRO Division of Soils (A	142 O	outh Wales bservation ID:	1	
Desc. By Date Des Map Ref	sc.: :: g/Long.: /Lat.:	2 N.J. McKenzie 03/05/85 Sheet No. : 8534 1:10000 6467500 AMG zone: 55 596300 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Very poorly draine	ed	
Exposur Geol. Re	reType:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia			
Morph. T Elem. Ty Slope:	e Class: Type: /pe:	Flat No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data		
Surface Erosior		ndition (dry): Cracking, Hards	setting			
	assificati	<u>on</u> assification:	Manni	ng Unit:	MACQUARIE	
N/A			Mappi	ng onn.	ALLUVIUM BACKPLAI	
180.00	nfidonoo			pal Profile Form:	Ug5.15 N/A	
Confide		: not specified e: Complete clearing. Pasture, na		Soil Group:		
Vegetat			I			
<u>Surface</u>	e Coarse	Tall Strata - Tussock grass, 0. Fragments:	.51-1m, Sparse. "Spec	cies includes - None	Recorded	
Profile	Morphol					
A1	0 - 0.07 n	mm, Subangular blocky; R	lough-ped fabric; Few stence; Field pH 6.5 (F	(<1 per 100mm2) \ Raupach); Field pH	/ery fine (0.075-1mm) 7 (Raupach); Few, very fine	
B21	0.07 - 0.5	8 m Very dark grey (10YR3/1-1 blocky; Smooth-ped fabric strong consistence; Field p roots; Clear, Smooth chan	; Few (<1 per 100mm) oH 8.5 (Raupach); Fev	2) Very fine (0.075-		
B22	0.58 - 0.9	of structure, 20-50 mm, A (0.075-1mm) macropores,	ngular blocky; Smoot Very strong consister) - 2 %), Calcareous, I	h-ped fabric; Few (< hce; Few (2 - 10 %); Fine (0 - 2 mm), Cry		
BC	0.95 - 1.3	5 m Dark red (2.5YR3/6-Moist) blocky; Smooth-ped fabric mm), Nodules; Very few (0	; Strong consistence;	Very few (0 - 2 %),	Calcareous, Fine (0 - 2	
Morphological Notes						
BC		A tricky site; beneath the w aremany carbonate concre descriptions etc except clo	tions beneath the root	- see slide after site		
	ation No					

Byron Soil Profile Class

Site Notes

Project Name:	Soils of the Low	ver Macqua	rie Valley, New	South Wales	
Project Code:	Macquarie	Site ID:		Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CI)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Exchangeal Na Acidity	ble CEC	ECEC	ESP
m		dS/m	Ju	ing	N	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.5A 7.5A	0.064A 0.044A	3.8E	0.9	0.7	0		5.4D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	8A 8.1A	0.044A 0.048A 0.036A	7.9E	2.4	0.7	0.1		11.1D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total Bull K Densi			
m	%	%	mg/kg	%	%	% Mg/m	3	%	

0.1 - 0.151.4628A23.416.532.10.3 - 0.351.570.7 - 0.751.7328.6A27.611.532.31.3 - 1.351.60

Depth	COLE	Gravimetric/Volumetric Water Contents				K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 B g/g - m		15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.037A 0.059A 0.057A 0.054A	0.18G 0.17G 0.13G 0.19G		0.13D 0.13D 0.12D 0.16D		

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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)