Project Code:	Soils of the Lower Macquar Macquarie Site ID: CSIRO Division of Soils (Ad	534 O	outh Wales Observation ID:	1
Site Information				
Desc. By:NDate Desc.:08Map Ref.:SNorthing/Long.:64Easting/Lat.:58	I.J. McKenzie 8/12/85 Sheet No. : 8434 1:10000 480733 AMG zone: 55 81200 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Moderately well d	Irained
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia		
Morph. Type: F Elem. Type: N	No Data Flat No Data % dition (dry): Hardsetting, Surf	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Erosion: Soil Classification				
Australian Soil Clas N/A	ssification:	Маррі	ing Unit:	TRANGIE COWAL ALLUVIUM
ASC Confidence: Confidence level not Site Disturbance:	t specified : Complete clearing. Pasture, nat	Great	pal Profile Form: Soil Group:	Gn3.12 N/A
Vegetation:	Tall Strata - Tussock grass, 0.5			
Surface Coarse F	ragments:			
Profile Morpholog	qv			
A1 0 - 0.18 m	Dark brown (7.5YR3/4-Mois blocky; Earthy fabric; Many 100mm2) Fine (1-2mm) ma	(>5 per 100mm2) Ve cropores, Many (>5 Medium (2-5mm) ma (0-1mm) roots; Man	ery fine (0.075-1mm per 100mm2) Mediu acropores, Moist; W	n) macropores, Many (>5 per um (2-5mm) macropores, eak consistence; Field pH 7
B21 0.18 - 0.65 i	Polyhedral; Smooth-ped fat Many (>5 per 100mm2) Fin macropores, Common (1-5	oric; Many (>5 per 10 e (1-2mm) macropor per 0.01m2) Medium faces or walls coate	00mm2)	0.075-1mm) macropores, 00mm2) Medium (2-5mm) res, Moist; Weak consistence; bach); Common, very fine (0-
B22 0.65 - 1.1 m	Polyhedral; Rough-ped fabr (>5 per 100mm2) Fine (1-2 macropores, Common (1-5 consistence; Common cuta	ric; Many (>5 per 100 2mm) macropores, M per 0.01m2) Mediun ns, 10-50% of ped fa nm), Soft segregatio	0mm2) Very fine (0. Many (>5 per 100mn n (2-5mm) macropo aces or walls coated ns; Field pH 8 (Rau	075-1mm) macropores, Many n2) Medium (2-5mm) res, Moderately moist; Weak l; Few (2 - 10 %), pach); Common, very fine (0-
B23 1.1 - 1.4 m	Brown (7.5YR5/4-Moist); ; \$ Rough-ped fabric; Many (>5 100mm2) Fine (1-2mm) ma Common (1-5 per 0.01m2) cutans, 10-50% of ped face Soft segregations; Field pH	5 per 100mm2) Very cropores, Many (>5 Medium (2-5mm) ma s or walls coated; Fe	fine (0.075-1mm) n per 100mm2) Media acropores, Wet; We ew (2 - 10 %), Calca	nacropores, Many (>5 per um (2-5mm) macropores, ak consistence; Common ureous, Fine (0 - 2 mm),
Morphological No	otes			

A1

Many large infilled root channels in the B22

Observation Notes Byron Soil Profile Class Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 534Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valley, Nev	v South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: n of Soils (<i>A</i>	534 ACT)	Observation ID:	1

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	xchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	Ga	wig	n	Cmol (+)						%
0.1 - 0.15 0.3 - 0.35	6.2A 7.4A	0.039A 0.04A	5.9E	2	0.7	0.1				8.7D		
0.7 - 0.75 1.3 - 1.35	8.6A 8.8A		12.1E	6.5	0.4	0.3				19.3D		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A FS	nalysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.1 - 0.15 0.3 - 0.35							1.48 1.54		4.4A	23.6	38.2	33.9
0.7 - 0.75 1.3 - 1.35							1.47 1.29		0.4A	28.8	38	32.9
Depth	COLE			/imetric/Vo					K s	at I	K unsat	:
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				

m	2	sat. 0.05 Bar 0.1 Bar 0.5 Bar g/g - m3/r	15 Bar	mm/h	mm/h
0.1 - 0.15	0.032A	0.2G	0.12D		
0.3 - 0.35	0.053A	0.23G	0.17D		
0.7 - 0.75	0.053A	0.22G	0.13D		
1.3 - 1.35	0.031A	0.3G	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 3A1 4A1 P10_CF_C P10_CF_CS P10_CF_S P10_CF_Z P3A1 P3B1GV_15 P3B4GV_01 P5_COLE XRD_C_II XRD_C_Kt XRD_C St	Sum of Bases EC of 1:5 soil/water extract pH of 1:5 soil/water suspension Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method Bulk density - g/cm3 15 BAR Moisture g/g - Gravimetric of ground sample (<2mm) using pressure plate 0.1 BAR Moisture g/g - Gravimetric of soil clods (Soil Survey Staff, 1967) Coefficient of Linear Extensibility (Grossman et al. 1968) Illite - X-Ray Diffraction Kaolinite - X-Ray Diffraction Smectite - X-Ray Diffraction