Project Name:	Soils of the L	ower Macqu	arie Valley,	New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID:	335 (CT)	Observation ID:	1
Agency Name.			ACT)		

Site Information

	N.J. McKenzie 03/08/85 Sheet No. : 8434 1:10000 6470100 AMG zone: 55 591700 Datum: AGD66 Soil pit No Data	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Material Pattern Type: Relief: Slope Category: Aspect:		ta		
Soil Classifica						
Australian Soil	Classification:	Маррі	ng Unit:	TRANGIE COWAL ALLUVIUM		
ASC Confidence Confidence leve Site Disturban Vegetation:	not specified <u>ce:</u> Complete clearing. Pasture, r	Great		Ug5.15 N/A		
Surface Coars	Tall Strata - Tussock grass, (0.26-0.5m, Very sparse	. *Species includes	- None Recorded		
Profile Morphe						
A1 0 - 0.1 r	m Brown (7.5YR4/3-Moist); ped fabric; Many (>5 per Fine (1-2mm) macropore	100mm2) Very fine (0.0 s, Few (<1 per 0.01m2) 5 (Raupach); Many, very	075-1mm) macropo) Medium (2-5mm) y fine (0-1mm) root	5-10 mm, Polyhedral; Rough- ores, Many (>5 per 100mm2) macropores, Moist; Firm s; Many, fine (1-2mm) roots;		
B1 0.1 - 0.4	50 mm, Polyhedral; Smo fine (0.075-1mm) macrop per 0.01m2) Medium (2-5	oth-ped fabric; Fine, (0 pores, Common (1-5 pe 5mm) macropores, Mois ed; Field pH 7 (Raupach	- 5) mm crack; Cor r 100mm2) Fine (1 st; Firm consistence); Common, very f	rong grade of structure, 20- nmon (1-5 per 100mm2) Very -2mm) macropores, Few (<1 e; Common cutans, 10-50% of ine (0-1mm) roots; Common, looth change to -		
B21 0.4 - 0.7	Polyhedral; Smooth-ped (0.075-1mm) macropores consistence; Common cu	fabric; Fine, (0 - 5) mm s, Common (1-5 per 100 itans, 10-50% of ped fa 6 mm), Soft segregatior	crack; Common (1 Dmm2) Fine (1-2mr ces or walls coated ns; Field pH 8.5 (Ra	-5 per 100mm2) Very fine n) macropores, Moist; Firm d; Few (2 - 10 %), aupach); Few, very fine (0-		
B22 0.76 - 1	structure, 20-50 mm, Pol (0.075-1mm) macropores moist; Firm consistence; 20 %), Calcareous, Coars	n Brown (7.5YR4/3-Moist); , 7.5YR44, 10-20%, 5-15mm, Faint; Medium clay; Strong grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20%), Calcareous, Coarse (6 - 20 mm), Nodules; Common (10 - 20%), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots;				
<u>Morphologica</u> A1	A few faint brown mottles blown.	in B22. Heavy end me	ember from 332. /	A1 is probably wind		

Observation Notes Ellengerah Soil Profile Class

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 335Observation ID: 1Agency Name:CSIRO Division of Soils (ACT)

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Project Code: Agency Name:	Macquarie CSIRO Division	••		Observation ID:	1
Agency Name.	COILO DIVISION	01 30115 (A	01)		

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ng	Cations K	E: Na	xchangeable Acidity	CEC		ECEC	l	ESP
m		dS/m	5 u 1	ng	N.	Cmol (+)/						%
0.1 - 0.15 0.3 - 0.35	6.5A 8.1A	0.064A 0.094A	2.4E	3.1	1.6	0.4				7.5D		
0.7 - 0.75 1.3 - 1.35	8.1A 7.7A		11.6E	11.8	0.5	3.5				27.4D		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A	nalysi: Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	0.		%	ont	olay
0.1 - 0.15 0.3 - 0.35							1.43 1.49		0.8A	16.7	34.9	47.7
0.7 - 0.75 1.3 - 1.35							1.54 1.51		0.9A	8.6	33.2	57.2

Depth	COLE	Gra	Gravimetric/Volumetric Water Contents				K sat	K unsat
m		Sat. 0.05 Bar	0.1 Bar 0.5 Bar g/g - m3/m	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.029A 0.074A 0.061A 0.045A		0.23G 0.23G 0.21G 0.22G			0.15D 0.18D 0.17D 0.17D		

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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)