#### Project Name: Soils of the Lower Macquarie Valley, New South Wales Project Code: Agency Name: Macquarie Site ID: 346 CSIRO Division of Soils (ACT) Observation ID: 1

Desc. E Date De Map Re	esc.: ef.: ng/Long.: g/Lat.:	N.J. McKenzie 06/09/85 Sheet No. : 8434 1:10000 6473500 AMG zone: 55 591800 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Moderately	well d	rained
	ureType:	Soil pit No Data		Conf. Sub. is Parent. Mat.: No Da Substrate Material: No Da		
Land I Rel/Slo Morph. Elem. 1 Slope:	pe Class: Type:	No Data Lower-slope No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
<u>Surfac</u> Erosio		ndition (dry): Firm				
Soil C	lassificati					
Austral N/A	lian Soil Cl	assification:	Маррі	ng Unit:		MACQUARIE ALLUVIUM BACKPLAI
Confide		not specified <b>e:</b> Extensive clearing, for example	Great	pal Profile Fo Soil Group:	orm:	Gn3.35 N/A
Vegeta			1 0, 0	0		
<u>Surfac</u>	e Coarse	Tall Strata - Tree, 12.01-20m, Fragments:	Sparse. "Species inci	udes - Eucaly	yptus p	oopuinea
<u>Profile</u> A1	e Morphol 0 - 0.24 m	N Very dark brown (10YR2/2 Rough-ped fabric; Many (2 100mm2) Fine (1-2mm) m	>5 per 100mm2) Very hacropores, Few (<1 pe bH 6.5 (Raupach); Abu	fine (0.075-1) er 0.01m2) M	mm) m ledium	cture, 5-10 mm, Polyhedral; acropores, Many (>5 per (2-5mm) macropores, Moist; 1mm) roots; Abundant, fine
A2	0.24 - 0.3	8 m Brown (7.5YR4/3-Moist); F 20-50 mm, Subangular b 1mm) macropores, Many Medium (2-5mm) macropo fine (0-1mm) roots; Many,	locky; Rough-ped fabr (>5 per 100mm2) Fine pres, Moist; Weak cons	ic; Many (>5 (1-2mm) ma sistence; Fiel	per 10 icropor d pH 7	es, Few (<1 per 0.01m2) .5 (Raupach); Many, very
B21	0.38 - 1.2	Smooth-ped fabric; Fine, ( macropores, Moderately n	(0 - 5) mm crack; Com noist; Firm consistence pach); Common, very	mon (1-5 per e; Many cutar	100mi ns, >50	10-20 mm, Angular blocky; m2) Very fine (0.075-1mm) % of ped faces or walls Common, fine (1-2mm) roots;
B22	1.2 - 1.4 r	structure, 10-20 mm, Angi	ular blocky; Rough-peo , Many (>5 per 100mm on cutans, 10-50% of p	d fabric; Many 2) Fine (1-2m	y (>5 p nm) ma	acropores, Moderately moist;

Morphological NotesA1Many infilled channels in B2.High om in A1

**Observation Notes** 

Buckshot Soil Profile Class

Site Notes

Project Name:	Soils of the Low	er Macquai	rie Valley, New	South Wales	
	Macquarie CSIRO Division o			Observation ID:	1

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E: Na	xchangeable Acidity	CEC		ECEC	ESP
m		dS/m	Ca	wig	ĸ	Cmol (+)/					%
0.1 - 0.15	6.6A	0.091A	-	3.3	1.4	0.3				13.7D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	7.4A 7.6A 7.5A	0.051A 0.053A 0.067A	9.6E	5.5	0.5	0.2				15.8D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Par GV	rticle CS		alysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	•
0.1 - 0.15 0.3 - 0.35							1.14 1.61		6A	32.4	27.5 34.1
0.7 - 0.75 1.3 - 1.35							1.59 1.48		5.1A	36	23.1 35.8
Depth	COLE		Grav	/imetric/Vc	olumetric V	Vater Conte	ents		K sa	at K	unsat
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar			

m	3	g/g - m3/m3		mm/h mm/h
0.1 - 0.15	0.058A	0.28G	0.15D	
0.3 - 0.35	0.023A	0.16G	0.09D	
0.7 - 0.75	0.056A	0.2G	0.14D	
1.3 - 1.35	0.07A	0.2G	0.12D	

# Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 346Observation 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)