Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
Project Code:	Macquarie	Site ID:	324	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (A	NCT)		

-	-	-	-			
Desc. E Date De Map Re	esc.: ef.: ng/Long.: g/Lat.:	N.J. McKenzie 02/08/85 Sheet No. : 8434 1:10000 6467833 AMG zone: 55 589467 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfectl	ly draine	d
	ireType:	Soil pit No Data	Conf. Sub. is Pare Substrate Material		No Dat No Dat	
Land F Rel/Slo Morph. Elem. T Slope:	pe Class: Type:	No Data Flat No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
<u>Surfac</u>	e Soil Cor	ndition (dry): Cracking, Self-m	ulching			
Erosio	<u>n:</u>					
Soil C	lassificatio	on				
Austral N/A	ian Soil Cla	assification:	Маррі	ng Unit:		OLD ALLUVIUM BACKPLAIN
			Princi	pal Profile	Form:	Ug5.29
	onfidence:	ot specified	Great	Soil Group):	N/A
		e: Complete clearing. Pasture, nat	tive or improved, but	never cultiv	vated	
Vegeta	ation:		•			
		Tall Strata - Tussock grass, <0.	.25m, Sparse. *Spec	ies includes	s - None	Recorded
		Fragments:				
	<u>• Morpholo</u> 0 - 0.13 m		Madium kanus da	Madanata		- 4
A1	0 - 0. 13 m	 Weak red (2.5YR4/1-Moist) Subangular blocky; Rough- macropores, Common (1-5 Field pH 7.5 (Raupach); Co 	ped fabric; Common per 100mm2) Fine (1	(1-5 per 10 1-2mm) mag	0mm2) \ cropores	Very fine (0.075-1mm) , Moist; Weak consistence;
B21	0.13 - 0.36	6 m Weak red (2.5YR4/1-Moist) Polyhedral; Smooth-ped fab (0.075-1mm) macropores, (consistence; Common cuta Common, very fine (0-1mm	oric; Fine, (0 - 5) mm Common (1-5 per 100 ns, 10-50% of ped fa	crack; Com 0mm2) Fine ces or walls	nmon (1- e (1-2mm s coated	5 per 100mm2) Very fine n) macropores, Moist; Firm
B22	0.36 - 0.9	m Weak red (2.5YR4/1-Moist) Polyhedral; Smooth-ped fab (0.075-1mm) macropores, (consistence; Common cuta Calcareous, Fine (0 - 2 mm Nodules; Field pH 8.5 (Rau	oric; Fine, (0 - 5) mm Common (1-5 per 100 ns, 10-50% of ped fa), Nodules; Very few	crack; Com 0mm2) Fine ces or walls (0 - 2 %), C	nmon (1- e (1-2mm s coated Calcareo	5 per 100mm2) Very fine n) macropores, Moist; Firm ; Very few (0 - 2 %), us, Medium (2 -6 mm),
B3	0.9 - 1.4 n	of structure, 20-50 mm, Pol 100mm2) Very fine (0.075- macropores, Moderately mo walls coated; Few (2 - 10 %	yhedral; Smooth-ped -1mm) macropores, (bist; Firm consistence), Calcareous, Fine (l fabric; Fine Common (1 e; Common (0 - 2 mm), l	e, (0 - 5) -5 per 10 cutans, Nodules	10-50% of ped faces or

Morphological Notes

Big slater @ 35cm with small worm

Observation Notes

A1

Mullah Soil Profile Class, Grey Phase, Possibly minor gilgai <u>Site Notes</u>

Project Name:	Soils of the Lov	wer Macqua	arie 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	Ex Ca	changeable Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	8.3A 8.7A	0.142A 0.169A	21.3E	5.6	1.2	0.8		28.9D	
0.7 - 0.75 1.3 - 1.35	9.1A 9.1A	0.334A 0.763A	16.9E	11.9	0.8	5.7		35.3D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis	6
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.37 1.37		10.8A	19.8	12.5	56.8
0.7 - 0.75 1.3 - 1.35							1.41 1.44		11.5A	19.8	13.1	55.5

Depth	COLE	Grav	Gravimetric/Volumetric Water Contents					
m		Sat. 0.05 Bar	0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3	5 Bar 15 Bar	mm/h	mm/h		
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.108A 0.108A 0.106A 0.087A		0.29G 0.29G 0.28G 0.26G	0.21D 0.21D 0.22D 0.22D				

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 324Observation 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)