Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID:	401	Observation ID: 1
Agency Mame.	CONC DIVISIO			

Site Informatio	<u>n</u>				
Desc. By:	N.J. McKenzie	Locality:			
Date Desc.:	11/10/85	1/10/85 Elevation: No Data			
Map Ref.:	Sheet No. : 8533 1:10000	Rainfall:	No Data		
Northing/Long.:	6446200 AMG zone: 55	Runoff:	Slow		
Easting/Lat.:	603500 Datum: AGD66	Drainage:	Poorly dra	ained	
<u>Geology</u>					
ExposureType: Geol. Ref.:	Soil pit No Data	Conf. Sub. is Pare Substrate Material		No Data No Data	
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	No Data Flat No Data % ondition (dry): Cracking, Self-m	Pattern Type: Relief: Slope Category: Aspect: ulching	No Data No Data No Data No Data		
Erosion: Soil Classificat	ion	-			
Australian Soil C N/A		Mappi	ng Unit:		OLD ALLUVIUM BACKPLAIN
		Princip	pal Profile	Form:	Ug5.38
ASC Confidence	:	Great	Soil Group	:	N/A
Confidence level	not specified				
Site Disturband	ce: Complete clearing. Pasture, nat	tive or improved, culti	ivated at so	me stag	e
Vegetation:				-	
regetation	Tall Strata - Tussock grass, 0.5	i1-1m. Mid-dense. *S	pecies inclu	udes - No	one Recorded
Surface Coarse	C				
Profile Morpho					
A1 0-0.1 m		ped fabric; Medium, (es, Many (>5 per 100 nacropores, Wet; We fragments; 0-2%, fin 8 (Raupach); Many,	(5 - 10) mm 0mm2) Fine eak consiste e gravelly, 2	crack; M (1-2mm ence; 0-2 2-6mm,	Many (>5 per 100mm2) Very n) macropores, Few (<1 per 2%, fine gravelly, 2-6mm, subrounded, dispersed,
B21 0.1 - 0.8	5 m Yellowish red (5YR3/5-Mois Polyhedral; Strong grade of 10) mm crack; Common (1- per 100mm2) Fine (1-2mm) Moist; Firm consistence; 0-2 2%, fine gravelly, 2-6mm, si ped faces or walls coated; C Common (10 - 20 %), Calca (Raupach); Common, very f	structure, 50-100 mr 5 per 100mm2) Very macropores, Few (< 2%, fine gravelly, 2-6 ubrounded, dispersed Common (10 - 20 %), areous, Coarse (6 - 2	m, Lenticula fine (0.075 :1 per 0.01n mm, rounde d, coarse fra Calcareous 0 mm), Soft	ar; Smoo -1mm) n n2) Med ed, dispe agments s, Coars t segrega	oth-ped fabric; Medium, (5 - nacropores, Common (1-5 ium (2-5mm) macropores, ersed, coarse fragments; 0- s; Many cutans, >50% of the (6 - 20 mm), Nodules; ations; Field pH 8.5
B22 0.85 - 1.3	35 m Yellowish red (5YR4/7-Mois Polyhedral; Smooth-ped fab Firm consistence; 0-2%, fin fine gravelly, 2-6mm, subro faces or walls coated; Few %), Calcareous, Medium (2 (0-1mm) roots;	oric; Few (<1 per 100 e gravelly, 2-6mm, ro unded, dispersed, co (2 - 10 %), Calcareou	mm2) Very ounded, disp arse fragme us, Medium	fine (0.0 persed, o ents; Ma (2 -6 mr	075-1mm) macropores, Dry; coarse fragments; 0-2%, ny cutans, >50% of ped n), Nodules; Few (2 - 10
Morphological					
A1	A1 has cracked B21 peds du	ue to cracks being inf	illed - very	shallow	CaCO3. Swells
Observation No	atos				

Observation Notes Buddah Soil Profile Class, Channel on opposite of road has "alluvial pebbles"

Site Notes

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

Laboratory Test Results:

Depth	рН	1:5 EC	Ex(Ca	changeable Mg	Cations K		nangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	ing	ĸ	Cmol (+)/kg				%
0.1 - 0.15 0.3 - 0.35	8.4A 8.7A	0.162A 0.187A	15.5E	6.9	1	0.3			23.7D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	9.1A 9A	0.404A 0.903A	7.9E	13.3	0.5	2.7			24.4D	
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size Analys	sis

Depth	Cacos	Organic	Avall.	Total	lotal	Total	Bulk	Pa	articie	Size A	naiysi	5	
		С	Р	Р	Ν	κ	Density	GV	CS	FS	Silt	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0.1 - 0.15							1.55		9.5A	28.4	12.6	6 49.5	
0.3 - 0.35							1.48						
0.7 - 0.75							1.48		9.2A	26.7	13	51.2	
1.3 - 1.35							1.39						

Depth	COLE	Gravimetric/Volumetric Water Contents	vimetric/Volumetric Water Contents K			
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar g/g - m3/m3	15 Bar	mm/h	mm/h	
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.066A 0.083A 0.102A 0.115A	0.23G 0.25G 0.27G 0.3G	0.17D 0.17D 0.18D 0.19D			

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 401Observation 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)