Project Name:	Soils of the Lo	wer Macqua	arie Vall	ey, New South Wales
Project Code:	Macquarie	Site ID:	157	Observation ID: 1
Agency Name:	CSIRO Divisio	n of Soils (A	ACT)	

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Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: <u>Geology</u>	N.J. McKenzie 11/05/85 Sheet No. : 8534 1:10000 6470400 AMG zone: 55 597600 Datum: AGD66 Soil pit No Data	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Material		ed No Data No Data			
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	No Data No Data No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data				
Erosion:	ndition (dry): Firm						
Soil Classification Australian Soil Cla N/A		Маррі	ng Unit:		MACQUARIE ALLUVIUM		
ASC Confidence: Confidence level n Site Disturbance		LEVEE DE Principal Profile Form: Uf6.11 Great Soil Group: N/A					
Vegetation: Surface Coarse	Fragments:						
Profile Morphold		y fabric; Rough-ped f -5 per 100mm2) Fine es, Strong consisten	abric; Many (1-2mm) m ce; Field pH	(>5 per acropor 7 (Rau	100mm2) Very fine (0.075- es, Few (<1 per 0.01m2)		
2A 0.55 - 0.85	5 m Dark yellowish brown (10YF Subangular blocky; Earthy f Many (>5 per 100mm2) Fin macropores, Strong consist fine (1-2mm) roots; Abrupt,	fabric; Many (>5 per e (1-2mm) macropor tence; Field pH 7 (Ra	100mm2) V es, Many (>	ery fine 5 per 0.	(0.075-1mm) macropores, 01m2) Medium (2-5mm)		
3B21 0.85 - 1.15	Rough-ped fabric; Many (> 100mm2) Fine (1-2mm) ma	5 per 100mm2) Very icropores, Many (>5 p H 7 (Raupach); Com	fine (0.075- per 0.01m2)	1mm) m Mediun			
3B22 1.15 - 1.4	5 m Dark brown (10YR3/3-Mois Rough-ped fabric; Many (> 100mm2) Fine (1-2mm) ma Strong consistence; Field p	5 per 100mm2) Very cropores, Many (>5 p	fine (0.075- per 0.01m2)	1mm) m Mediun	n (2-5mm) macropores,		
Morphological N A 3B22 Observation Not	Horizon nomemclature of 3E in the first instance. Only m Complicated multilayered all surfaces, lower horizons at	ninor differnece betwe luvial soil - lighter lay	een the 2 ho	orizons - cm thich	pH only. @24, 33, 55. Former		

Observation Notes Macquarie Soil Profile Class Site Notes

Project Name:	Soils of the Lower Macquarie Valley, New South Wales						
Project Code: Agency Name:	Macquarie CSIRO Division		157	Observation ID:	1		
Agency Name.	COINC DIVISION	UI JUIIS (A	61)				

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	Wg	n	Cmol (+				%
0.1 - 0.15	6.7A	0.058A	5.4E	3.1	0.7	0			9.2D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	7.5A 6.9A 7.3A	0.041A 0.041A 0.033A	5.2E	2	0.2	0			7.4D	
1.0 1.00	1.0/(0.000/1								
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Particle	Size Analy	vsis

Depth	Cacos	Organic	Avall.	Total	lotal	Total	Bulk	Pa	articie	Size A	naiysi	S	
		С	Р	Р	Ν	κ	Density	GV	CS	FS	Silt	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0.1 - 0.15							1.26		0.2A	31.8	38.	7 29.3	3
0.3 - 0.35							1.41		-				
0.7 - 0.75							1.51		7.9A	62.4	14.6	5 15.2	2
1.3 - 1.35							1.22						

Depth	COLE	Gra	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	0.047A 0.039A 0.034A 0.052A		0.27G 0.25G 0.14G 0.23G		0.13D 0.12D 0.07D 0.11D			

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:157Observation 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 3A1 4A1 P10_CF_C P10_CF_CS P10_CF_FS 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