Project Name:	Soils of the Low	er Macqua	arie Valley, New	South Wales	
	Macquarie CSIRO Division	Site ID: of Soils (A	341 CT)	Observation ID:	1

Site Information

Desc. By:		lcKenzie		Locality:				
Date Desc.:	04/09/			Elevation:		No Data		
Map Ref.:			0000	Rainfall:		No Data		
Northing/Long.:	64719	00 AMG zone: 5	5	Runoff:		No Data		
Easting/Lat.:	59160	0 Datum: AGD	66	Drainage:		No Data		
Geology								
ExposureType:	Soil p	it		Conf. Sub.	is Pare	nt. Mat.:	No Data	a
Geol. Ref.:	No Da	ata		Substrate M	laterial	:	No Data	a
Land Form								
Rel/Slope Class:	No Da	ata		Pattern Typ	be:	No Data		
Morph. Type:	No Da			Relief:		No Data		
Elem. Type:	No Da	ata		Slope Cate	gory:	No Data		
Slope:	%			Aspect:		No Data		
Surface Soil Co	onditio	on (dry):						
Erosion:								
Soil Classificat	lion							
Australian Soil C	lassific	ation:			Mappii	ng Unit:		MACQUARIE
N/A								ALLUVIUM
								LEVEE DE
						oal Profile		Ug5.15
ASC Confidence					Great \$	Soil Group):	N/A
Confidence level	not spe	cified						
Site Disturbance	ce:							
Vegetation:								
Surface Coarse	e Fragi	ments:						
Profile Morpho	loav							
A1p 0-0.1 m		Verv dark grevis	sh brown (10	0YR3/2-Moist): : Liaht	t clav: Mod	erate ara	ade of structure, 10-20 mm,
								mon (1-5 per 100mm2) Very
								2mm) macropores, Common
								ence; Field pH 7 (Raupach);
		Common, very f	ine (0-1mm) roots; Clear,	Smoot	h change t	0 -	
B1 0.1 - 0.3	8 m	Very dark grevis	h brown (1)	NVR3/2-Moist)· · Hoav	w clay. Str	ona arac	le of structure, 10-20 mm,
DI 0.1-0.5	0 111							n (1-5 per 100mm2) Very fine
								m) macropores, Few (<1 per
								; Many cutans, >50% of ped
								nm) roots; Clear, Wavy
		change to -		•	. ,.			
DO 0.00 ((4.0)/[<i>.</i>	
B2 0.38 - 1.	1 m							g grade of structure, 20-50
								nmon (1-5 per 100mm2) any cutans, >50% of ped
								n), Nodules; Field pH 8
		(Raupach); Few						
				,			Ũ	
B3 1.1 - 1.4	m							n, Faint; Medium heavy clay;
								oric; Common (1-5 per
		100mm2) Very f	ine (0.075-'	1mm) macrop	ores, M	oist; Firm c	consisten	ce; Field pH 8.5 (Raupach);
Morphological	Notes							
A1p			odules onlv.	Are these re	elict (ie i	pre-floodin	g)? The	e re qtz grains have
		reappeared. Ma						
Observation No	otes							
Ellengerah Soil Pr		ass						
	5							

Ellengerah Soil Profile Class Site Notes

Project Name:	Soils of the Lov	wer Macqua	rie Valley, New	South Wales	
Project Code:	Macquarie	Site ID:	341	Observation ID:	1
Agency Name:	CSIRO Divisior	n of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	e Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	Ga	wig	n	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.5A 7.9A	0.088A 0.054A	9.4E	3.5	0.9	0.1		13.9D	
0.7 - 0.75 1.3 - 1.35	8.6A 9.1A	0.161A 0.226A	14.2E	9.5	0.4	0.7		24.8D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysi	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15							1.43		11.5A	22.3	26.7	39.5
0.3 - 0.35 0.7 - 0.75							1.50 1.55		9.5A	16.1	27.5	46.8
1.3 - 1.35							1.52					

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	0.034A 0.076A 0.089A 0.084A		0.23G 0.24G 0.22G 0.23G	0.12D 0.15D 0.15D 0.16D				

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID: 341Observation 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)