## Project Name: Project Code: Agency Name: Soils of the Lower Macquarie Valley, New South Wales Macquarie Site ID: 416 Observation CSIRO Division of Soils (ACT) Observation ID: 1

### Site Information

Date Desc.: By: Date Desc.: Map Ref.: Northing/Lot Easting/Lat <u>Geology</u> ExposureTy Geol. Ref.:	N.J. 14/1 She ng.: 645 : 604 rpe: Soil	. McKenzie 10/85 set No. : 8533 1:10000 0756 AMG zone: 55 111 Datum: AGD66 I pit Data	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Parer Substrate Material:		ned Io Data Io Data	
Land Forn Rel/Slope C Morph. Typ Elem. Type: Slope: Surface So	lass: No e: Ope No %	Data en depression (vale) Data <b>tion (dry):</b> Cracking	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data		
Erosion:	fication					
Soil Class Australian S		fication:	Mappir	ng Unit:		OLD ALLUVIUM
N/A			Princip	al Profile Fo	orm:	MEANDER PLAIN Ug5.38
ASC Confid Confidence		pecified	•	Soil Group:		N/Ă
		Cultivation. Rainfed				
<b>Vegetation</b>		Tall Strata - Tussock grass, 0.51	-1m Mid-dense *Sr	nacias includ	os - No	one Recorded
Surface Co		-			00 140	
Profile Mo	<u>rphology</u>	!				
A1 0-	0.2 m	Brown (7.5YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm consistence; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Gradual, Smooth change to -				
B21 0.2	- 0.8 m	Reddish brown (5YR4/4-Moi Angular blocky; Smooth-ped (0.075-1mm) macropores, M walls coated; Common (10 - (Raupach); Common, very fi	fabric; Fine, (0 - 5) r oist; Very firm consis 20 %), Calcareous,	nm crack; Fe stence; Many Medium (2 -6	ew (<1 / cutan 6 mm),	per 100mm2) Very fine s, >50% of ped faces or Nodules; Field pH 8.5
B22 0.8	- 1.4 m	Light brown (7.5YR6/4-Moist mm, Angular blocky; Smooth (0.075-1mm) macropores, M walls coated; Common (10 - %), Manganiferous, Coarse fine (0-1mm) roots;	h-ped fabric; Fine, (0 Moist; Very firm cons 20 %), Calcareous,	- 5) mm crac istence; Man Coarse (6 - 2	ck; Few y cuta 20 mm)	v (<1 per 100mm2) Very fine ns, >50% of ped faces or ), Nodules; Common (10 - 20
Morpholog A1	lical Note	<u>PS</u> A very difficult profile to descu full/swollen. There may be a			acropo	res are

Observation Notes Buddah Soil Profile Class Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code:	Macquarie	Site ID:	416	Observation ID: 1	1
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

# 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	Wg	ĸ	Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	8.7A 9.2A	0.167A 0.24A	15.5E	6.7	0.7	0.8		23.7D	
0.7 - 0.75 1.3 - 1.35	9.5A 9A	0.527A 1.239A		10.8	0.4	7.4		24.1D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size A	nalysi	S
		С	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.1 - 0.15							1.49		16.1A	27.8	9.9	46.2
0.3 - 0.35							1.43		10.17	21.0	0.0	10.2
0.7 - 0.75							1.47		15.9A	29	11.7	43.5
1.3 - 1.35							1.39					

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Ba g/g - m3/m3	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.084A 0.095A 0.115A 0.105A	0.24G 0.18E 0.27G 0.19E 0.26G 0.19E 0.3G 0.2D	1	

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### 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)