Project Name: Soils of the Lower Macquarie Valley, New South Wales
Project Code: Macquarie Site ID: 156 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: N.J. McKenzie Locality:

Date Desc.:11/05/85Elevation:No DataMap Ref.:Sheet No.: 85341:10000Rainfall:No DataNorthing/Long.:6470100 AMG zone: 55Runoff:Very slow

Easting/Lat.: 597200 Datum: AGD66 Drainage: Moderately well drained

<u>Geology</u>

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: No Data

Land Form

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:FlatRelief:No DataElem. Type:No DataSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification: MACQUARIE MACQUARIE

A ALLUVIUM LEVEE DE

Principal Profile Form: Uf6.11

ASC Confidence: Great Soil Group: N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11 0 - 0.2 m Dark brown (10YR3/3-Moist); ; Silty clay; Moderate grade of structure, 20-50 mm, Subangular

blocky; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 0.01m2) Medium (2-5mm) macropores, Very firm consistence; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Gradual, Smooth

change to -

A12 0.2 - 0.52 m Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm,

Subangular blocky; Rough-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm)

macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 0.01m2) Medium (2-5mm) macropores, Very firm consistence; Field pH 7 (Raupach); Many, very fine (0-1mm)

roots; Sharp, Smooth change to -

B2 0.52 - 1.5 m Very dark brown (10YR2/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm,

Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Many (>5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 0.01m2) Medium (2-5mm) macropores, Strong consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots;

Morphological Notes

B2 Remarkable number of former channels, casts, macropores

Observation Notes

Macquarie Soil Profile Class, Ploughed

Site Notes

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Laboratory Test Results:

Euboratory rest results.											
Depth	рН	1:5 EC		nangeable Mg	Cations K	Na E	Exchangeable Acidity	CEC	E	CEC	ESP
m		dS/m		9		Cmol (+)					%
0.1 - 0.15 0.3 - 0.35	6.7A 7.3A	0.079A 0.053A	8.6E	3.5	8.0	0.1				13D	
0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	7.3A 7.3A 7.5A	0.069A 0.031A	17.2E	7.4	0.3	0.2			2	5.1D	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle S	Size Analys FS Silt	is Clay
m	%	%	mg/kg	%	%	%	Mg/m3	٠.		%	Olay
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35							1.28 1.27 1.23 1.54		1.2A 2.9A	29.3 39. 11.2 47.	
Depth	COLE	Gravimetric/Volumetric Wa Sat. 0.05 Bar 0.1 Bar 0.5 Bar				ater Con		I5 Bar	K sat	t Kuns	at
m				g/g	g - m3/m3				mm/h	n mm/l	n
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.052/ 0.059/ 0.037/ 0.058/	A		0.29G 0.28G 0.26G 0.21G			(0.13D 0.14D 0.17D 0.16D			

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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

EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

Clay (%) - Coventry and Fett pipette method

P10_CF_C P10_CF_CS P10_CF_FS Coarse sand (%) - Coventry and Fett pipette method 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)