

Project Name: Soils of the Lower Macquarie Valley, New South Wales
Project Code: Macquarie **Site ID:** 205 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	13/06/85	Elevation:	No Data
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6459433 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	596533 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor or present (wind);

Soil Classification

Australian Soil Classification:		Mapping Unit:	GIN GIN AEOLIAN DEPOSITS
N/A		Principal Profile Form:	Um5.51
		Great Soil Group:	N/A

ASC Confidence:

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Tussock grass, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, stratified, coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Clear, Irregular change to -
A2	0.1 - 0.28 m	Yellowish red (5YR2/6-Moist); Strong brown (7.5YR4/6-Dry); ; Sandy clay loam; Moderate grade of structure; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Weak consistence; 50-90%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 50-90%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.28 - 0.5 m	Red (2.5YR5/5-Moist); , 7.5YR4/6, 20-50% , 0-5mm, Faint; Medium clay; Moderate grade of structure; Rough-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.5 - 0.95 m	Brownish yellow (10YR6/7-Moist); , 5YR5/6, 20-50% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth
B23	0.95 - 1.28 m	Reddish yellow (7.5YR6/6-Moist); , 5YR5/6, 20-50% , 0-5mm, Distinct; Medium clay; Moderate grade of structure; Rough-ped fabric; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach); Sharp, Smooth change to -
C	1.28 - 1.35 m ;	

Morphological Notes

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A1 Some large "red" mottles around gravel: ~100mm diam in B22

Observation Notes

Hillside Soil Profile Class, Fallow - wheat. Substrate - weathered white fine sandstone

Site Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile

15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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/cm ³
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)
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Kt	Kaolinite - X-Ray Diffraction