Project Code: N	Soils of the Lower Macquar Acquarie Site ID: CSIRO Division of Soils (AC	222 O	outh Wales Observation ID:	1
Date Desc.:17//Map Ref.:SheNorthing/Long.:646Easting/Lat.:605	I. McKenzie 06/85 eet No. : 8534 1:10000 55200 AMG zone: 55 5400 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfectly drain	ed
	il pit Data	Conf. Sub. is Pare Substrate Materia		
Morph. Type:LovElem. Type:NoSlope:%		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Surface Soil Condi Erosion: Soil Classification	i <u>tion (dry):</u> Firm, Recently cu	ultivated		
Australian Soil Class N/A	ification:	Маррі	ing Unit:	GIN GIN AEOLIAN DEPOSITS
Vegetation:	specified Extensive clearing, for example Tall Strata - Tree, 6.01-12m, Sp	Great poisoning, ringbarki	5	Gn3.13 N/A
Surface Coarse Fra	agments:	barse. Species inclu	ides - Eucalypius p	opumea
Profile Morphology A11 0 - 0.17 m	Dark reddish brown (5YR3/3 Subangular blocky; Rough- macropores, Common (1-5 Medium (2-5mm) macropore 20mm, subrounded, dispers	ped fabric; Common per 100mm2) Fine (es, Moderately mois ed, coarse fragmen	(1-5 per 100mm2) 1-2mm) macropore t; Firm consistence ts; Field pH 7 (Rau	Very fine (0.075-1mm) s, Common (1-5 per 0.01m2) ; 2-10%, medium gravelly, 6-
A12 0.17 - 0.35 m	Polyhedral; Rough-ped fabr Common (1-5 per 100mm2) macropores, Moderately mo subrounded, dispersed, coa	ic; Common (1-5 pe Fine (1-2mm) macr bist; Firm consistence irse fragments; Field	r 100mm2) Very fin opores, Few (<1 pe e; 2-10%, medium I pH 6.5 (Raupach)	e (0.075-1mm) macropores, er 0.01m2) Medium (2-5mm)
B21 0.35 - 0.6 m	Yellowish red (5YR4/6-Mois Smooth-ped fabric; Fine, (0 macropores, Few (<1 per 10 consistence; Common cutar Common, very fine (0-1mm) roots; Gradual, Irregular cha	- 5) mm crack; Few 00mm2) Fine (1-2mr ns, 10-50% of ped fa) roots; Common, fin	(<1 per 100mm2) \ m) macropores, Mo aces or walls coated	/ery fine (0.075-1mm) derately moist; Very firm d; Field pH 7.5 (Raupach);
B22k 0.6 - 1.35 m	1mm) macropores, Few (<1 consistence; Common cutar	pric; Fine, (0 - 5) mm per 100mm2) Fine ns, 10-50% of ped fa mm), Nodules; Man	crack; Few (<1 per (1-2mm) macroport aces or walls coated y (20 - 50 %), Calca	r 100mm2) Very fine (0.075- es, Dry; Very firm d; Many (20 - 50 %), areous, Very coarse (20 - 60
Morphological Note	<u>es</u> Heavier with more tenacious	profile compared w	ith 221. More CaC	CO3 nodules.

Observation Notes Mitchell Soil Profile Class, Moderately Drained Phase

Site Notes

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:222Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

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Project Code: Agency Name:	Macquarie CSIRO Division	Site ID: of Soils (A		Observation ID:	1
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Laboratory Test Results:

Depth	рН	1:5 EC Ca		hangeable: Mg	Cations K	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m		U		Cmol (+)/kg			%
0.1 - 0.15 0.3 - 0.35	6.1A 6.9A	0.047A 0.039A	6.4E	0.9	0.8	0.1		8.2D	
0.7 - 0.75 1.3 - 1.35	8.6A 8.3A	0.625A 1.22A	7.1E	7.2	0.2	2.1		16.6D	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size A	nalysis	6
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0.1 - 0.15 0.3 - 0.35							1.65 1.61		20.6A	38.5	14.6	26.3
0.7 - 0.75 1.3 - 1.35							1.56 1.46		10.2A	19.7	6.4	63.7

Depth	COLE		Gravimetric/Volumetric Water Contents							K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.018A 0.04A 0.049A 0.057A			0.13G 0.18G 0.21G 0.23G				0.09D 0.14D 0.19D 0.2D		

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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)