Project Name:	Soils of the Lo	ower Macqua	arie Vall	ey, New South Wales	
Project Code: Agency Name:	Macquarie CSIRO Divisio	Site ID: on of Soils (#	153 ACT)	Observation ID:	1

	rmation

Date Desc.: Map Ref.: Northing/Long.:	N.J. McKenzie 09/05/85 Sheet No. : 8534 1:10000 6469575 AMG zone: 55 596450 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data Slow Imperfectly draine	ed
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia		
Morph. Type: Elem. Type: Slope:	No Data Flat No Data %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Surface Soil Cor Erosion: Soil Classificatio				
Australian Soil Cla N/A		Маррі	ng Unit:	MACQUARIE ALLUVIUM BACKPLAI
ASC Confidence:			pal Profile Form: Soil Group:	Ug5.15 N/A
<u>Vegetation:</u> Surface Coarse	Cultivation. Rainfed Fragments:			
Profile Morphold	Very dark greyish brown (1 Subangular blocky; Strong - 5) mm crack; Common (1 per 100mm2) Fine (1-2mm Firm consistence; 0-2%, fin	g grade of structure, 2 -5 per 100mm2) Very) macropores, Few (< le gravelly, 2-6mm, so	0-50 mm, Granular fine (0.075-1mm) i 1 per 0.01m2) Mec ubrounded, dispers	
B21 0.2 - 0.68	M Very dark grey (10YR3/1-M Smooth-ped fabric; Medium 1mm) macropores, Few (< macropores, Dry; Very stro dispersed, coarse fragment (Raupach); Many, very fine	n, (5 - 10) mm crack; 1 per 100mm2) Fine (ng consistence; 0-2% ts; Very few (0 - 2 %)	Common (1-5 per 1 1-2mm) macropore 5, fine gravelly, 2-6r , Calcareous, Mediu	100mm2) Very fine (0.075- es, Few (<1 per 0.01m2) nm, subrounded, um (2 -6 mm), ; Field pH 7
B22 0.68 - 1.05	5 m Very dark brown (10YR2/3 Polyhedral; Smooth-ped fal (0.075-1mm) macropores, I 0.01m2) macropores, Dry dispersed, coarse fragment Field pH 8.5 (Raupach); Fe	bric; Medium, (5 - 10) Few (<1 per 100mm2 ; Strong consistence; ts; Common (10 - 20	mm crack; Few (<) Fine (1-2mm) ma 0-2%, fine gravelly %), Calcareous, Me	1 per 100mm2) Very fine cropores, Few (<1 per , 2-6mm, subrounded, edium (2 -6 mm), Nodules;
BC 1.05 - 1.5		Fine, (0 - 5) mm crac g consistence; 0-2%, n (10 - 20 %), Calcare	k; Few (<1 per 100 fine gravelly, 2-6mr	mm2) Very fine (0.075-1mm) n, subrounded, dispersed,
Morphological N	lotes			

Observation Notes Mullah Soil Profile Class, Black Phase Site Notes

Project Name:	Soils of the Lo	wer Macqua	arie Valle	ey, New South Wales	
Project Code:	Macquarie	Site ID:	153	Observation ID: 1	
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mq	Cations K		nangeable Acidity	CEC		ECEC		ESP
m		dS/m	Ga	Wig	n	Cmol (+)/kg						%
0.1 - 0.15	7A	0.078A	10.4E	5.9	0.4	0.8				17.5D		
0.3 - 0.35 0.7 - 0.75	7.9A 8.7A	0.11A 0.272A	18.2E	14.1	0.5	4.5				37.3D		
1.3 - 1.35	8.5A	0.454A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analys	is
Doptil	04000	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay

m	%	۲ %	P mg/kg	Р %	N %	ĸ %	Mg/m3	GV	65	F5 %	SIIT	Clay
0.1 - 0.15 0.3 - 0.35							1.37 1.29		6A	14	22.1	58
0.7 - 0.75 1.3 - 1.35							1.39 1.45		4.9A	13.6	17.6	63.8

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 g/g - m3/m3	15 Bar	mm/h	mm/h
0.1 - 0.15 0.3 - 0.35 0.7 - 0.75 1.3 - 1.35	0.084A 0.152A 0.1214A 0.09A	0.3G 0.35G 0.32G 0.27G	0.21D 0.23D 0.24D 0.21D		

Project Name:Soils of the Lower Macquarie Valley, New South WalesProject Code:MacquarieSite ID:153Observation 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)