Project Name:BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape ModellingProject Code:Wagga_SLMSite ID:BD34Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Desc.	<u>nformatio</u> By:	<u>n</u> McKane, Dermot		Locality:					
Date D	Desc.:	15/07/93 Sheet No. : 8327 1:25000		Elevation: 284 metres		es			
Map R	ef.:			Rainfall:	No Data				
	• •	6126174 AMG zon		Runoff:	No Data				
	g/Lat.:	538272 Datum: A	GD66	Drainage:	No Data				
<u>Geolo</u>		Undisturbed soil co		Conf. Sub. is Pare	nt Mot .	Drobabl	•		
ExposureType: Geol. Ref.:		No Data	Die	Substrate Materia		Probable Granite			
		No Data		Substrate Materia		Oranite			
Land	ope Class:	No Data		Pattern Type:	No Data				
	. Type:	No Data		Relief:	No Data				
Elem.		No Data		Slope Category:	No Data				
Slope:		4 %		Aspect:	315 degre	ees			
•		ndition (dry):							
Erosi									
	cin. Classificati	on							
		assification:		Manni	ng Unit:		N/A		
		Brown Dermosol Me	dium Non-arav		pal Profile	Form	N/A		
	Clayey Ver		column Norr grav		parrionic	10111.	1.0/7.		
	Confidence	, ,		Great	Soil Group):	N/A		
		not specified		0.041		-			
Site D	Disturbanc	e:							
Veget	ation:								
		Fragments:							
-	e Morphol								
A1		UYV							
	0 - 0.1 m	Dark reddis		4-Moist); ; Loam; Ma					
	0 - 0.1 m	Dark reddis per 100mm	n2) Very fine (0.	075-1mm) macropor	es, Dry; We	ak consi	stence; 0-2%, fine	gravelly,	
	0 - 0.1 m	Dark reddisl per 100mm 2-6mm, sub	n2) Very fine (0. angular, disper		es, Dry; We	ak consi	stence; 0-2%, fine	gravelly,	
	0 - 0.1 m	Dark reddisl per 100mm 2-6mm, sub Clear chang	n2) Very fine (0. angular, dispers je to -	075-1mm) macropor sed, Quartz, coarse f	es, Dry; We ragments; (ak consi: Common,	stence; 0-2%, fine , very fine (0-1mm	e gravelly, n) roots;	
B1	0 - 0.1 m 0.1 - 0.59	Dark reddisl per 100mm 2-6mm, sub Clear chang 9 m Red (2.5YR	n2) Very fine (0. angular, disper ge to - 4/8-Moist); ; Lig	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad	es, Dry; We ragments; (de of structu	eak consis Common, ure; Earth	stence; 0-2%, fine , very fine (0-1mm ny fabric; Common	gravelly,) roots; n (1-5 per	
B1		Dark reddisl per 100mm 2-6mm, sub Clear chang 9 m Red (2.5YR 100mm2) V	n2) Very fine (0. langular, dispers je to - 4/8-Moist); ; Lig ery fine (0.075-	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F	es, Dry; We ragments; (de of structu ew (<1 per	ak consis Common, ure; Earth 100mm2	stence; 0-2%, fine , very fine (0-1mm ny fabric; Common) Medium (2-5mm	e gravelly, n) roots; n (1-5 per	
B1		Dark reddisl per 100mm 2-6mm, sub Clear chang 9 m Red (2.5YR 100mm2) V macropores	n2) Very fine (0. angular, dispers je to - 4/8-Moist); ; Lig ery fine (0.075- 5, Dry; Firm cons	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6	eak consis Common, ure; Earth 100mm2 Smm, sub	stence; 0-2%, fine , very fine (0-1mm ny fabric; Common) Medium (2-5mm angular, disperse	e gravelly, n) roots; n (1-5 per	
B1		Dark reddisl per 100mm 2-6mm, sub Clear chang 9 m Red (2.5YR 100mm2) V macropores	n2) Very fine (0. angular, dispers je to - 4/8-Moist); ; Lig ery fine (0.075- 5, Dry; Firm cons	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6	eak consis Common, ure; Earth 100mm2 Smm, sub	stence; 0-2%, fine , very fine (0-1mm ny fabric; Common) Medium (2-5mm angular, disperse	e gravelly, n) roots; n (1-5 per	
B1 B21		Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag	n2) Very fine (0. angular, dispers ge to - 4/8-Moist); ; Lig ery fine (0.075- 5, Dry; Firm cons gments; Few, ve	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual o	eak consis Common, ure; Earth 100mm2 imm, sub change to	stence; 0-2%, fine , very fine (0-1mm hy fabric; Common) Medium (2-5mm angular, disperse) -	e gravelly,) roots; n (1-5 per) d, Quartz,	
	0.1 - 0.59	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su	n2) Very fine (0. angular, dispers ge to - 4/8-Moist); ; Lig ery fine (0.075- 5, Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky	075-1mm) macropor sed, Quartz, coarse f Int clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair r; Smooth-ped fabric;	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c ut; Light mer Dry; Very f	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi	stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii	e gravelly,)) roots; n (1-5 per)) d, Quartz, structure, ne	
	0.1 - 0.59	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su	n2) Very fine (0. angular, dispers ge to - 4/8-Moist); ; Lig ery fine (0.075- 5, Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grac 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c ut; Light mer Dry; Very f	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi	stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii	e gravelly,)) roots; n (1-5 per)) d, Quartz, structure, ne	
	0.1 - 0.59	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su gravelly, 2-6	n2) Very fine (0. angular, dispers ge to - 4/8-Moist); ; Lig ery fine (0.075- , Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky Smm, subrounde	075-1mm) macropor sed, Quartz, coarse f Int clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair r; Smooth-ped fabric;	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c br; Light meu Dry; Very f e fragments	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi ; Commo	stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii n cutans, 10-50%	e gravelly,)) roots; n (1-5 per)) d, Quartz, structure, ne	
B21	0.1 - 0.59 0.59 - 1.5	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su gravelly, 2-6 faces or wal	2) Very fine (0. angular, dispers to - 4/8-Moist); ; Lig ery fine (0.075- , Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky Smm, subrounde Ils coated; Few	075-1mm) macropor sed, Quartz, coarse f 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair r; Smooth-ped fabric; ed, dispersed, coarse (2 - 10 %), Manganif	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c dt; Light me Dry; Very f e fragments erous, , ; Cl	eak consis Common, 100mm2 imm, sub change to dium clay irm consi ; Commo ear chan	stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii n cutans, 10-50% ge to -	e gravelly,) roots; (1-5 per) d, Quartz, structure, ne o of ped	
	0.1 - 0.59	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su gravelly, 2-6 faces or wal	n2) Very fine (0. angular, dispers to - 4/8-Moist); ; Lig ery fine (0.075- ; Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky 5mm, subrounde Ils coated; Few <i>n</i> (7.5YR5/8-Me	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair r; Smooth-ped fabric; ed, dispersed, coarse (2 - 10 %), Manganif pist); Mottles, 2-10%	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c dt; Light mee Dry; Very f e fragments erous, , ; Cl , Faint; Mot	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi ; Commo ear chan ttles, 2-1(stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii n cutans, 10-50% ge to - 0%, Faint; Light c	e gravelly,)) roots; n (1-5 per)) d, Quartz, structure, ne o of ped lay;	
B21	0.1 - 0.59 0.59 - 1.5	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su gravelly, 2-6 faces or wal 6 m Strong brow Massive gra	n2) Very fine (0. angular, dispers to - 4/8-Moist); ; Lig ery fine (0.075- , Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky Smm, subrounde Ils coated; Few vn (7.5YR5/8-Me ade of structure;	075-1mm) macropor sed, Quartz, coarse f 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair r; Smooth-ped fabric; ed, dispersed, coarse (2 - 10 %), Manganif	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c ht; Light me Dry; Very f e fragments erous, , ; Cl , Faint; Mol ery firm cor	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi ; Commo ear chan ttles, 2-1(stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii n cutans, 10-50% ge to - 0%, Faint; Light c	e gravelly,)) roots; (1-5 per)) d, Quartz, structure, ne o of ped lay;	
B21 BC	0.1 - 0.59 0.59 - 1.5	Dark reddisl per 100mm 2-6mm, sub Clear chang 0 m Red (2.5YR 100mm2) V macropores coarse frag 5 m Mottles, 10- 2-5 mm, Su gravelly, 2-6 faces or wal 5 m Strong brow Massive gra 6mm, subro	n2) Very fine (0. angular, dispers to - 4/8-Moist); ; Lig ery fine (0.075- , Dry; Firm cons gments; Few, ve 20% , Distinct; I bangular blocky Smm, subrounde Ils coated; Few vn (7.5YR5/8-Me ade of structure;	075-1mm) macropor sed, Quartz, coarse f ht clay; Massive grad 1mm) macropores, F sistence; 0-2%, fine g ery fine (0-1mm) roots Mottles, 2-10%, Fair c; Smooth-ped fabric; ed, dispersed, coarse (2 - 10 %), Manganif bist); Mottles, 2-10% Earthy fabric; Dry; V	es, Dry; We ragments; (de of structu ew (<1 per gravelly, 2-6 s; Gradual c ht; Light me Dry; Very f e fragments erous, , ; Cl , Faint; Mol ery firm cor	eak consis Common, ure; Earth 100mm2 imm, sub change to dium clay irm consi ; Commo ear chan ttles, 2-1(stence; 0-2%, fine , very fine (0-1mm) Medium (2-5mm angular, disperse) - r; Strong grade of istence; 2-10%, fii n cutans, 10-50% ge to - 0%, Faint; Light c	e gravelly,)) roots; n (1-5 per)) d, Quartz, structure, ne o of ped lay;	

Observation Notes

Site Notes

Project Name: Project Code: Agency Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling Wagga_SLM Site ID: BD34 Observation ID: 1 Wagga_SLM Site ID: BD34 CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth m	рН	1:5 EC dS/m		hangeable Ng	e Cations K	Na Cmol (+	Exchangeable Acidity)/kg	CEC		ECEC		ESP %
0 - 0.1 0.1 - 0.59 0.59 - 1.5 1.5 - 1.66	5.37A 6.05A 7.13A 8.29A	0.066A 0.036A 0.034A 0.067A	3.3J 4.4J 4.9J 9.8J	0.82 2.1 5 8.4	1 0.96 0.71 1.3	0 0.86 0.37 0.99		9.11 9.81 15.91 201			1	0.00 8.78 2.33 4.95
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	rticle CS	Size FS %	Analysi Silt	
0 - 0.1 0.1 - 0.59 0.59 - 1.5 1.5 - 1.66		2.02C 0.4C 0.07C 0.06C							39.11 55.61 63.91 60.21		13.1 10.1 10.9 17	34.3
Depth m	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	olumetric V 0.5 Bar /g - m3/m	1 Bar	tents 5 Bar 15	Bar	K sa mm		K unsa mm/h	
0 - 0.1 0.1 - 0.59 0 59 - 1 5												

0.59 - 1.5 1.5 - 1.66

BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling **Project Name:** Project Code: Wagga_SLM Site ID: BD34 Observation ID: 1 Agency Name: CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile

- 15F1 CA Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
- 15F1_K 15F1_MG Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
- Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
- Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ 15F1_NA 15F3
- 15L1 Base saturation percentage (BSP)
- 15N1 Exchangeable sodium percentage (ESP)
- EC of 1:5 soil/water extract 3A1
- 4A1 pH of 1:5 soil/water suspension
- 6B3 Total organic carbon - high frequency induction furnace, infrared
- Clay (%) Not recorded Sand (%) Not recorded P10_NR_C
- P10_NR_S P10_NR_Z Silt (%) - Not recorded