Project Name:SOIL STRUCTURE & MANAGEMENTProject Code:SSMSite ID:Agency Name:CSIRO Division of Soils (ACT)

Observation ID: 1

•	-			•	,				
Desc. B Date De Map Re Northin Easting	sc.: f.: g/Long.: /Lat.:	B. Murpl 31/01/91 Sheet N 6398700			Locality: Elevation: Rainfall: Runoff: Drainage:		345 metre No Data Moderate Moderate	ly rapid	rained
<u>Geoloc</u> Exposu Geol. Re	reType:	Undistu Scp	rbed soil co	re	Conf. Sub. i Substrate N			Probab No Data	
Land F Rel/Slop Morph. Elem. T Slope:	pe Class: Type:	No Data Mid-slop Hillslope 5 %	ре		Pattern Typ Relief: Slope Cates Aspect:		Rises No Data No Data 315 degre	ees	
Surface	<u>e Soil Co</u>	<u>ndition</u>	<u>(dry):</u> H	ardsetting, Firm	ı				
Erosio	n: Not a	pparent ((wind); Parti	al, Moderate (s	heet)				
	Partia	al, Modera	ate (gully)						
Soil Cla	assificati	<u>ion</u>							
Australi	an Soil Cl	lassificat	tion:				ng Unit:		N/A
•	ic Red Chr						al Profile		Dr2.12
	onfidence					Great S	Soil Group):	Non-calcic brown
	nce level r							Б.	soil
		Exter	nsive clearli	ng, for example	poisoning, rir	igbarkin	g, Cultivat	on. Rain	red,
Vegeta		Fragm	onto: 0.40				. No overfi		
			<u>ents:</u> 2-10	0%, fine gravelly	/, 2-6mm, sub	angular	, ; NO SUIT	ace coars	se tragments
-	Morphol								
O1	0 - 0.05 n	n C	Organic Lay	er; ;					
A11	0.05 - 0.0	S F s fi	Subangular mm crack; Fine (1-2mm sticky; 0-2% ine gravelly;	blocky; 50-100 Few (<1 per 100 n) macropores, I , fine gravelly, 2	mm, Prismatio 0mm2) Very fi Dry; Very wea 2-6mm, suban gular, dispers	c; Earthy ine (0.07 ik consis gular, d ied, coa	y fabric; Fii 75-1mm) m stence; No ispersed, (ne, (0 - 5 nacropor n-plastic Quartz, c	of structure, 10-20 mm, b) mm crack; Medium, (5 - 10) es, Few (<1 per 100mm2) ; Normal plasticity; Non- oarse fragments; 2-10%, v, very fine (0-1mm) roots;
A12	0.07 - 0.1	m m C	of structure nm crack; M nacropores, Non-plastic; Quartz, coar	, 10-20 mm, Su ledium, (5 - 10) , Few (<1 per 10 Normal plasticit se fragments; 2	bangular bloc mm crack; Fe 00mm2) Fine ty; Non-sticky 2-10%, fine gra	ky; 50-1 ew (<1 p (1-2mm ; 0-2%, avelly, 2	00 mm, P per 100mm) macropo fine gravel 2-6mm, sub	rismatic; 2) Very f res, Dry; ly, 2-6mr pangular,	se sandy loam; Weak grade Earthy fabric; Fine, (0 - 5) fine (0.075-1mm) Very weak consistence; n, subangular, dispersed, dispersed, coarse sharp, Irregular change to -
B21	0.15 - 0.2	S M V 2	Subangular Medium, (5 - Veak consis 2-6mm, suba	blocky; 50-100 - 10) mm crack; stence; Moderat	mm, Angular Few (<1 per tely plastic; No sed, coarse fra	blocky; 100mm2 ormal pl agments	Smooth-pe 2) Fine (1-2 asticity; Mo s; Many cut	ed fabric; 2mm) ma oderately ans, >50	ucture, 50-100 mm, Fine, (0 - 5) mm crack; acropores, Moderately moist; y sticky; 0-2%, fine gravelly, 0% of ped faces or walls nge to -
B22	0.27 - 0.5	P M N	Prismatic; 50 - 10) mm cr Aoderately s Aany cutans	D-Ì00 mm, Suba ack; Moderately sticky; 2-10%, m	angular blocky y moist; Firm nedium gravel faces or walls	/; Smoo consiste ly, 6-20 coated,	th-ped fab ence; Mode mm, angul	ric; Fine, erately pl ar, dispe	cture, 50-100 mm, (0 - 5) mm crack; Medium, (5 astic; Normal plasticity; irsed, coarse fragments; fine (0-1mm) roots; Few,

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B23 0.56 - 0.81 m Yellowish brown (10YR5/4-Moist); Substrate influence; Substrate influence; Coarse sandy medium clay; Strong grade of structure, 50-100 mm, Prismatic; 50-100 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Medium, (5 - 10) mm crack; Dry; Strong consistence; Moderately plastic; Normal plasticity; Moderately sticky; 2-10%, coarse gravelly, 20-60mm, angular, dispersed, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations; Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

SUNTOP WELLINGTON SHED

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Laboratory Test Results:

Depth	рН	1:5 EC	Exo Ca	hangeabl	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ja	Mg	n	Cmol				%
0.05 - 0.07 0.06 - 0.135	5.62B	0.118A	2.5J	1.53	0.76	0.02		5.391		0.37
0.07 - 0.1	4.98B	0.061A	2.2J	1.34	0.63	0.01		4.691		0.21
0.1 - 0.15	4.89B	0.059A	2.15J	1.24	0.4	0.02		4.65I		0.43
0.15 - 0.25	5.83B	0.043A	8.67J	6.59	0.38	0.16		15.34I		1.04
0.75 - 0.85	6.7B	0.063A	14.22J	12.95	0.53	0.61		25.851		2.36

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size FS	Analysi Silt	s Clay
m	%	%	ng/kg	%	%	%	Mg/m3		00	%	om	Olay
0.05 - 0.07 0.06 - 0.135		1.05C					1.59				10	13
0.07 - 0.1		0.59C									10	13
0.1 - 0.15		0.51C									9	13
0.15 - 0.25		0.65C									8	68
0.75 - 0.85		0.23C									11	47

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Cont	ents		K sat	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
0.05 - 0.07 0.06 - 0.135		0.38F	0.34F	0.311						

0.06 - 0.135 0.07 - 0.1 0.1 - 0.15 0.15 - 0.25 0.75 - 0.85

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Laboratory Analyses Completed for this profile

6B3Total organic carbon - high frequency induction furnace, infraredP10_CF_CClay (%) - Coventry and Fett pipette methodP10_CF_ZSilt (%) - Coventry and Fett pipette methodP3A1Bulk density - g/cm3P3B3VLc0010.01 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc0030.03 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc0050.05 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc010.1 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc030.3 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc040.1 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc050.3 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc040.3 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP3B3VLc35Saturated Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plateP6_LPDispersion Index (Loveday and Pyle, 1973)PWS1-2mm1000-2000 micron fraction (%) - Wet Sieving after chemical dispersionPWS20-6320-63 micron fraction (%) - Wet Sieving after chemical dispersionPWS425-1mm425-1000 micron fraction (%) - Wet Sieving after chemical dispersion