

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM123 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P. Gessler	Locality:	
Date Desc.:	20/02/91	Elevation:	185 metres
Map Ref.:	Sheet No. : 8227 1:25000	Rainfall:	No Data
Northing/Long.:	6116210 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	476410 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qrs	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition (dry): Cracking

Erosion: Stable, Minor (sheet) Stable, No rill erosion (rill)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Hypercalcic Red Dermosol		Principal Profile Form:	Dr2.13
ASC Confidence:		Great Soil Group:	Red-brown earth
Confidence level not specified			

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.12 m	Dark reddish brown (5YR3/4-Moist); ; Silty clay loam; Massive grade of structure; Rough-ped fabric; Coarse, (10 - 20) mm crack; Medium, (5 - 10) mm crack; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Medium (2-5mm) macropores, Dry; Very firm consistence; Slightly plastic; Slightly sticky; 0-2%, rounded, dispersed, Quartz, coarse fragments; Cultivation pan, Uncemented, Continuous, Massive; Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21t	0.12 - 0.45 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 20-50 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Medium, (5 - 10) mm crack; Coarse, (10 - 20) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Wavy change to -
B22	0.45 - 0.74 m	Yellowish red (5YR4/6-Moist); Biological mixing, 2.5YR46, 2-10% , Distinct; Medium clay; Moderate grade of structure, Angular blocky; 50-100 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B23	0.74 - 1 m	Brown (7.5YR5/4-Moist); Biological mixing, 2.5YR58, 2-10% , Prominent; Medium clay; Moderate grade of structure, Columnar; 20-50 mm; Smooth-ped fabric; Fine, (0 - 5) mm crack; Medium, (5 - 10) mm crack; Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules, strong, segregations; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

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[illegible]

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Laboratory Analyses Completed for this profile

13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13A1_MN	Oxalate-extractable manganese
13A1_SI	Oxalate-extractable silicon
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_MN	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_SI	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
14H1_CA	Soluble bases/SE (Ca,Mg,K,Na)
14H1_K	Soluble bases/SE (Ca,Mg,K,Na)
14H1_MG	Soluble bases/SE (Ca,Mg,K,Na)
14H1_NA	Soluble bases/SE (Ca,Mg,K,Na)
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
3A1	EC of 1:5 soil/water extract
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm ³
P3B3VLc001	0.01 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc003	0.03 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc005	0.05 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc01	0.1 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc03	0.3 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLcSAT	Saturated Moisture m ³ /m ³ - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLd1	1 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd15	15 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd3	3 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P3B3VLd5	5 BAR Moisture m ³ /m ³ - Volumetric using undisturbed 48mm diameter and 15mm height core on pressure plate
P6_LP	Dispersion Index (Loveday and Pyle, 1973)
PWS1-2mm	1000-2000 micron fraction (%) - Wet Sieving after chemical dispersion
PWS20-63	20-63 micron fraction (%) - Wet Sieving after chemical dispersion
PWS212-425	212-425 micron fraction (%) - Wet Sieving after chemical dispersion
PWS425-1mm	425-1000 micron fraction (%) - Wet Sieving after chemical dispersion
PWS63-212	63-212 micron fraction (%) - Wet Sieving after chemical dispersion