

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM141 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	G.M. Bowman	Locality:	
Date Desc.:	07/03/91	Elevation:	120 metres
Map Ref.:	Sheet No. : 7825 1:100000	Rainfall:	No Data
Northing/Long.:	5958530 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	283450 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Qs	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Surface crust

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Red Chromosol		Principal Profile Form:	Dr2.22
ASC Confidence:		Great Soil Group:	Non-calcic brown soil
Confidence level not specified			

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.15 m	Yellowish red (5YR4/6-Moist); Reddish yellow (5YR6/6-Dry); ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Lenticular; Sandy (grains prominent) fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Non-plastic; Non-sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2	0.15 - 0.28 m	Yellowish red (5YR5/6-Moist); Yellowish red (5YR5/8-Dry); ; Fine sandy clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; 50-100 mm, Lenticular; Earthy fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Non-plastic; Non-sticky; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B	0.28 - 0.73 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/8-Dry); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; 50-100 mm, Prismatic; Rough-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Non-plastic; Non-sticky; Few, fine (1-2mm) roots; Gradual, Irregular change to -
BC	0.73 - 1 m	Brown (7.5YR4/4-Moist); Strong brown (7.5YR5/6-Dry); Substrate influence, 7.5YR56, 20-50% , Distinct; Substrate influence, 5YR56, 10-20% , Distinct; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; 20-50 mm, Columnar; Smooth-ped fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Non-plastic; Non-sticky; Few, fine (1-2mm) roots;

Morphological Notes

Ap	Plough layer evident by weaker pedality and darker colour.
A2	Clear change to B but light textured and very crumbly. Bright brown colours.
B	Gradual change to heavier clay with dominantly yellow colour.

Observation Notes

Pasture since 86. Before that crops of peas, wheat and wheat. Pasture 1980-83.

Site Notes

STAN TREWICK - BELMORE

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM141
Agency Name: CSIRO Division of Soils (ACT)

Observation ID: 1

Observation ID: 1

[illegible]

Project Name: SOIL STRUCTURE & MANAGEMENT
Project Code: SSM **Site ID:** SSM141 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

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/cm3
P3B3VLc001	0.01 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc003	0.03 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc005	0.05 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc01	0.1 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLc03	0.3 BAR Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction plate
P3B3VLcSAT	Saturated Moisture m3/m3 - Volumetric using undisturbed 98mm diameter core on suction 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