

Project Name: New Farm Forest
Project Code: NFF **Site ID:** EDWD **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	27/02/97	Elevation:	120 metres
Map Ref.:	Sheet No. : 7022 1:100000	Rainfall:	No Data
Northing/Long.:	5835642 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	465529 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qpv	Substrate Material:	Auger boring, 0.5 m deep,Porous, Basalt

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Caldera
Morph. Type:	Simple-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	90 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Petroferric Black Chromosol Thick Non-gravelly Loamy Clayey Moderately deep		Principal Profile Form:	N/A

ASC Confidence:

No analytical data are available but confidence is fair.

Great Soil Group: N/A

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Eucalyptus globulus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.3 m	Black (7.5YR2/0-Moist); , 0-0% ; Loam; Moderate grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.3 - 0.4 m	Very dark grey (7.5YR3/0-Moist); , 0-0% ; Light clay; Moderate grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change
B22	0.4 - 0.5 m	Black (7.5YR2/0-Moist); , 0-0% ; Medium clay; Strong grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
BC	0.5 - 0.6 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Medium heavy clay; Strong grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; 10-20%, medium gravelly, 6-20mm, rounded, Ferricrete, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
BC2	0.6 - 0.7 m	Dark reddish brown (5YR3/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; 20-50%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -

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BC3	0.7 - 0.8 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 50-90%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Densipan, Weakly cemented, Continuous, Nodular; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
C	0.8 - 1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; 50-90%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Densipan, Weakly cemented, Continuous, Nodular; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
D	1 - 1.1 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Sandy light clay; Earthy fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Very sticky; 50-90%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 20-50%, medium gravelly, 6-20mm, rounded, dispersed, Limestone, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

Observation Notes

Black Volcanic Soils, Melanic, Petroferric, Black Chromosol, thick, non-gravelly, loamy, clayey, moderate

Site Notes

MT EDWARD, SE SOUTH AUSTRALIA, POOR GLOBULS GROWTH, Black Volcanic Soils, Melanic, Petroferric, Black Chromosol, thick, non-gravelly, loamy, clayey, moderate.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na				%
						Cmol (+)/kg				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m					g/g - m3/m3				mm/h mm/h

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Laboratory Analyses Completed for this profile