

Project Name: New Farm Forest
Project Code: NFF **Site ID:** JOH1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	26/02/97	Elevation:	60 metres
Map Ref.:	Sheet No. : 7022 1:100000	Rainfall:	No Data
Northing/Long.:	5825507 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	466220 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2.5 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Dunefield
Morph. Type:	Flat	Relief:	3 metres
Elem. Type:	Dunecrest	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Mesotrophic Brown Chromosol Medium Non-gravelly		Principal Profile Form:	N/A
Sandy Clayey Very deep			

ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Eucalyptus ovata, Acacia melanoxylon

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.2 - 0.6 m	Brown (10YR5/3-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2e	0.6 - 0.7 m	Pale brown (10YR6/3-Moist); , 10YR81, 10-20% , 5-15mm, Faint; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded, stratified, coarse fragments; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.7 - 0.9 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, <2 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 6.5 (Raupach); Clear, Smooth change to -
B22	0.9 - 2 m	Yellowish brown (10YR5/8-Moist); , 2.5YR46, 2-10% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7 (Raupach);

Morphological Notes

Observation Notes

MT BURR SAND, Manganic, Mesotrophic, Brown Chromosol, medium, non-gravelly, sandy, clayey, very deep

Site Notes

JOHNSONS SPECIES TRIAL EP201, SE SOUTH AUSTRALIA, plot 52, block 2, plot 4, plot 48 block 2 plot 97 block 4, Mt Burr Sand, Manganic, Mesotrophic, Brown Chromosol, medium, non-gravelly, sandy, clayey, very deep

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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