

Project Name: New Farm Forest
Project Code: NFF **Site ID:** LOX2 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	05/03/97	Elevation:	40 metres
Map Ref.:	Sheet No. : 7029 1:100000	Rainfall:	No Data
Northing/Long.:	6189083 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	467483 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1 m deep, Porous, Eolian sand

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Dunefield
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Dunecrest	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	90 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epihypersodic Subpeaty Calcic Calcarosol Medium Non-gravelly Sandy Sandy Deep		Principal Profile Form:	N/A

ASC Confidence:

No analytical data are available but confidence is fair.

Great Soil Group: N/A

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Yellowish red (5YR4/8-Moist); , 0-0% ; 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 9.5 (Raupach); Many, fine (1-2mm) roots; Clear, Wavy change to -
A1k	0.2 - 0.5 m	Reddish yellow (5YR6/6-Moist); , 0-0% ; Clayey 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; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 10 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -
Bk	0.5 - 1.2 m	Reddish yellow (5YR7/6-Moist); , 0-0% ; Clayey 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; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 10 (Raupach); Few, fine (1-2mm) roots; Gradual, Wavy change to -
Ckm	1.2 - 2 m	Yellowish red (5YR5/8-Moist); , 0-0% ; Sand; Single grain grade of structure; Few (<1 per 100mm2) Coarse (>5mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Calcrete, Weakly cemented, Continuous, Massive; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Same profile as lox1, but with saline irrigation water - pH's are 9.5 to 10 throughout

Site Notes

LOXTON SALINE IRRIGATION TRIAL, PLOT 1 REP 5, saline drainage (10000uS/cm), no fertilizer. Endohypersodic, Petrocalcic, Hypocalcic Calcarosol, thick, non-gravelly, sandy, sandy, 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