DEEP BLEACHED SILICEOUS SAND

General Description: Very thick bleached siliceous sand, becoming yellower or redder with depth

Landform:	Dunefield of mod high jumbled sar	derate to adhills							
Substrate:	Windblown Mol Sand.	ineaux				and the second sec			
Vegetation:	Mallee.								
Type Site:	Site No.:	MM028							
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6927-1 (Kulkami 350 mm Crest of high sand Loose with no sto	ami) Hundred: Cotton Sampling date: 20/11/91 sandhill						
Soil Description	on:								
Depth (cm)	Description								
0-7	Brownish yellow	v loose sand (drift).	Sharp to:			and the second second	and the second	inderer a	
7-19	Brown loose san	d. Clear to:							
19-79	Bleached loose s	and. Clear to:					1	5 6 7	
79-99	Reddish yellow s yellowish brown	soft loamy sand wi sandy loam. Sharj	e of				9		
99-157	Orange soft sand sandy loam. Diff	with lamellae of y use to:	rellowish	red				2 3 4 5	
157-217	Orange soft loan	ny sand.					127	7 8 9 7	

Classification: Basic, Argic, Bleached-Orthic Tenosol; medium, non-gravelly, sandy / sandy, very deep

Summary of Properties

Drainage	Rapidly drained. Soil never remains wet for more than a few hours.								
Fertility	Inherent fertility is very low, as indicated by the exchangeable cations data and low clay and organic carbon contents. Phosphorus, nitrogen, potassium, copper, zinc and manganese are all likely to be deficient.								
рН	Neutral to slightly acidic at the surface, neutral with depth.								
Rooting depth	40 cm in pit.								
Barriers to root growth									
Physical:	No physical barriers.								
Chemical:	No chemical barriers, other than very low nutrient status and retention capacity.								
Water holding capacity	25 mm in root zone.								
Seedling emergence:	Usually reduced by water repellence.								
Workability:	Loose sand is easily worked.								
Erosion Potential									
Water:	Low.								
Wind:	Very high to extreme.								

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P	Avail. K	Boron mg/kg	Trace Elements mg/kg (DTPA)			CEC cmol	Exc	ESP				
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
0-7	7.3	7.2	<1	0.02	0.17	0.1	7	48	3.0	< 0.05	3.3	0.18	< 0.06	1.0	0.86	0.36	0.14	0.11	na
7-19	6.6	6.6	<1	0.02	0.14	0.3	4	<40	< 0.50	< 0.05	11	< 0.06	< 0.06	0.9	0.97	0.26	0.09	0.06	na
19-47	6.9	7.0	<1	0.02	0.08	0.1	<2	<40	1.2	< 0.05	6.1	< 0.06	< 0.06	0.7	0.77	0.23	0.12	0.04	na
47-79	6.9	6.9	<1	0.01	0.08	< 0.1	<2	<40	1.0	< 0.05	5.1	< 0.06	< 0.06	0.8	0.73	0.32	0.12	0.04	na
79-99	7.1	7.0	<1	0.01	0.06	< 0.1	<2	<40	< 0.50	< 0.05	2.7	< 0.06	< 0.06	1.0	0.85	0.41	0.14	0.05	na
99-127	7.0	7.1	<1	0.01	0.06	< 0.1	<2	<40	< 0.50	< 0.05	3.1	< 0.06	< 0.06	1.7	0.96	0.80	0.10	0.07	na
127-157	7.1	6.8	1	0.01	0.09	< 0.1	<2	54	< 0.50	< 0.05	2.8	< 0.06	< 0.06	2.6	1.28	1.58	0.16	0.08	na
157-217	7.5	6.9	1	0.01	0.07	< 0.1	<2	50	< 0.50	< 0.05	1.7	< 0.06	< 0.06	2.4	1.10	1.32	0.16	0.08	na

Note: CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC