THICK BLEACHED SAND OVER SANDY LOAM

General Description: Thick to very thick sand over a red or brown sandy loam, usually calcareous with depth

Landform:	Plains with scatte depressions and and limited areas irregular sandhil	ered stony rises, s of ls.					
Substrate:	Medium textured sediments (Parill equivalent).	l Tertiary a Sand					A. 33400.
Vegetation:	Mallee.						3
Type Site:	Site No.:	MM140					
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6928 - 2 (Nob 300 mm Dune slope, 4 Loose with no	oah) % 9 stones	Hundro Sampli	ed: ing date:	Mindarie 22/02/99	
Soil Descriptio	n:						
Depth (cm)	Description						
0-7	Brown loose loa	my sand. Clear	to:				
7-65	Light brown (ble	eached) soft san	nd. Clear to:				
65-77	Brown friable m	assive sandy lo	am. Abrupt to):			
77-145	Yellowish red so	oft massive sand	dy loam. Clea	r to:	Provide State		
145-165	Yellowish red sli sandy clay loam blocky structure.	ightly calcareou with moderate	us friable fine fine angular			2 3 4 5	

Summary of Properties

Drainage	Well drained. Soil never remains saturated for more than a few days.								
Fertility	Inherent fertility is low, as indicated by the exchangeable cation data. Nutrient retention capacity is low due to low clay and organic matter content. Regular phosphorus applications are essential. Nitrogen levels depend on cropping history and legume status of pastures. Occasional zinc and copper deficiencies are likely. Concentrations of both are marginal at the sampling site. Phosphorus levels are low.								
рН	Neutral at the surface, alkaline with depth.								
Rooting depth	Not recorded. Estimate 77 cm in pit.								
Barriers to root growth									
Physical:	There are no barriers.								
Chemical:	There are no chemical barriers - root growth is restricted by low nutrient status and retention capacity.								
Water holding capacity	Approximately 60 mm in the estimated root zone.								
Seedling emergence:	Satisfactory, although water repellence may be a problem in dry seasons.								
Workability:	Soft / loose surface is easily worked.								
Erosion Potential									
Water:	Low.								
Wind:	Moderate.								

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	SO ₄ -S mg/kg	Trace Elements mg/kg (DTPA)			CEC cmol	Exchangeable Cations cmol(+)/kg				ESP		
							mg/kg	g mg/kg			Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	6.8	6.7	-	0.06	0.9	0.44	7	136	-	0.8	0.2	-	1.6	0.4	3.0	2.0	0.51	< 0.1	0.22	na
0-7	7.2	7.4	-	0.06	0.9	0.37	10	112	-	1.0	0.1	-	1.9	1.0	3.2	1.9	0.61	< 0.1	0.28	na
7-65	7.4	7.4	-	0.03	0.4	0.10	1	50	-	0.6	0.3	-	0.2	0.1	1.9	1.5	0.35	< 0.1	0.09	na
65-77	7.5	7.1	-	0.03	0.4	0.07	1	80	-	0.7	0.3	-	0.1	0.1	4.3	1.8	1.0	< 0.1	0.18	2.3
77-145	8.6	8.0	-	0.10	1.4	0.07	1	129	-	1.1	0.2	-	0.1	0.1	5.1	1.8	2.0	< 0.1	0.27	2.0
145-165	9.5	8.5	-	0.30	2.9	0.11	1	453	-	6.6	0.5	-	0.4	0.2	12.5	3.4	6.7	2.8	1.3	22.4

Note: Paddock sample bulked from cores (0-10 cm) taken around the pit.

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.