## **DEEP SAND**

## *General Description:* Very thick red to brown sand becoming calcareous and slightly more clayey with depth

Landform:	Dunefields									
Substrate:	Windblown Mol with soft carbona	ineaux Sand ates								
Vegetation:	Mallee									
Type Site:	Site No.:	MM007								
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6927-4 (Mara 330 mm Crest of low s Loose with no	ma) andhill 9 stones. Uppe	Hundred: Sampling date: er 38 cm of profile	Wilson : 12/09/91 file is recent drift.					
Soil Description	1:									
Depth (cm)	Description									
0-8	Brown loose sand. Sharp to:									
8-30	Orange loose sar	d. Sharp to:								
30-38	Brown loose san	d. Abrupt to:								
38-60	Dark brown soft	sand. Gradual	to:	44 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						
60-81	Orange soft sand	. Diffuse to:								
81-102	Orange soft sand	. Sharp to:		*14 I	-	-				
102-107	Lamellae of oran Clear to:	ge loamy sand	and sandy lo	am.		1 -				

107-185 Yellowish red soft loamy sand with minor fine calcareous segregations.

Classification: Calcareous, Argic, Brown-Orthic Tenosol; medium, non-gravelly, sandy / sandy, very deep

## Summary of Properties

Drainage	Rapidly drained. Soil never remains saturated for more than a few hours.							
Fertility	Inherent fertility is low, as indicated by the exchangeable cation data. Low clay and organic matter levels limit nutrient retention capacity. Phosphorus and probably nitrogen are deficient at the sampling site.							
рН	Neutral at the surface, alkaline with depth.							
Rooting depth	80 cm in pit, but few roots below 40 cm.							
Barriers to root growth								
Physical:	None.							
Chemical:	Low nutrient status / retention capacity.							
Water holding capacity	Approximately 25 mm in rootzone.							
Seedling emergence:	Satisfactory, except where affected by water repellence.							
Workability:	Loose surface is easily worked.							
<b>Erosion Potential</b>								
Water:	Low.							
Wind:	Moderately high.							

## Laboratory Data

Depth cm	pH H <sub>2</sub> O	pH CaC1 <sub>2</sub>	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	C Avail. Avail. P K		Avail. Boron K mg/kg		Trace Elements mg/kg (DTPA)			CEC cmol	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	6.6	6.4	< 0.1	0.05	0.61	0.42	13	200	< 0.5	0.21	7.11	2.18	0.66	2.9	2.49	0.65	0.10	0.35	na
0-8	6.3	6.0	< 0.1	0.03	0.34	0.46	14	220	< 0.5	0.14	8.43	2.29	0.86	2.8	2.31	0.65	0.11	0.28	na
8-30	6.2	6.1	< 0.1	0.02	0.18	0.17	2.3	210	< 0.5	0.23	4.33	1.32	0.56	2.0	1.68	0.46	0.12	0.22	na
30-38	-	-	-	-	I	-	-	-	-	-	-	-	-	-	I	-	-	-	-
38-60	8.3	7.1	0.4	0.08	0.60	0.54	3	55	0.9	0.08	10.43	0.69	0.44	3.8	4.24	0.84	0.07	0.10	1.8
60-81	7.6	6.9	< 0.1	0.05	0.56	0.16	1.8	7.8	< 0.5	0.04	8.16	0.12	0.68	2.4	2.10	0.53	0.07	0.09	na
81-102	8.2	7.6	< 0.1	0.06	0.65	0.12	1.6	47	0.7	0.08	5.04	0.19	0.30	2.2	2.14	0.67	0.07	0.16	na
102-107	8.7	7.6	0.2	0.11	1.03	0.22	2.3	240	2.5	0.36	9.82	0.06	0.33	5.0	4.57	1.47	0.17	0.37	3.4
107-185	8.7	7.5	0.2	0.10	1.01	0.08	1.8	200	1.6	0.19	3.68	0.13	0.38	3.8	2.95	1.29	0.14	0.44	3.7

**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.