SANDY LOAM OVER RED SANDY CLAY

General Description: Sandy loam over a coarsely structured red sandy clay, calcareous with depth

Landform:	Flats on gently undulating plains or dunefields	
Substrate:	Tertiary sands.	
Vegetation:	Mallee	

1:50,000 sheet: 6928-3 (Halidon) Hundred: Wilson Annual rainfall: 315 mm Sampling date: 05/09/91 Flat on very gently undulating plain Landform: Firm with no stones Surface:

MM006

Soil Description:

Type Site:

Site No.:

Depth (cm)	Description	
0-12	Dark reddish brown soft sandy loam. Abrupt to:	
12-27	Red soft sandy loam. Sharp to:	
27-36	Red sandy clay with coarse columnar structure and sandy loam between columns. Clear to:	ande an
36-62	As above, without the sandy loam. Clear to:	
62-88	Yellowish red calcareous sandy loam. Gradual to:	
88-115	Orange very highly calcareous loamy sand. Diffuse to:	1. S.
115-150	Orange moderately calcareous loamy sand. Diffuse to:	1
150-195	Orange loamy sand with 20-50% ironstone. Diffuse to:	and the second
195-	Yellowish brown sandy loam.	



Classification: Sodic, Calcic, Red Chromosol; medium, non-gravelly, loamy / clayey, deep

Summary of Properties

Drainage	Well drained. Soil rarely remains saturated for more than a few days.							
Fertility	Inherent fertility is moderate, as indicated by the exchangeable cation data. Improved organic matter status will augment nutrient retention capacity. Phosphorus, copper and zinc are deficient at the sampling site.							
рН	Slightly acidic at the surface, alkaline with depth.							
Rooting depth	50 cm in pit.							
Barriers to root growth								
Physical:	hysical: Hard sandy substrate material from 60 cm limits root growth.							
Chemical:	No apparent chemical barriers, other than low nutrient status.							
Water holding capacity	Approximately 65 mm.							
Seedling emergence:	Satisfactory.							
Workability:	Firm surface is easily worked.							
Erosion Potential								
Water:	Low.							
Wind:	Low to moderately low.							

Laboratory Data

Depth pH cm 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	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	g/kg mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	К	
Paddock	6.3	6.2	< 0.1	0.08	0.50	0.46	11	120	0.38	0.14	8.1	3.2	0.29	3.6	2.40	0.61	0.06	0.19	1.7
0-12	6.4	6.1	< 0.1	0.06	0.25	0.70	14	130	0.41	0.15	16	7.1	0.94	4.6	4.26	0.74	0.06	0.20	1.3
12-27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27-36	7.1	6.5	< 0.1	0.06	0.31	0.19	2.4	110	0.76	0.11	6.9	0.58	0.30	6.2	7.20	2.20	0.30	0.22	4.8
36-50	6.8	6.8	< 0.1	0.06	0.31	0.16	1.6	86	1.3	0.08	13	0.54	0.36	15.9	10.65	3.67	0.34	0.26	2.1
50-62	6.9	6.9	< 0.1	0.06	0.32	0.13	1.4	55	1.0	0.08	3.5	0.48	0.14	15.1	10.01	3.91	0.38	0.23	2.5
62-88	8.8	7.3	0.9	0.14	0.46	0.07	1.6	63	0.62	0.10	3.3	0.22	0.37	4.2	6.46	2.66	0.33	0.15	7.9
88-115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115-150	9.2	7.6	1.5	0.23	0.73	0.07	1.5	63	0.94	0.11	2.5	0.09	0.29	6.3	4.06	2.29	0.88	0.12	14.0
150-195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.