## **DEEP SANDY LOAM**

General Description:

Very thick brown sandy loam overlying calcareous clayey sand.

Landform:	Murray River fla	ıts.							
Substrate:	Coarse textured a deposits (Monon Formation).								
Vegetation:									
Type Site:	Site No.:	MR005							
	1:50,000 sheet:6929-1 (Overland Corner) Hundred:Out of HundredsAnnual rainfall:240 mmSampling date:27/09/04Landform:Murray River flat4000000000000000000000000000000000000								
Soil Description	1:								
Depth (cm)	Description								
0-15	Dark reddish brown firm massive sandy loam. Clear to:								
15-35	Brown friable massive sandy loam. Gradual to:								
35-70	Brown friable ma	assive sandy loam. Clear to:							
70-100		massive highly calcareous 2-10% fine carbonate adual to:							
100-135	Brownish yellow light clayey sand	v soft massive highly calcareous l. Gradual to:							
135-175		and pale brown mottled soft alcareous clayey sand.							

Classification: Calcareous, Regolithic, Brown-Orthic Tenosol; medium, non-gravelly, loamy / loamy, deep

## Summary of Properties

Drainage:	Well drained. The soil is unlikely to remain wet for more than a day or so following heavy or prolonged rainfall (or irrigation).								
Fertility:	Inherent fertility is moderate, as indicated by the clay content and the exchangeable cation data. Test data indicate that levels of all measured nutrients are satisfactory.								
рН:	Alkaline throughout.								
Rooting depth:	175 cm in pit, but few roots below 100 cm.								
Barriers to root growth	::								
Physical:	There are no apparent physical barriers.								
Chemical:	There are no chemical barriers.								
Water holding capacity	e are no apparent physical barriers. e are no chemical barriers. mates for potential root zone of irrigated crops) available: 140 mm ily available: 65 mm								
Seedling emergence:	Fair to good, depending on condition of surface soil.								
Workability:	Satisfactory. The sandy loam surface, although prone to setting hard, is readily worked over a range of moisture conditions.								
<b>Erosion Potential</b>									
Water:	Low.								

Wind: Low.

## Laboratory Data

Depth cm	pH H2O	pH CaC1 <sub>2</sub>	CO3 %	EC 1:5 dS/m	ECe dS/m	Org.C %	Avail. P	Avail. K	Cl mg/kg	SO <sub>4</sub> -S mg/kg		Trace Elements mg/kg (EDTA)				Sum cations	Exchangeable Cations cmol(+)/kg				ESP
							mg/kg	mg/kg				Cu	Fe	Zn	Mn	cmol (+)/kg	Ca	Mg	Na	К	
0-15	7.9	7.1	0	0.097	0.40	1.00	85	602	12	4.7	1.1	10.7	100	12.6	147	12.6	7.84	2.91	0.32	1.49	2.6
15-35	8.2	7.4	0	0.087	0.48	0.32	39	397	13	4.3	0.4	3.85	58	2.32	107	8.3	5.18	1.92	0.30	0.88	3.7
35-70	8.7	7.8	1	0.094	0.41	0.16	18	256	15	6.7	0.2	1.52	27	0.15	67.4	8.6	6.24	1.57	0.29	0.46	3.4
70-100	8.9	7.9	7	0.147	2.12	0.14	11	132	57	31.5	0.2	0.79	6	0.17	8.62	10.8	8.93	1.41	0.16	0.26	1.5
100-135	9.0	7.9	3	0.140	1.85	0.10	9	107	82	25.8	0.2	0.68	8	0.20	10.5	8.8	7.64	0.96	0.04	0.19	0.4
135-175	8.8	7.9	2	0.188	2.55	0.15	9	90	151	29.6	0.3	2.88	15	1.24	46.3	8.5	6.74	1.37	0.19	0.23	2.2

**Note:** Sum of cations, in a neutral to alkaline soil, approximates the CEC (cation exchange capacity), 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, in this case estimated by the sum of cations.