

<b>Site code<sup>1</sup></b>	<b>MM5155</b>
<b>Location</b>	<b>Steiglitz (Butchers Road), Anakie district, south-west Victoria</b>
<b>Landform</b>	Undulating rises
<b>Geology</b>	Neogene Werribee Formation: fluvial sand, sandy and silty clay, carbonaceous, pyritic in part
<b>Element</b>	Mid slope

### Profile morphology

Horizon	Depth (cm)	Description
A1	0–15	Very dark grey (10YR3/1); loamy sand; clear boundary to:
A2	15–50	Pale brown (10YR6/3), sporadically bleached, very pale brown (10YR7/3 dry); sand; sharp boundary to:
A3	50–70	Brownish yellow (10YR6/6); sandy loam; many fine segregations; boundary to:
B2	70+	Yellowish brown (10YR5/8) with red (2.5YR4/6) mottles; medium clayey sand; strong platy structure; firm consistence (moderately moist).

**ASC:** Ferric, Mottled-Subnatric, Brown Sodosol (deep sandy topsoil)

### Analytical data<sup>2</sup>

Site MM5155 Horizon	Sample depth cm	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex acidity
		H <sub>2</sub> O	CaCl <sub>2</sub>	dS/m	%	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	cmol <sub>c</sub> /kg	mg/kg	cmol <sub>c</sub> /kg
A1	0–15	5.6	N/R	0.02	N/R	0.9	0.9	0.1	0.1	N/R	7.3
A2	15–50	5.6	N/R	N/R	N/R	0.1	0.1	0	0.1	N/R	2.7
A3	50–70	6.2	N/R	N/R	N/R	0	0	0	0.3	N/R	4.2
B2	70+	6	N/R	0.05	N/R	0.1	0.1	0.1	0.6	N/R	8.6

Site MM5155 Horizon	Sample depth cm	FC (-10kPa) %	PWP (-1500kPa) %	KS %	FS %	Z %	C %	Org C %	Bulk density t m <sup>-3</sup>
A1	0–15	9.7	5.3	46	42	6	2	2.2	1.23
A2	15–50	N/R	N/R	44	43	9	3	0.5	N/R
A3	50–70	27.8	19.8	35	38	12	14	N/R	N/R
B2	70+	N/R	N/R	25	24	14	39	N/R	1.44

### Management considerations

Deep sandy topsoil overlies a strong texture contrast between the surface soil and the subsoil. The A horizon exhibits a sporadically bleached soil leading to many fine segregations which are key features of this profile. The subsoil has prominent mottling which is another prominent feature of this soil type.

Increasing organic matter and maintaining vegetative cover is important to help stabilise the sandy topsoil and improve the soil structure. Penetration by deep-rooted crops is also a recommended management practice.

<sup>1</sup> Source: Maher JM, Martin JJ 1987 Soils and landforms of south-western Victoria. Department of Agriculture and Rural Affairs. Research Report No. 40.

<sup>2</sup> Source: Government of Victoria, State Chemistry Laboratory.