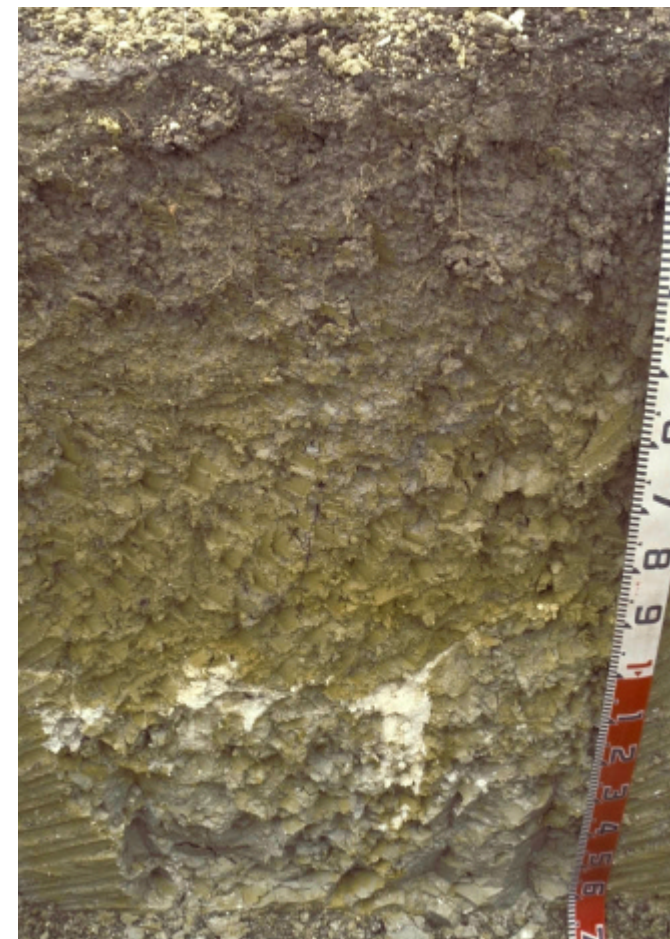


Site code¹ SW53



View to south-west from site

Location Cooriemungle (Boorook Road), Heytesbury district, south-west Victoria
Landform Rolling hills
Geology Neogene Gellibrand Marl: *marine clays*
Element Crest
Slope 2%
Aspect South-west



Vertic (and Sodic), Calcic Grey CHROMOSOL

Horizon	Depth (cm)	Description
A1	0–15	Very dark greyish brown (10YR3/2 moist and 10YR5/3 dry); silty clay loam; weakly pedal structure; medium to fine (2–20 mm) polyhedral structure; pH 5.7; abrupt and smooth boundary to:
B21g	15–60/70	Dark greyish brown (2.5Y4/2 moist) common (~15%), yellowish brown (10YR5/8 moist) mottles; medium clay; coarse (20–50 mm) polyhedral, parting to medium to fine (2–20 mm) polyhedral structure; pH 5.7; gradual and wavy boundary to:
B22g	60/70–105/115	Light olive grey (2.5Y5/4 moist [50%] and grey 2.5Y5/1 moist [50%]); medium to heavy clay; coarse (50 mm) polyhedral or angular blocky, parting to medium to fine (5–20 mm) polyhedral structure; slickensides (>20 mm); pH 7.4; abrupt and irregular boundary to:
B23k _{gss}	105/115–160+	Light olive grey (5Y6/2 moist); common (~20%), yellowish brown (10YR5/8 moist) mottles; heavy clay; very coarse (100–300 mm) angular blocky, parting to coarse (20–50 mm) polyhedral or angular blocky, and medium to fine (2–20 mm) lenticular structure; soft white calcareous accumulations (up to 100 mm) at top of horizon; slickensides (>100 mm); pH 8.9.

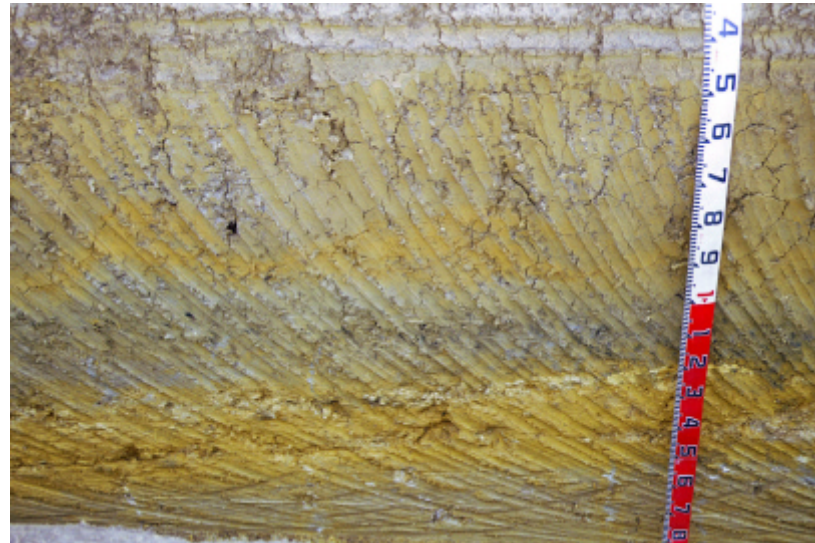
Management considerations

Generally used for dairying, these soils are prone to waterlogging and pugging. Although there is calcium carbonate at depth, surface horizons tend to be acidic and respond well to liming. On the steeper slopes this soil is highly prone to landslides. Subsurface drainage incorporating closely spaced mole drains works well in these soils.

¹ Source: MacEwan R, Imhof M (in press) Major Soils and Landscapes along the Southwest Gas Pipeline 1999. DPI

Analytical data²

Site SW53	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC	PWP	KS	FS	Z	C
		cm	H ₂ O														
A1	0-10	5.7	4.9	0.11	N/R	8.8	3.8	0.63	0.48	13	15	38.6	17.4	7.4	25.4	30	27
B21	15-60	5.7	4.5	0.1	N/R	8.5	9.4	0.51	1.2	240	13	44.5	24.1	0.5	17.4	19	58.5
B22	70-105	7.4	6.2	0.16	N/R	16	13	0.43	3.2	N/R	N/R	53	26.3	0.7	12.1	17.5	65
B23	105-160	8.9	8.9	0.77	0.09	16	14	2.9	5.8	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R



Slip plane features evident in trench below SW53: view downslope (left) profile view (centre), view upslope (right)

² Source: Government of Victoria State Chemistry Laboratory.