Site Code¹ SW71



View from site SW71 westwards along pipeline easement (SW70 is on the distant slope).

Location Foothills south of Colac; between Irrewillipie road and Colac-Lavers Hill road

Landform Undulating low hills

Geology Cretaceous Otway Group:

volcanogenic sandstone

Element Waxing upper slope

Slope 8%

Aspect West

Horizon	Depth (cm)	Description						
A1	0–20	Dark grey (10YR4/1 moist), greyish brown (10YR5/2 dry), fine sandy loam; moderately pedal; weak to firm consistence; pH 5.5; boundary to:						
A2e	20-50/60	Light brownish grey ($2.5Y6/2$ moist), conspicuously bleached ($2.5Y8/1$ dry); fine sandy loam; hard setting; common ($<20\%$) fine ferromanganiferous gravel (mostly not magnetic) sporadic and not in thick layer; very firm consistence; clear to gradual change (incipent B1) to; pH 5.8 ; boundary to:						
B21ss	50/60-100/120	Dark yellowish brown (10YR3/4 moist and dry); many (~25%), faint, fine to coarse (5-20 mm) yellow brown/dark red mottles; heavy clay; coarse (50-120 mm) prismatic, parting to thick lenticular or angular blocky structure; slickensides; pH 6.0;diffuse yellower; boundary to:						
C/B	100/120+	Brownish yellow (10YR6/8 moist) to yellow (10YR8/8 dry); fine sandy with white (10YR8/1 moist) and very dark grey (5YR3/1 moist) ped faces; below 150 cm extremely hard to break with geopick; cemented ferruginised sandstone.						

Management considerations

Fine sandy loam topsoil overlying this swelling clay (80% clay in the subsoil) renders this profile subject to waterlogging. Water erosion is also a hazard for this soil. Chemical fertility is low and the soil is acidic – Aluminium toxicity to plant growth is likely to reduce pasture yields unless lime is applied.



Bleached-Vertic (and mottled), Magnesic, Brown CHROMOSOL

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

Analytical data²

Site SW71	Sample depth	pН		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC -10kPa	PWP -1500kPa	KS	FS	Z	С
Horizon	cm	H ₂ O	CaCl ₂	dS/m	%	cmolc/kg	cmolc/kg	cmolc/kg	cmolc/kg	mg/kg	cmolc/kg	%	%	%	%	%	%
A1	0-10	5.5	4.7	0.12	N/R	3.2	2.1	0.23	0.35	23	14	33.5	11.4	9.5	38	26.5	18
A2	30-50	5.8	4.7	< 0.05	N/R	0.67	0.96	< 0.05	0.17	23	6.2	19.1	6.8	7.8	44.5	24	23.5
B21	65-85	6	4.9	0.1	N/R	1.2	12	0.15	1.4	19	13	43	27	1.4	11.4	7	79.5

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 $^{^{2}}$ Source: Government of Victoria State Chemistry Laboratory.