

Site Code¹ **SW63**



Location South of Simpson: Lavers Hill Road and Princetown Road
Landform Gently undulating plain
Geology Neogene Hanson Plain Sand Formation
Element Plain
Slope <1%
Aspect 0

View of the plain south of Simpson taken from this soil site (SW63)

Horizon	Depth (cm)	Description
Ah	0-50	Black (10YR2/1 moist); loamy sand, apedal; weak consistence; many whitish sand grains; horizon becomes paler; dark grey (10YR4/1) at about 15 cm but difference is not marked enough to be described as A2; pH 5.1; abrupt and wavy boundary to:
B21sm	50-52	Dark brown (10YR3/3) to dark yellowish brown (10YR3/4) light fine sandy clay loam; weakly cemented thin pan; firm consistence; clear boundary to:
B22s(g)	52-80/90+	Mottled light olive brown (2.5Y5/3 moist) pale yellow (2.5Y7/3 dry) and olive yellow (2.5Y6/6); fine sandy clay loam; apedal massive; firm consistence; pH 4.6; diffuse boundary to:
B23g	80/90+	Mottled light yellowish brown (2.5Y6/3) light grey (2.5Y7/2 dry) and yellowish brown (10YR5/8); loam; apedal massive; pH 4.6

Management considerations

Very sandy surface soil is quite high in organic matter (6.8% organic carbon) which assists in maintaining soil stability and nutrient retention. The very low clay content and acidity is typical of these Podosols in the Hanson Plain Sand. The B21 thin iron pan is a barrier to root growth and to water movement. The mottled colours in the deeper B horizons (B22 and B23) indicate a soil that is subject to waterlogging. Compare this soil with SW61 for a variant of the Podosol and with SW60 and SW62 for other soils found in this land element.



Humose, Sesquic, Aquic PODOSOL (thick sandy surface/clay loamy subsoil)

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

Analytical data²

Site SW63	Sample depth	pH		EC	NaCl	Ex Ca	Ex Mg	Ex K	Ex Na	Ex Al	Ex Acidity	FC	PWP	KS	FS	Z	C
		H ₂ O	CaCl ₂														
Horizon	cm			dS/m	%	cmol _c /kg	cmol _c /kg	cmol _c /kg	cmol _c /kg	mg/kg	cmol _c /kg	%	%	%	%	%	%
A	0-50	5.1	3.9	0.12	N/R	2.8	0.52	0.55	0.31	59	19	22.5	11.4	26.1	43	15	3
B22s(g)	50-85	4.6	4.4	0.1	N/R	0.09	0.1	<0.05	0.23	160	11	17.8	8.3	16.9	47.4	15.5	16.5
B23g	85+	4.6	4.2	0.07	N/R	<0.05	0.17	<0.05	0.16	170	4.9	14.3	5.4	17.5	48.4	18.5	15.5

² Source: Government of Victoria State Chemistry Laboratory.