

KRO Kromelite Land System

Area:	46.4 km ²
Landscape:	Sand plain east of Mt. Gambier with mostly deep sand on the plains and a few low rises with deep sand over brown clay soils. Occasional outcrops of calcarenite occur.
Annual rainfall:	745 – 755 mm average
Geology:	Pleistocene Coomandook Formation limestone and sandy calcareous sediments.
Main soils:	I1 (53%) Highly leached sand (Aeric Podosol)
Minor soils:	H3 (19%) Bleached siliceous sand (sandy Bleached Tenosol) I2 (14%) Bleached siliceous sand (sandy Bleached Tenosol) G2 (9%) Bleached sand over sandy clay loam (sandy Brown-Red Chromosol) G3 (5%) Thick sand over clay (sandy Brown-Red Chromosol-Sodosol)
Summary:	Soils are well-drained sands mostly. Water repellence and acidity are the main land use constraints, with low fertility and wind erosion potential also requiring careful management.

SLU	% of area	Component	Main soils	Prop#	Notes
MRB	3.5	Rise	G3	D	MRB Gently undulating calcreted former beach ridge with very shallow red and brown loam/red clay soils, <10% deep leached sand or sand/clay rises. MRC As above undulating rises. Main soils: <u>Thick sand over clay</u> - G3 .
MRC	2.1	Rise	G3	D	
OFC	0.8	Dune	I1	D	OFC Deep moderately to highly leached siliceous sands on dunes. OFD As above, low dunes. Main soils: <u>Highly leached sand</u> - I1 .
OFD	1.8	Low dune	I1	D	
PBA	91.7	Plain	I1	D	Sand plain with well-drained, deep leached siliceous sands. Main soils: <u>Highly leached sand</u> - I1 .

PROPORTION codes assigned to Soil Landscape Unit (SLU) components:

- D Dominant in extent (>90% of SLU)
- V Very extensive in extent (60–90% of SLU)
- E Extensive in extent (30–60% of SLU)
- C Common in extent (20–30% of SLU)
- L Limited in extent (10–20% of SLU)
- M Minor in extent (<10% of SLU)



Detailed soil profile descriptions:

- G3** Thick sand over clay (Hypercalcic, Brown Sodosol/ Chromosol)
Thick bleached sand with an organically darkened surface abruptly overlying a massive to coarsely structured brown to reddish yellow sandy clay to clay, calcareous with depth - rises.
- I1** Highly leached sand (Fragic, Pipey, Aeric Podosol)
Grey sand with a very thick bleached A2 layer, over dark brown and yellow massive soft to semi-hard clayey sand (coffee rock), grading to softer yellow and brown sand to sandy clay loam from about 80 cm.

Further information: [DEWNR Soil and Land Program](#)

