



Breamlea – climate coastal risk overview

There are nine risks that have been rated as medium, high or extreme at this location. There are no highly rated risks in 2030, but seven of the nine are rated as high or extreme in 2100.

This is a low lying area with many risks arising under 0.2 m sea level rise.

The extreme rated risk in 2100 is the risk of inundation of hooded plover nests. The Hooded plovers nest along the open coastline and are listed as vulnerable in Victoria. Other environmental risks include risk of rising groundwater tables and the inundation of the Karaffe wetland.

There are also risks to roads and the Blackgate Road bridge in this location. The Blackgate Road bridge is built up, potentially mitigating the risk despite it being within the inundation zone on the maps. Horwood Road though is a low-lying road, and can be inundated at low levels of sea level rise and storm surge.

Some preliminary erosion investigations have been completed in this location, and there is a risk of erosion of the primary dune system near the Bancoora Surf Life Saving Club. This could undermine the surf life saving club building and impact on the local environmental values, however, it is unknown at which SLR scenario this might occur at.

The medium (yellow), high (orange) and extreme (red) risks that have been identified for this location are listed in the table below. Where risks are duplicates at the different SLR scenarios, the highest rated risk is included and other SLR scenarios noted.

Risk	Asset	SLR scenario	2030	2100
Inundation of Hooded Plover nests)	Environmental	0.2 m	Orange	Red
Higher underground water levels	Environmental	0.2 m	Yellow	Orange
Inundation of Karaffe wetland	Environmental	0.2 m	Yellow	Orange
Increased mosquito breeding due to inundation of local areas	Environmental	0.2 m	Yellow	Orange
Inundation of Horwood Road	Road and footpath	0.2 m	Yellow	Orange
Inundation of bridge - Blackgate rd ¹	Road and footpath	0.2 m	Yellow	Orange
Erosion and breach in primary dune due to erosion around Bancoora SLSC	Building	unknown	Yellow	Yellow
Accelerated erosion from inundation of dune	Environmental	unknown	Yellow	Yellow

¹ Risk also rated as medium and high under the 0.8 m SLR scenario.

