



St Leonards South – climate coastal risk overview

There are 22 risks that have been rated as medium, high or extreme at this location. There are two highly rated risks in 2030. This rises to 13 in 2100.

Risks that are rated high in 2100 include risks to environmental, drainage, open space and private property. Swan Bay, Duck island, Mud island, Swan

island and Edwards point are low lying and will be inundated under the 0.2 m sea level rise (SLR) scenario.

Under the 0.2 m SLR scenario, 23 private properties may be inundated, this rises to 118 properties under the 0.8 m SLR scenario. There are also a number of risks to open space and recreational assets in the location under the 0.2 m SLR scenario - risks to the local boat ramp, the Area 3 & 4 caravan park, and various local open spaces.

The medium (yellow) and high (orange) 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.

There are risks across a number of different asset types – environmental, private property and open space.

Risk	Asset	SLR scenario	2030	2100
118 private buildings in Lower Bluff inundated ¹	Private	0.8 m		
Inundation of Swan Bay ²	Environmental	0.8 m		
Inundation of duck island, mud island, swan island and Edwards point (65.57ha OBP habitat, approx 254 ha native veg, 317 ha intertidal salt marsh, 246 ha wetlands) ³	Environmental	0.2 m		
Inundation of St Leonards boat ramp ⁴	Open space	0.2 m		
Inundation of sewer systems in Lower Bluff area (443 m sewer gravity pipes, 13 sewer nodes) ⁵	Drains and water network	0.2 m		
Inundation of open space - St Leonards main beach,	Open space	0.2 m		

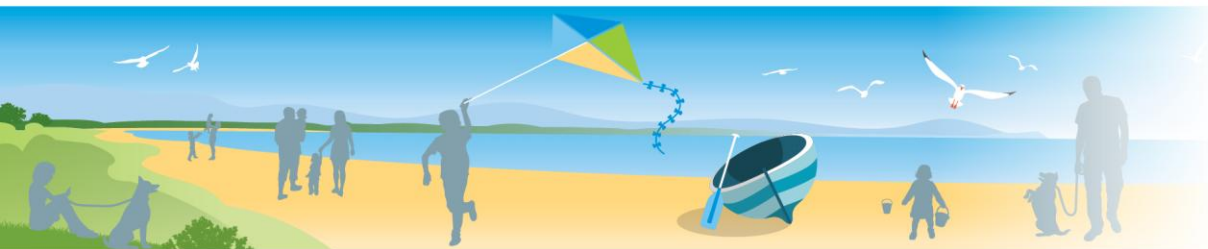
¹ There are 23 properties at risk under the 0.2 m SLR scenario and 56 under the 0.5 m SLR scenario.

² Risk also rated as medium and high under the 0.2 and 0.5 m SLR scenario.

³ Risk also rated as medium and high under the 0.5 m SLR scenario and as medium under 0.8 m SLR scenario.

⁴ Risk also rated as medium and high under the 0.5 m SLR scenario, and as medium under 0.8 m SLR scenario.

⁵ Risk also rated as medium and high under the 0.8 m SLR scenario with asset numbers inundated rising to 2,376m sewer gravity pipes, and 65 sewer nodes.



Lower Bluff & St Leonards reserve (approx. 10,000sqm in total) ⁶				
Area 3 & 4 caravan park inundated (3541 sqm) ⁷	Private	0.2 m		
Inundation of grassy woodlands & Bellarine Yellow gums	Environmental	0.8 m		
Inundation of drains (22 pits, 311m of pipes, 1,600m of Barwon Water drains into Port Philip)	Drains and water network	0.8 m		
Reduction in open space availability surrounding the yacht club	Open space	0.8 m		
Inundation of Swan Bay Cabins	Private	0.8 m		

⁶ Risk also rated as medium under the 0.8 m SLR scenario.

⁷ Risk also rated as medium under the 0.8 m SLR scenario.