

YORKE PENINSULA COUNCIL FACT SHEET

COASTAL PROTECTION STRUCTURES PROJECT

PORT CLINTON LEVEE CONCEPT

Why do we need protection at Port Clinton?

Port Clinton is located at the northern end of Gulf St Vincent and is vulnerable to seawater flooding during high tides and storm surges. Over time the seawater flood risk will also increase with sea level rise.

Council has undertaken several studies, investigating the potential extent of seawater flooding at Port Clinton and identifying potential future adaptation options to manage seawater flood risk. This seawater flood study is available online at:

<https://yorke.sa.gov.au/content/uploads/Seawater-Study-Port-Clinton-Adaptation-Options.pdf>

The flood study identified that portions of the Port Clinton townsite are currently vulnerable to seawater flooding and require flood protection to prevent inundation of properties, roads and other assets.

In 2018, a levee and seawall structure was built in the centre of Port Clinton, protecting this area from seawater flooding. The flood mapping also identified that properties in Clinton North townsite may be vulnerable to flooding at present (refer Figure 1), with the risk increasing with sea level rise.

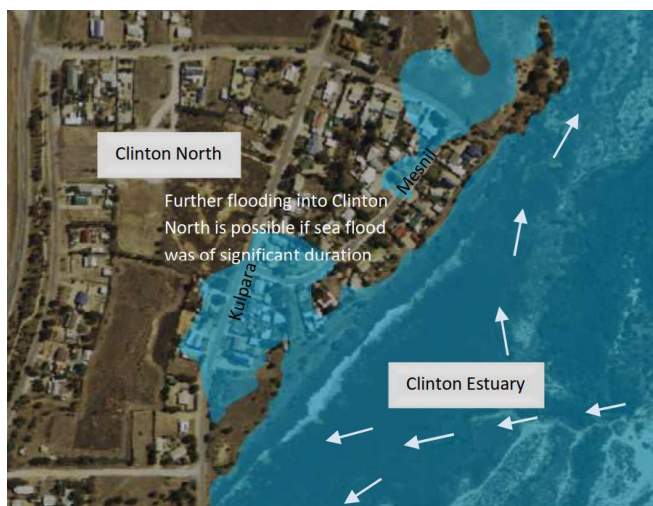


Figure 1 – Flood extent at +3.1 mAHd (from Stage 1: State of Play report)

What protection options are available?

In 2022/23 Council received Coastal Protection Board grant funding to develop protection options at Clinton North and 3 other townsites on the eastern Yorke Peninsula coastline. This study has used new survey data collected on site combined with updated water level information from the Department of Environment and Water (DEW) to develop protection concepts.

For Port Clinton, the proposed protection concept involves a series of levees and road raising to prevent seawater flooding. The proposed concept is presented in Figure 2 on the following page and consists of:

1. A 0.5m to 1.2m high levee running parallel to property boundaries on eastern side of Clinton North through to Kulpara St.
2. A 1.0 to 1.8m high levee running parallel to Yararoo Dr.
3. A 0.3m high raised portion of Kulpara St.

What are the potential impacts?

The impacts of the proposed structures are considered to be relatively minor and include:

- Visual impact of the levee. The levee will be capped with topsoil to promote the growth of grass to be walkable and appear less visible.
- Requirement for clearing of some vegetation on the coastal reserve lot between Clinton North and the estuary.
- Kulpara St will be raised slightly
- The property fence line and gate on Yararoo Rd will need to be re-positioned to the south along the property boundary.

When would these options be implemented?

Protection options are likely to be constructed in the short to medium -term, with Council working closely with the community on funding models, including potential co-funding arrangements.

What next?

Council will be holding a community information session on 11/08/2023 at 2.00pm at the Port Clinton Community Hall to discuss the concepts. Interested community members are encouraged to attend and provide any feedback.

Approvals and detailed design of the proposed seawall will develop once community and key stakeholder feedback has been received.

Want further information?

If you require further information on the project, please contact Council at:

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Figure 2 – Levee concept plan

