

Partners responding to coastal erosion at Inverloch Surf Beach

Derek Hibbert
Coordinator Coast and Bushland Management
Bass Coast Shire Council



Acknowledgements



















Inverloch's dynamic coast





Inverloch and Anderson Inlet, November 2009

Inverloch and Anderson Inlet, December 2018

Inverloch's dynamic coast





Surf Lifesaving Club, January 2012

Surf Lifesaving Club December 2018

Inverloch's dynamic coast: Inverloch Surf Lifesaving Club: First Observation Building





October 2013



October 2013

Inverloch's dynamic coast: Inverloch Surf Lifesaving Club: Second Observation Building





10 December 2014



October 2016

Who'll save our tower?

Prom page 1

And according to the Presimit of the Invertoch SESC,
lean Hughes. It could cost
45,000 to 850,000 to trame
to building out and to remove
the deeply contrated pylons.
"That's, where they told us to
tot it?" said Mrs Hughes this
week."

Certainly, the waves are conmuting to crash in on the sandage send breakwater devices restoring the foundations of the troubled tower.

predicting the foundations of the troubled tower. While the troubled tower. While the tower tieself stands firm, the waves have cut deeply into the surrounding duties, expossing power and communications withing those the basels to the cripped structure. Some properties of the contraction of the con

of whom will soon descend on Invertoch's famed surf beach.

"The surf lifescenting club energia a tower to allow the partrollers to effectively look up it and down the beach," Mrs. 8 Hughes said.

"Nincy per cent of our res-

Saincy per cent of our rescuest inspire cutofide the flags. Mrs Highes said the club accepts that the tower needs to be moved, however as building reports sought by invertich SLSC confirm that the tower is currently stable and because time is so short, the club would like to keep I ii in place for the summer season. Arrangements also need to be Arrangements also need to be

Arrangements also need to made in provide access to beach and to the tower. "It's simply too late to moving the tower at this aim she said. And after reaching an

asse with the shire, they alled on Surf Lifesaving Vi oris, local MP Brian Payate ensitor Bridget McKenzie who an active member of the

Waves at high tide are continuing to crash down on the Inverloch SLSC's patrol tower, undercutting foundations and the main access to the beach. There's also talk of the need for

Emergency Services, James Merlino, to intervene.

The group is continuing to engage with the shire but they rebused to put out a media release, prepared for them by the

littinky dory.

It clearly is not.

After the Sentinel-Times contacted the shire, at 3.30pm yesterday, the shire published the

ferrow, the stirre published the following media statement on its website:

"The lawerloch Surf Life Sawing Observation Tower will be removed due to significant

e ing Observation Tower wid be removed due to significar e crossion causing the structure to become unsafe and inacces sible.

After several site inspection and discussions with the le

After several site inspections and discussions with the Invertoch Surf Life Saving Club, the Department of Environment, Land Wester and Planning (DELWP) and Brass Coast Sibre Council have deemed the observation tower to be a risk to public safety, having been subject to major wire crossion for the past 12 months.

viable option, as the structure integrity of the building weed be compromised if it were to remain long term.

"The tower was designed to be removed should this situs

be removed should this situation occur, and both Council and DELWP will assist the Surf Life Saving Club to remove the tower.

Council and DELWP have also spoken with Surf Lifesaving Victoria regarding the removal of the structure and service over the summer period. "The shire mat with the club

whee over the summer period. "The shire mit with the club two works go to discuss the Observation Tower and explained to the club that days to the caretaker period before the election. It was restricted in the communication it could understake on the swear. Council prepared the short media refease and provided it to the club at its request."

The club wants the tower is tay until after the summer, the hire wants it to go.

Inverloch's dynamic coast: Inverloch Surf Lifesaving Club: Second Observation Building











Inverloch's dynamic coast: Inverloch Surf Lifesaving Club: Second Observation Building









Inverloch's dynamic coast:

Main beach access track





27 July 2016

Inverloch's dynamic coast





Surf Lifesaving Club, January 2012

Surf Lifesaving Club December 2018

Inverloch's dynamic coast





Cape Paterson-Inverloch Road site 2012



Cape Paterson-Inverloch Road site 2018









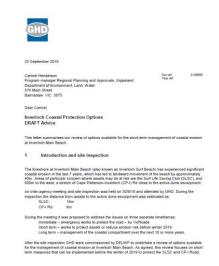
















HOW GREEN OR GRAY SHOULD YOUR SHORELINE SOLUTION BE?

GREEN - SOFTER TECHNIQUES

GRAY - HARDER TECHNIQUES

Living Shorelines



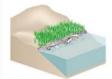
VEGETATION ONLY -Provides a buffer

to upland areas and breaks small waves. Suitable for low wave energy environments.



EDGING -

Added structure holds the toe of existing or vegetated slope in place. Suitable for most areas except high wave energy environments.

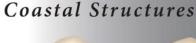


SILLS -

Parallel to vegetated shoreline, reduces wave energy, and prevents erosion. Suitable for most areas except high wave energy environments.

BREAKWATER-

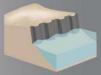
(vegetation optional) - Offshore structures intended and protects it to break waves, reducing the force of wave action, and encourage sediment hardened shoreline settings and sites accretion. Suitable for most areas.





REVETMENT -

Lays over the slope of the shoreline from erosion and waves. Suitable for sites with existing structures.



BULKHEAD -

Vertical wall parallel to the shoreline intended to hold soil in place. Suitable for high energy with existing hard shoreline structures.

Source: https://climateactiontool.org/content/restore-and-protect-natural-shorelines-use-living-shoreline-techniques



Chosen Technique Combination

- Wet-sand fencing
- Sand renourishment
- Revegetation with indigenous plant species



Asset protection at Inverloch Surf Beach: Wet-sand fencing at Port Fairy











Asset protection at Inverloch Surf Beach: Stakeholder Engagement





Asset protection at Inverloch Surf Beach: Wet-sand Fence Installation











Asset protection at Inverloch Surf Beach: Wet-sand Fences







Asset protection at Inverloch Surf Beach: Monitoring





Asset protection at Inverloch Surf Beach: Performance







Asset protection at Inverloch Surf Beach: Performance





Asset protection at Inverloch Surf Beach Challenges and lessons learned





Asset protection at Inverloch Surf Beach: Challenges and lessons learned









Responding to coastal erosion at Next Steps



Next Steps:Works

- Sand Renourishment
- Revegetation with indigenous plant species

Next Steps: Medium to Longer-term

 Strategic planning for medium and longer-term scenarios at Inverloch



Partners responding to coastal erosion at Inverloch Surf Beach







"THANK YOU!"













