

Kairakau

Setting

Kairakau is the northern most beach of the Central Hawke's Bay District. It comprises residential and camp ground area is formed on an alluvial delta of Mangakuri River. The shoreline is potentially affected by both river processes as well as coastal processes, including headland retreat.



Erosion at this location is a regular feature, with the first recorded erosion event occurring in 1932. Coastal protection structures extend along the majority of shoreline backed by reserve and motor camp facilities. The beach currently is in an eroded state with significant damage occurring to some of the existing coastal protection works, although erosion is likely to be episodic.

Hazard Description		Potential Risk		
CERZ	43.0 m	Likelihood	Consequence	Risk
ERZ 2060	16 m	Unlikely	Catastrophic	Extreme
ERZ 2100	16 m	Possible	Major	Extreme
Total Erosion Zone width	75 m	Likely	Major	Extreme
Sea Inundation level (CERZ)	16.3 m	Certain	Moderate	Extreme
Sea Inundation level landward of CERZ	14.0 m			

Uncertainties

Inferred trends due to no local data

Uncertainties over future climate change impacts

Recommendations

- No new council infrastructure or new private development to be located within the CERZ
- Consider relocation of camp ground (managed retreat) and removal or replacement of failing coastal protection structures
- All new private development within Erosion Hazard Zone to be relocatable and above inundation levels.
- No further modification of land designation permitted in currently non-residential zoned land within hazard zones
- Monitor shoreline change



Notes: 1. Coastal property boundaries supplied by HBRC (DCDB)
 2. Aerial photos\Topomaps sourced from Land Information New Zealand Data, Crown Copyright Reserved

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Tonkin & Taylor
 Environmental & Engineering Consultants

Hamilton Auckland Christchurch
 Nelson Wellington Whangarei

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APPROVED		
CADFILE :		
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SCALES (AT A4 SIZE)		
1: 10 000		
PROJECT No.	205 14	

HAWKES BAY REGIONAL COUNCIL
 REGIONAL COASTAL HAZARD ASSESSMENT
 HAZARD ZONE DEFINITIONS
 Kairakau