



HAWKES BAY REGIONAL COUNCIL  
COASTAL HAZARD ASSESSMENT:  
VOLUME II  
SUMMARIES FOR LOCAL COMMUNITIES

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### **Summary tables for coastal settlements**

### **Summary figures showing erosion hazard zones for coastal settlements**



## 1.0 Introduction

This Volume includes summaries of the coastal hazard zones for each coastal community. A detailed description of the overall hazard zone methodology is contained in Volume I.

For each settlement we include; a brief description of the setting; a summary of the identified hazard and extent of the hazard; an assessment of risk; identification of areas of uncertainty and recommendations based on the draft policy included in Section 8.4 of the main report (Volume I). Accompanying each summary table is a figure showing the erosion hazard zones for the particular area.

## 2.0 Description of Risk Assessment

The identification of the potential risk summarised in table form in the summary tables is based on the recommended approach is the soon to be completed Coastal Hazards Guidance Note from Ministry of the Environment (2003). This approach assesses the potential hazard based on both the likelihood of the potential hazard and the consequences, or effects of the hazard occurring. Only one table is provided, it can be used for both inundation and erosion.

### 2.1 Likelihood

The likelihood of the potential hazard was based on the following definitions:

Likelihood	Description
Certain	Is expected to happen <u>many</u> times during the period of concern, resulting in either erosion of the seaward half of the CERZ or reach inundation levels excluding SLR and run-up.
Likely	Will probably happen <u>several</u> times during the 100 year timeframe resulting in erosion to the landward boundary of the CERZ or reach inundation levels including SLR to 2100.
Possible	<u>Might occur</u> some time during the period of concern resulting in erosion to the landward boundary of ERZ2060 or reach

inundation levels including run-up.

Unlikely	<u>Unlikely</u> to occur but possible, resulting in erosion to the landward boundary of ERZ2100 or reach inundation levels including SLR and run-up.
Rare	<u>Highly unlikely</u> within 100 year timeframe, but conceivable. Erosion beyond current ERZ and inundation higher than present predictions.

## 2.2 Consequences

The consequences were also rated based on the scaling approach outlined in the guidance note:

<b>Impact</b>	<b>Examples</b>
Catastrophic	Huge financial losses involving many people and/or corporations and/or local government; large long-term loss of services; permanent loss of many people's homes; large-scale loss of employment.
Major	Major financial losses for many individuals and/or a few corporations; some long-term impacts on services; some homes permanently lost; complete loss of an important natural environment.
Moderate	High financial losses, probably for multiple owners; disruption of services for several days; people displaced from their homes for several weeks; major impacts on valued natural environment.
Minor	Moderate financial losses for small number of owners; disruption of services for a day or two; moderate distress to some individuals; some impacts on significant natural environment.
Insignificant	Minimal financial losses; short-term inconvenience.

## 2.3 Risk

Risk evaluation was based on the assessment of the likelihood of a hazard occurring and the potential consequences using the following risk evaluation definitions, again based on the guidance note:

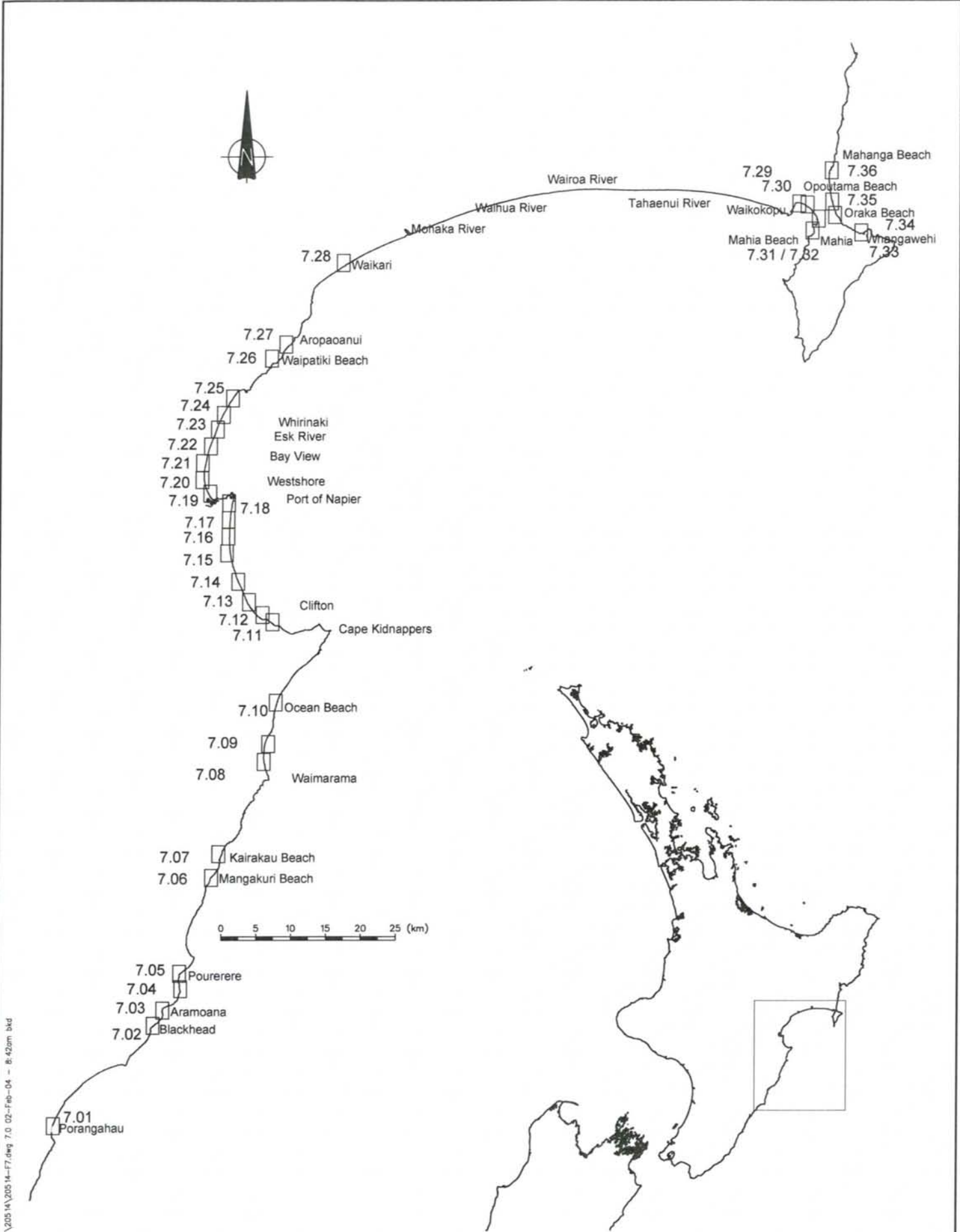
Likelihood	Consequence				
	Catastrophic	Major	Moderate	Minor	Insignificant
Frequent / certain	E	E	E	H	M
Likely	E	E	H	H	M
Possible	E	E	H	M	L
Unlikely	E	H	M	L	L
Rare	H	H	M	L	None

Where:

- E: Extreme risk; immediate action required.
- H: High risk; high priority for action, begin planning as soon as practicable.
- M: Moderate risk; include in response planning, but lower priority.
- L: low risk; minimal action likely to be required; monitor the situation.
- None: Negligible risk; no response required.

## 3.0 Recommendations

Each summary table contains recommendations relevant for each area based on the policy set out in Section 8.4.



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REGIONAL COASTAL HAZARD ASSESSMENT  
HAZARD ZONE DEFINITIONS  
Figure Reference Plan