Haumoana

Unit K

Coastal Erosion - Possible

Present day | Year 2065 | Year 2120

Assessment of coastal erosion risk in Haumoana

Coastal Inundation - Possible

Present day | Year 2065 | Year 2120

Assessment of coastal inundation risk in Haumoana
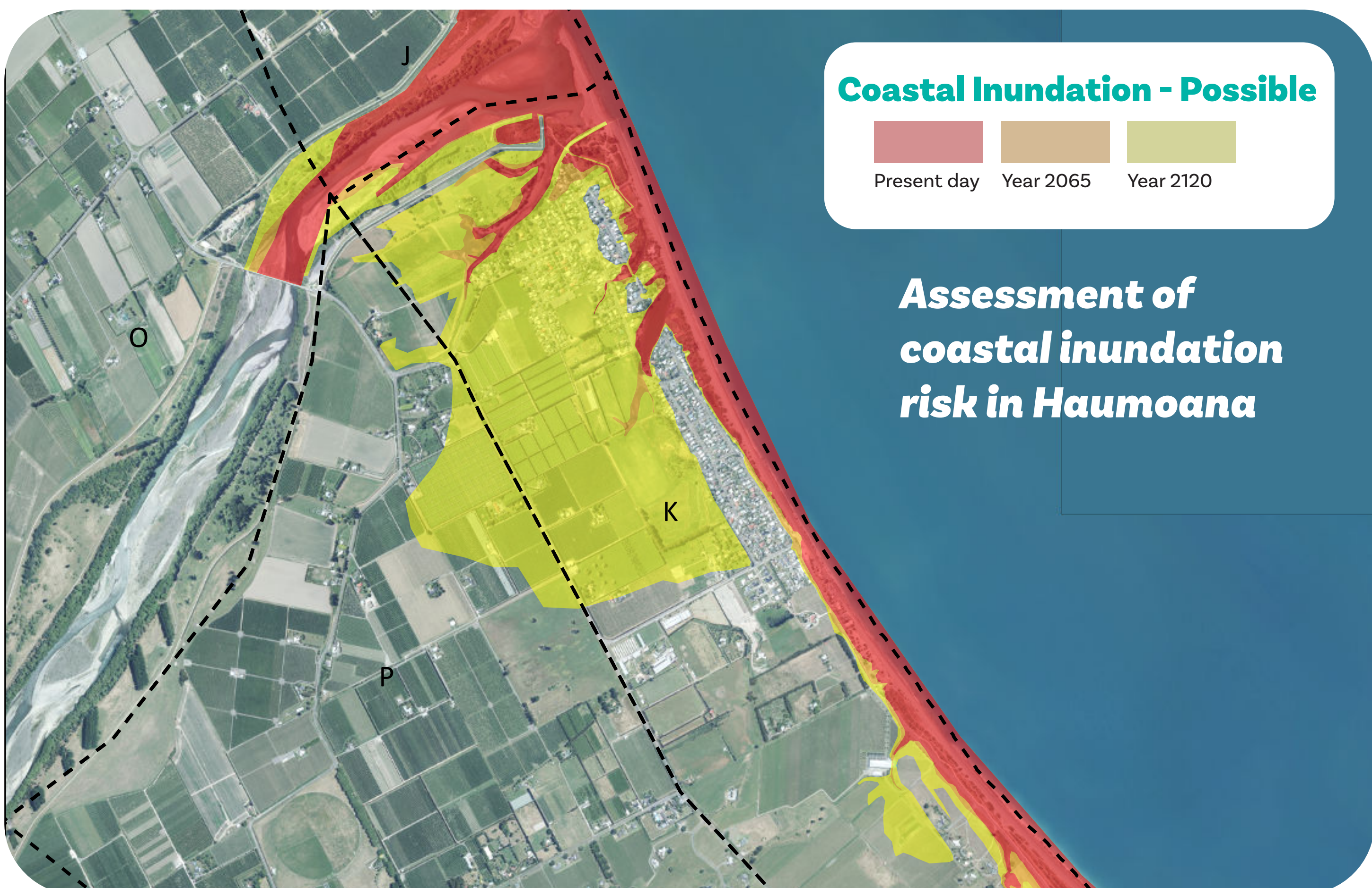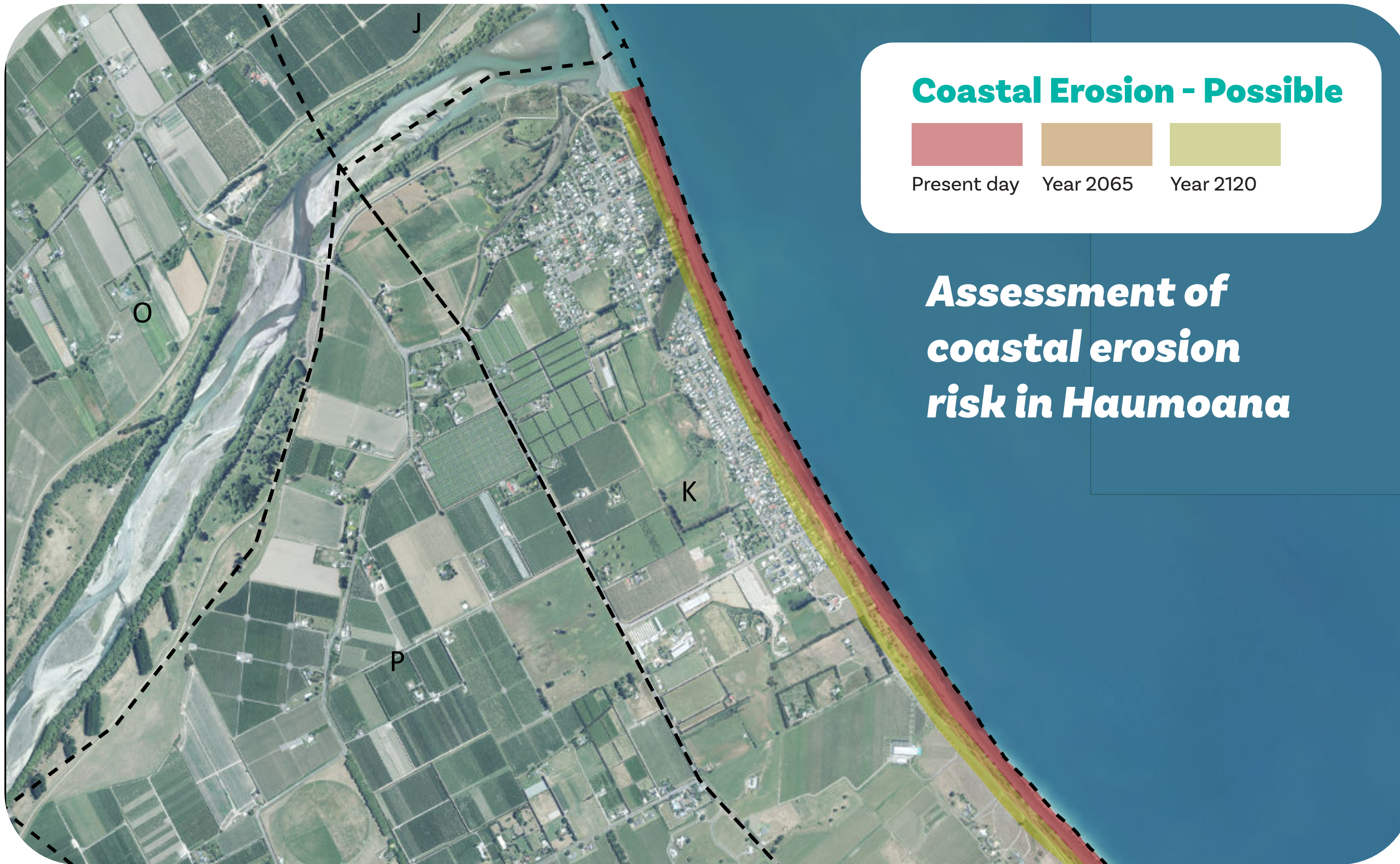
Current situation

- **Haumoana is already at risk from coastal erosion & inundation.**
- **These risks will increase over time.**

Considerations for Haumoana

- Domain/Grange Road is at risk now from inundation /flooding.
- Vehicle access to, through and behind the beach crest needs to be managed.
- Vehicles turning around at the groyne end of the beach are causing erosion.
- Hastings District Council's Reserve Management Plan includes works to maintain/enhance the beach crest and manage vehicle access.
- Cape View Corner now has a revetment (rocks) in place to protect the road /infrastructure.

Thresholds

Haumoana Proposed Thresholds
ADAPTATION THRESHOLD
Coastal inundation causing the loss of one or more essential services affecting the majority of the community. **How long:** At least 48 hours. **How often:** More often than once every 5 years.
Community-wide coastal inundation causing damage to multiple buildings/service. **How long:** Any duration. **How often:** More often than once every 5 years.
Any serious injuries and/or fatalities that occur as a result of a coastal erosion or coastal inundation event.
Civil Defence emergency is declared in response to coastal inundation or coastal erosion. **How often:** More often than once every 10 years.
50% of an affected coastal community consider that a permanent loss of amenity has occurred as a result of coastal erosion or coastal inundation impacts
50% of the community report actual or perceived property purgatory effects i.e. actual or foreseeable damage to their properties from coastal erosion or coastal inundation and uncertainty about being able to recover their losses
50% of properties are unable to secure building insurance for losses from coastal hazards.
Access to and use of the beach, coastal reserves and/or recreational facilities is prevented as a result of coastal inundation. **How long:** At least 7 days. **How often:** More often than once every 5 years.
Coastal inundation in Haumoana affecting Haumoana and/or Beach Road causing loss of road access for the majority of the community. **How long:** At least 48 hours. **How often:** More often than once every 5 years.
Buildings in Haumoana are deemed uninhabitable as a result of coastal hazards (e.g. loss of septic tanks, building structural integrity etc).

Pathways

The pathways assessed for each unit were confirmed following an extensive options development/ assessment process and used the principles of Dynamic Adaptive Planning Pathways ("DAPP").

The preferred pathway was selected by Community Panel members following assessment of criteria including how effective the option is at managing hazards and risks and the impact of the option on cultural, social and economic considerations and its impact on the natural environment.

The pathways for Haumoana include:

- Additional beach renourishment may be required in the medium term
- Raising of stopbanks may also be necessary to address inundations risks, including the option of installing a flood gate.
- In the long term, a planned managed retreat of all properties at unacceptable risk

Rationale behind recommendation:

- Highest scoring pathway under Multi-Criteria Decision Analysis ("MCDA") undertaken by the Panel.
- Scored favourably under economic analysis undertaken by an independent economist.
- Retains flexibility and ability to adapt when triggers are reached.
- The vote in favour of Pathway 2: 10 members in favour (full support).

HAUMOANA - PREFERRED PATHWAY

Short Term (0-20 years)	→	Medium (20-50 years)	→	Long term (50-100 years)
Renourishment + Groynes	→	Renourishment + Groynes	→	Managed Retreat

Long term

Legend

Gravel renourishment + control structures

Managed retreat