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**ORDINARY MEETING**

**OF**

**MAKARA/OHARIU COMMUNITY BOARD**

**MINUTE ITEM ATTACHMENTS**

Time: 7:00pm  
Date: Thursday, 29 November 2018  
Venue: Makara Community Hall  
366 Makara Road  
101 Wakefield Street  
Wellington

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**Business**

**Page No.**

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**2 Oral Reports**

- 2.1 Community-Led Climate Adaptation Plan
- 2.3 2018 November 29 – MOCB Chairperson's Report

## 2.1 Community-Led Climate Adaption Plan

### Makara Beach Project



Criteria	Description	Scoring Guide
Manages the risks of inundation	<ul style="list-style-type: none"> <li>› Reduced exposure to risks from inundation</li> <li>› Meets objectives over long timeframes</li> <li>› Proportionate to the scale and nature of risk</li> </ul>	5 – High / Good 4 – 3 – Mid 2 – 1 – Low / Bad
Manages the risks of erosion	<ul style="list-style-type: none"> <li>› Reduced exposure to risks from erosion</li> <li>› Meets objectives over long timeframes</li> <li>› Proportionate to the scale and nature of risk</li> </ul>	5 – High / Good 4 – 3 – Mid 2 – 1 – Low / Bad
Ability to adapt to increasing risks	<ul style="list-style-type: none"> <li>› Readily responds to uncertain climate outcomes</li> <li>› Includes measures to support future adjustments</li> </ul>	5 – High / Good 4 – 3 – Mid 2 – 1 – Low / Bad
Risk transfer	<ul style="list-style-type: none"> <li>› Exacerbation of hazard risk in other areas</li> <li>› The transfer of risk to others, including future generations</li> </ul>	5 – Low / Good 4 – 3 – Mid 2 – 1 – High / Bad
Socio-economic Impacts Makara Community	<ul style="list-style-type: none"> <li>› Social effects e.g.                             <ul style="list-style-type: none"> <li>› Effects on community safety</li> <li>› Loss of amenity value</li> <li>› Decline in recreational values</li> </ul> </li> </ul>	5 – Low / Good 4 – 3 – Mid 2 – 1 – High / Bad
Socio-economic Impacts Greater Wellington Community	<ul style="list-style-type: none"> <li>› Social effects e.g.                             <ul style="list-style-type: none"> <li>› Loss of amenity value</li> <li>› Decline in recreational values</li> </ul> </li> <li>› Indirect economic / industry impacts (e.g. tourism, fishing)</li> </ul>	5 – Low / Good 4 – 3 – Mid 2 – 1 – High / Bad
Relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga	<ul style="list-style-type: none"> <li>› Impacts on any cultural sites of significance</li> <li>› Maintains access to, and enables the carrying out of, customary activities</li> </ul>	5 – Low / Good 4 – 3 – Mid 2 – 1 – High / Bad
Natural Environments Impacts	<ul style="list-style-type: none"> <li>› Impacts on natural ecosystems</li> <li>› Impacts on the natural character of the coastal environment</li> </ul>	5 – Low / Good 4 – 3 – Mid 2 – 1 – High / Bad

## Makara Beach Project



How we've ranked our values. 1 = Important 2 = Very Important 3 = Critical

What's Important	How Important is it (1-3)	Reasons
Manages the risks of inundation	3	<ul style="list-style-type: none"> <li>The absence of inundation makes the community liveable and this factor is mission critical for meeting the objective.</li> <li>Inundation is the most immediate risk for the Makara Beach Community from climate change</li> </ul>
Manages the risks of erosion	3	<ul style="list-style-type: none"> <li>Failing to manage the risk of erosion will result in the degradation of the walkway – high value recreational asset</li> <li>Loss of amenity and key reason for visitors</li> <li>Inhibit fishing accessibility</li> <li>Exacerbate risk of inundation (e.g. erode defences)</li> </ul>
Ability to adapt to increasing risks	2	<ul style="list-style-type: none"> <li>While important, the ability to alter chosen adaptation actions is not as important as protecting the community from negative impacts</li> </ul>
Risk transfer	2	<ul style="list-style-type: none"> <li>Nobody should be worse off than maintaining status quo</li> <li>Base level of risk transfer minimisation exists through legislation</li> </ul>
Socio-economic Impacts Makara Community	3	<ul style="list-style-type: none"> <li>Protection of the Makara Beach Community is mission critical for meeting our objective</li> <li>People – reflects the essence of how our community works together in tough times, and socialises together in good times</li> <li>Avoiding negative impacts on property values</li> </ul>
Socio-economic Impacts Greater Wellington Community	2	<ul style="list-style-type: none"> <li>Key recreation location and destination for Karori and greater Wellington residents – families and other users e.g. walkers/fishers/divers</li> <li>Unique character – Makara Beach only north-facing beach in Wellington; affords South Island and windfarm views</li> <li>Tourism location e.g. campervans</li> </ul>
Relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga	2	<ul style="list-style-type: none"> <li>Preserving historical values/history/respect for past</li> <li>Protecting environmental values will flow on to a level of respect for cultural values</li> <li>Access to Kai and Kai Moana e.g. tuna, whitebait, paua, watercress</li> </ul>
Natural Environments Impacts	3	<ul style="list-style-type: none"> <li>Protect flora/fauna e.g. shag colony, fish spawning, whitebait, native plants</li> <li>Significant wetlands for Wellington city</li> <li>Essence of natural setting – key reason for desirable living location</li> <li>Natural environment education opportunities</li> </ul>

**Makara Beach MCDA Pathway Results \_ Final**

Management Unit	Pathway Number	Short Term	Medium Term	Long Term	Score	Ranking
Makara Beach	One	Beach Recycling / Flood Management	Inundation Accommodation/ Managed Retreat	Managed Retreat	44	6
Makara Beach	Two	Beach Renourishment	Beach Renourishment	Managed Retreat	73	2
Makara Beach	Three	Beach Renourishment	Beach Renourishment	Sea Wall	81	1
Makara Beach	Four	Earth Bund / Stop Bank	Earth Bund / Stop Bank	Managed Retreat	57	4
Makara Beach	Five	Sea Wall	Sea Wall	Managed Retreat	45	5
Makara Beach	Six	Sea Wall	Sea Wall	Sea Wall	58	3
Makara Beach	Seven	Rock Revetment	Rock Revetment	Managed Retreat	36	7
Makara Stream Lower Estuary	One	Status Quo / Mouth Maintenance	Status Quo / Mouth Maintenance	Managed Retreat	53	6
Makara Stream Lower Estuary	Two	Rock Groyne	Rock Groyne	Managed Retreat	62	4
Makara Stream Lower Estuary	Three	Status Quo / Mouth Maintenance	River Bank Reinforcement + wall	Managed Retreat	59	5
Makara Stream Lower Estuary	Four	Status Quo / Mouth Maintenance	River Bank Reinforcement + wall	River Bank Reinforcement + wall	71	1
Makara Stream Lower Estuary	Five	Rock Groyne	Rock Groyne	River Bank Reinforcement + wall	67	2
Makara Stream Lower Estuary	Six	Status Quo / Mouth Maintenance	Raise Ground Levels + River Bank reinforcement	Raise Ground Levels + River Bank Reinforcement	64	3
Makara Walkway	One	Status Quo	Low Tide Access Only	Low Tide Access Only	40	4
Makara Walkway	Two	Status Quo + Alternative Route	Alternative Route + Low Tide Access Only	Alternative Route + Low Tide Access Only	82	1
Makara Walkway	Three	Rock Revetment	Rock Revetment	Managed Retreat	52	3
Makara Walkway	Four	Rock Revetment	Rock Revetment	Rock Revetment	60	2

## MAKARA BEACH CLIMATE CHANGE ADAPTATION STRATEGY

Management Unit: Makara Beach

Pathway Three

Short term

Medium term

Long term

### BEACH RENOURISHMENT <sup>3,4,13</sup>

Raising of beach crest level and improved flood water management/drainage



### BEACH RENOURISHMENT <sup>3,4,13</sup>

Increase in beach crest height/width in response to sea level rise



### SEA WALL <sup>10</sup>

In response to storm events and increasing risks construction of a sea wall provides an increased standard of protection.



#### NOTES:

Gravel renourishment imported and used to increase the height and width of the beach crest providing increased protection in storm events. Additional replenishments and beach maintenance conducted as required.

In the medium term risks increase with sea level rise and the size of the beach crest will need to be increased in order to maintain the same standard of protection.

Sea level rise over the longer term would require an ever increasing supply of gravel with increasing residual risks in the event of failure. In response to this a sea wall would be constructed, reducing the requirement for nourishment and providing a better standard of protection.

## MAKARA BEACH CLIMATE CHANGE ADAPTATION STRATEGY

Management Unit: Makara Stream Lower Estuary

Pathway Four

Short term

Medium term

Long term

### STATUS QUO/ MOUTH MAINTENANCE <sup>1,3</sup>

Removal of gravel at river mouth  
and placement on crest of main  
beach



### RIVER BANK REINFORCEMENT + WALL <sup>10,14</sup>

Construction of impermeable  
structure to protect against  
inundation and erosion



### RIVER BANK REINFORCEMENT + WALL <sup>10,14</sup>

Maintained and upgraded as  
required



### NOTES:

Gravel at mouth of river removed on a regular basis, and prior to storms, and placed on crest of adjacent beach. Results in improved rate of flow and reduction in flood levels during flood events.

In the medium term construction of a wall and river bank reinforcement to prevent direct inundation from the river during large flood events. This may also require storm water management and pumping of water that accumulates on the landward side of the wall as a result of rainfall.

Boat ramp to be built in to design.

River wall maintained and upgraded as required in response to sea level rise, climate change and increasing risk.

## MAKARA BEACH CLIMATE CHANGE ADAPTATION STRATEGY



**STATUS QUO<sup>1</sup> +  
ALTERNATIVE ROUTE**  
Minor maintenance where appropriate



**ALTERNATIVE ROUTE +  
LOW TIDE ACCESS ONLY**



**ALTERNATIVE ROUTE +  
LOW TIDE ACCESS ONLY**



### NOTES:

In the short term minor maintenance to the track where appropriate.

Continued erosion of the cliff toe will result in the track becoming unusable, at this point access will only be possible along the beach at low tide or in calm conditions.

In response to the loss of the walkway an alternative overland track could be created originating at Makara Beach and joining the existing walkway further along the coast. This would provide access when the beach route is not available due to high tide and/or stormy conditions.

Would require landowner consent.

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### **2.3 2018 November 29 – Makara Ohariu Community Board - Chairperson's Report**

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1. Planning for Growth – Sent to Board for comments.
2. Assisting Makara School to facilitate move of former Makara School down to current school site – shift now moved to Easter School Holidays due mainly to Brittens Movers being unavailable. Meetings with WCC, School to finalise decision to move building. Funding for the move now confirmed by School. Funding assistance also coming from WCC to complete archaeological report and requirements from Historic Places Trust.
3. Email received from Newlands Coach Service regarding Ohariu Valley Rural School Bus Service – discuss at meeting.
4. Major outage of Power Monday 26 November 4.30 pm-11.00 pm.
5. Meetings with WCC, Makara Beach Group, DoC, GRWC, and others regarding Cyclone Gita February 2018 now concluded. Report to follow on decisions made, and when some of the repairs can be done. Details to be forwarded to community once received. Concern regarding when this can occur, as beach residents made comment that “they are still in the same position now as they were after the damage done” Request to Council to do some work as soon as possible.
6. Major trapping programme started to rid SW Wellington of mustelids – Predator Free 2050 programme. Traps are visible on tracks at Meridian Westwind farm. Makaracarpas group also starting their own local group to take responsibility. From an email, we have received many responses from residents in Makara (and Ohariu?) who wish to get involved in this. Kinnoul, Terawhiti and Long Gully station owners also involved.
7. Request from local resident at beach to have picnic tables, plus some children's play equipment put at the Estuary to assist with better use of lawn area there and help with reduction of cars at beach by perhaps putting some additional car parking there. Who is person to contact regarding this? What is view of Board?