

MCDA CRITERIA – COMMUNITY SOCIAL AND ECONOMIC WELLBEING VALUES

Management Unit	Pathway	Pathway Description			Community Social and Economic Wellbeing values	
		Short term	Medium term	Long term	Score	Notes
Waikanae Unit 5A	1	Enhance - Dune and/or wetland resilience, community education and emergency management	Soft Engineering - Dune reconstruction	Soft Engineering - Beach renourishment		<ul style="list-style-type: none"> Increasing dune resilience over short term aligns with stated community values. If community is actively included in implementation, it could promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Over medium-long term, the community may need further information on dune reconstruction option (e.g. evidence of suitability, effectiveness, costs & engagement) before supporting. In the long term, the ongoing beach monitoring required to assess the ongoing success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	2	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Dune reconstruction	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Beach renourishment	Protect - Hard Engineering - Sea wall		<ul style="list-style-type: none"> Over the short and medium term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience/enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. In medium-long term, the community may require further information on effectiveness, costs and suitability of the beach renourishment and long-term seawall options, prior to acceptance and/or implementation. The ongoing beach monitoring required to assess the success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (<i>based on own site-specific risk assessment</i>).
	3	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Dune reconstruction	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Beach renourishment	Protect - Hard Engineering - Detached Breakwater		<ul style="list-style-type: none"> Over the short and medium term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience/enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. The community may need further information re: beach renourishment and long term detached breakwater options (effectiveness, costs, etc) prior to supporting. The ongoing beach monitoring required to assess the success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Waikanae Unit 5A	4	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Dune reconstruction	Protect - Hard Engineering - Sea wall	Retreat		<ul style="list-style-type: none"> • Over the short term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience / enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. • In medium term, the community may require further information on the seawall option (e.g. effectiveness, costs, and suitability, etc), prior to acceptance and/or implementation. • In long term, the community may require assurance and further information on managed retreat • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	5	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Dune reconstruction	Protect - Hard Engineering - Detached Breakwater	Retreat		<ul style="list-style-type: none"> • The option to increase dune resilience over short term aligns with stated community values. If community is actively included in dune resilience / enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. • In medium term, the community may require further information on the detached breakwater option (e.g. effectiveness, costs, and suitability, etc), prior to acceptance and/or implementation. • In the long term, the community is more likely to support retreat if they are assured that suitable land is available to relocate to, are aware of any financial implications. Also, important to ensure that support is in place to promote social and economic wellbeing and enhance social cohesion & health outcomes. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	6	Enhance - Dune and/or wetland resilience, community education and emergency management AND Soft Engineering - Dune reconstruction	Retreat	Retreat		<ul style="list-style-type: none"> • The option to increase dune resilience over short term aligns with stated community values. If community is actively included in dune resilience / enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. • In medium-long term, the community is more likely to support retreat if they are assured that suitable land is available to relocate to & are aware of any financial implications. Also, important to ensure that support is in place to promote social and economic wellbeing and enhance social cohesion & health outcomes. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Waikanae Unit 5B

1	Status Quo AND Community Education and Emergency Management	Status Quo AND Community Education and Emergency Management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management		<ul style="list-style-type: none"> • In the short and medium term, maintaining existing dunes and current infrastructure aligns with community values. However, with 10% of Waikanae properties likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), a Status Quo approach may not be tolerated by the community - engagement on medium term status quo approach may be needed. • Ongoing education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to identify dwellings at risk from inundation and to undertake proactive efforts on dwellings to accommodate risks to health and safety. Likely to be made on a case-by-case basis. • In the long term, enhanced inundation protection may provide the community with some assurance. Improved dune and/or wetland resilience aligns with community values, with potential social and/or economic benefits. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
2	Status Quo AND Community Education and Emergency Management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection - e.g. stopbanks, Culverts and Pump stations		<ul style="list-style-type: none"> • In the short term, maintaining existing dunes and current infrastructure aligns with community values. However, with 10% of Waikanae properties likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), a Status Quo approach may not be tolerated by the community - engagement on medium term status quo approach may be needed. • Ongoing education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to identify dwellings at risk from inundation and to undertake proactive efforts on dwellings to accommodate risks to health and safety. Likely to be made on a case-by-case basis. • In the medium term, enhanced inundation protection may provide the community with some assurance. Improved dune and/or wetland resilience aligns with community values, with potential social and/or economic benefits. In the long term, additional hard protection may provide the community with further assurance during flood events. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
3	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure		<ul style="list-style-type: none"> • In the short -medium term, enhanced inundation protection aligns with community values. Inundation protection could provide the community with some assurance. Improving dune and/or wetland resilience aligns with community values, with potential social and/or economic benefits. • Ongoing community education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the long term Accommodate allows homeowners to plan for and choose effective flood mitigation measures relative to affordability & whether they have continued access to roading & critical infrastructure. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Waikanae Unit 5B	4	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure	Retreat		<ul style="list-style-type: none"> • In the short term, enhanced inundation protection aligns with community values. This option could provide the community with some assurance. Improving dune and/or wetland resilience aligns with community values, with potential social and/or economic benefits. • Ongoing community education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the medium term Accommodate allows homeowners to plan for and choose effective flood mitigation measures relative to affordability & whether they have continued access to roading & critical infrastructure. • In the long term affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure maintenance, etc). • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	5	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection - e.g. stopbanks, Culverts and Pump stations	Retreat		<ul style="list-style-type: none"> • In the short term, enhanced inundation protection & improving dune and/or wetland resilience aligns with community values and has potential social and/or economic benefits. This option could provide the community with some assurance. • Ongoing community education and increased awareness of risk will ensure emergency preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the medium term additional hard protection will provide further reassurance in the event of flood events and allow homeowners time to plan for and/or choose other effective avoidance measures. • In the long term affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure services, etc). • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Management Unit	Pathway	Pathway Description			Community Social and Economic Wellbeing values	
		Short term	Medium term	Long term	Score	Notes
Waikanae Estuary Unit 6A and B	1	Status Quo AND Community Education and Emergency Management	Enhance - Dune and/or wetland resilience, community education and emergency management	Enhance - Dune and/or wetland resilience, community education and emergency management		<ul style="list-style-type: none"> Continuing with status quo in the short term aligns with current community values. However, monitoring of flood events (e.g. frequency, social impact, etc) may be needed to align with changes to community tolerance levels. Ongoing community education could focus on ecosystem protection and the role of wetlands and estuaries, ecological benefits, etc. Education to increase awareness of risk to public safety will ensure emergency preparedness. E.g. particularly if road / footbridge access around the estuary is at risk, or poses a public safety hazard. In the med-long term, continued enhancement of dunes and wetland areas around the estuary, could support community wellbeing and connection to place. Emergency management efforts will need to continue to be bolstered over time to protect public safety, as flood and/or erosion risks increase.
	2	Status Quo AND Community Education and Emergency Management	Enhance - Dune and/or wetland resilience, community education and emergency management	Protect - Bank protection		<ul style="list-style-type: none"> Continuing with status quo in the short term aligns with current community values. However, monitoring of flood events (e.g. frequency, social impact, etc) may be needed to align with changes to community tolerance levels. Ongoing community education could focus on ecosystem protection and the role of wetlands and estuaries, ecological benefits, etc. Education to increase awareness of risk to public safety will ensure emergency preparedness. E.g. particularly if road / footbridge access around the estuary is at risk, or poses a public safety hazard. In the medium term, continued enhancement of dunes and wetland areas around the estuary area by the community, could support their wellbeing and provide connection to place. In the long term, Bank Protection at Waikanae estuary may not provide enough protection for Otaihanga properties (<i>i.e. up to 50% of properties likely be exposed to inundation under 1.25m RSLR, by 2130</i>).
	3	Enhance - Dune and/or wetland resilience, community education and emergency management	Enhance - Dune and/or wetland resilience, community education and emergency management	Protect - Bank protection		<ul style="list-style-type: none"> In the short -medium term, enhancement of dunes and wetland areas around the estuary area by the community could support their wellbeing and provide connection to place. Ongoing community education could focus on ecosystem protection and the role of wetlands and estuaries, ecological benefits, etc. Education to increase awareness of risk to public safety will ensure emergency preparedness. E.g. particularly if road / footbridge access around the estuary is at risk, or poses a public safety hazard. In the long term, bank protection at Waikanae estuary may not provide enough protection for Otaihanga properties (<i>i.e. up to 50% of properties likely be exposed to inundation under 1.25m RSLR, by 2130</i>).

Waikanae Estuary Unit 6A and B	4	Enhance - Dune and/or wetland resilience, community education and emergency management	Protect - Bank protection	Protect - Bank protection		<ul style="list-style-type: none"> • In the short -medium term, enhancement of dunes and wetland areas around the estuary area by the community could support their wellbeing and provide connection to place. • Ongoing community education could focus on ecosystem protection and the role of wetlands and estuaries, ecological benefits, etc. • Education to increase awareness of risk to public safety will ensure emergency preparedness. E.g. particularly if road / footbridge access around the estuary is at risk, or poses a public safety hazard. • In the med-long term, bank protection at Waikanae estuary may not provide enough protection for Otaihanga properties (<i>i.e. up to 50% of likely be exposed to inundation under 1.25m RSLR, by 2130</i>).
	5	Enhance - Dune and/or wetland resilience, community education and emergency management	Retreat - Retreat recreational infrastructure to make way for wetland migration	Retreat - Retreat recreational infrastructure to make way for wetland migration		<ul style="list-style-type: none"> • In the short term, enhancement of dunes and wetland areas around the estuary area by the community could support their wellbeing and provide connection to place. • Ongoing community education could focus on ecosystem protection and the role of wetlands and estuaries, ecological benefits, etc and role of retreat in restoration. • Education to increase awareness of risk to public safety will ensure emergency preparedness. E.g. particularly if road / footbridge access around the estuary is at risk, or poses a public safety hazard. • In the med-long term, retreat of recreational infrastructure at Waikanae estuary, may not necessarily signify a loss of a valuable public recreation asset, as there may be opportunities to relocate / redesign amenities to minimise impact and retain public access.

Management Unit	Pathway	Pathway Description			Community Social and Economic Wellbeing values	
		Short term	Medium term	Long term	Score	Notes
Otaihanga Unit 7B	1	Status Quo AND Community Education and Emergency Management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)		<ul style="list-style-type: none"> Short term: Continuing with status quo aligns with current community values. However, with 23% of Otaihanga properties likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), this approach may not be tolerated by the community. Monitoring of flood events (e.g. frequency, social impact, etc) & engagement may be needed to align with changes in community tolerance levels. Ongoing community education and increased risk awareness (of properties & infrastructure at risk) will ensure emergency preparedness. Efforts in this area to be increased over time. Landowners may need to be supported to respond to flood risk and take proactive accommodation measures to reduce risks to health and safety. Medium term: enhancing existing inundation protection could provide the community with assurance, along with continued community preparedness. Long term: additional hard protection at Otaihanga could protect the up to <i>50% of Otaihanga properties likely be exposed to inundation under 1.25m RSLR (by 2130)</i>. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	2	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure		<ul style="list-style-type: none"> In the short-medium term, enhanced inundation protection aligns with community values. Inundation protection could provide the community with some assurance, given that 30% of Otaihanga properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5). Ongoing community education and increased community awareness of risk will ensure emergency preparedness and to identify dwellings at risk. Long term: Accommodate allows time for homeowners to plan and choose effective flood mitigation measures. Also to consider affordability & gauge if access to roading & critical infrastructure can be continued. High risk to properties (<i>50% of Otaihanga properties are likely exposed to inundation with 1.25mm RSLR -~by 2130 at SSP8.5</i>). Landowners may need to be supported to know how to respond to flood risk and undertake proactive accommodation efforts to reduce risks to health and safety. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	3	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure	Retreat		<ul style="list-style-type: none"> In the short term, enhanced inundation protection aligns with community values. This option could provide the community with some assurance, given that 30% of Otaihanga properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5). Ongoing community education and increased awareness of dwellings at risk to ensure community preparedness. Landowners may need supported to know how to respond to flood risk and undertake proactive accommodation efforts to reduce risks to health and safety. Medium term: Accommodate allows homeowners to plan for and choose effective flood mitigation measures & consider affordability vs liveability (continued access to roading & critical infrastructure). Long term: affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure maintenance, etc). Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Otaihanga Unit 7B	4	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)	Enhance - Enhance new inundation protection, dune and/or wetland resilience, and c and community education and emergency management	Retreat		<ul style="list-style-type: none"> • In the short term, additional hard protection is not consistent with community values. However, given that 30% of Otaihanga properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), the option could be further tested with the local community. • Ongoing community education to increase awareness of properties and infrastructure at risk to ensure emergency preparedness. Also allows landowners to take proactive measures (accommodate/avoid) to reduce risks to health, safety, and dwellings. • Medium term: costs associated with new inundation protection measures may need to be understood for this option to gain support. • Long term: affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure maintenance, etc). • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	5	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)		<ul style="list-style-type: none"> • In the short term, enhanced inundation protection aligns with community values. This option could provide the community with some assurance, given that 30% of Otaihanga properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5). • Ongoing community education to increase awareness of properties and infrastructure at risk to ensure emergency preparedness. Also allows landowners to take further proactive measures (accommodate / avoid) to reduce risks to health, safety, and dwellings. • Med-long term: the community may need better understanding of long-term costs and effectiveness of Additional hard protection measures in order to support this option.

Management Unit	Pathway	Pathway Description			Community Social and Economic Wellbeing values	
		Short term	Medium term	Long term	Score	Notes
Paraparaumu Unit 8A	1	Enhance - Dune and/or wetland resilience, community education and emergency management	Protect - Soft Engineering - Dune Reconstruction	Protect - Soft Engineering - Beach Renourishment		<ul style="list-style-type: none"> Increasing dune resilience over short term aligns with stated community values. If community is actively included in implementation, it could promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Over medium-long term, the community may need further information on dune reconstruction option (e.g. evidence of suitability, effectiveness, costs & engagement) before supporting. In the long term, the ongoing beach monitoring required to assess the ongoing success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	2	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Dune reconstruction	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Beach Renourishment	Protect - Hard Engineering - Sea wall		<ul style="list-style-type: none"> Over the short and medium term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience/enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. In medium-long term, the community may require further information on effectiveness, costs and suitability of the beach renourishment and long-term seawall options, prior to acceptance and/or implementation. The ongoing beach monitoring required to assess the success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	3	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Dune reconstruction	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Beach Renourishment	Protect - Hard Engineering - Detached Breakwater		<ul style="list-style-type: none"> Over the short and medium term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience/enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. The community may need further information re: beach renourishment and long term detached breakwater options (effectiveness, costs, etc) prior to supporting. The ongoing beach monitoring required to assess the success of beach renourishment, could potentially be done at the local/community level, if they are given appropriate training and technology. Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Paraparaumu Unit 8A	4	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Dune reconstruction	Protect - Hard Engineering - Sea wall	Retreat		<ul style="list-style-type: none"> • Over the short term, increasing dune resilience aligns with stated community values. If community is actively included in dune resilience /enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health outcomes. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. • In medium term, the community may require further information on the seawall option (e.g. effectiveness, costs, and suitability, etc), prior to acceptance and/or implementation. • In long term, the community may require assurance and further information on managed retreat • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	5	Protect - Hard Engineering - Sea wall	Protect - Hard Engineering - Sea wall	Retreat		<ul style="list-style-type: none"> • In the short-medium term, a seawall at southern end of Paraparaumu beach could be acceptable to the community - it would involve informing the community of the pro and cons and associated costs over the lifetime of the seawall. • Properties in this area will have more assurance that they will continue to receive essential infrastructure services (But this relies on regular maintenance & has costs). • In the long term, the community is more likely to support retreat if they are assured that suitable land is available to relocate to, & they are aware of any financial implications. Also, important to ensure that support is in place for those affected, to promote social and economic wellbeing, and enhance social cohesion & health outcomes. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	6	Enhance - Dune and/or wetland resilience, community education and emergency management AND Protect - Soft Engineering - Dune reconstruction	Retreat	Retreat		<ul style="list-style-type: none"> • The option to increase dune resilience over short term aligns with stated community values. If community is actively included in dune resilience/enhancement activities, it will promote social and economic wellbeing, as well as enhance social cohesion & health. Community may need further information on dune reconstruction option (e.g. evidence of suitability and effectiveness, costs & engagement) before supporting. • In medium-long term, the community is more likely to support retreat if they are assured that suitable land is available to relocate to & are aware of any financial implications. Also, important to ensure that support is in place to promote social and economic wellbeing and enhance social cohesion & health outcomes. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Paraparaumu Unit 8B	1	Status Quo AND Community Education and Emergency Management	Status Quo AND Community Education and Emergency Management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management		<ul style="list-style-type: none"> • In the short and medium term, maintaining existing dunes and current infrastructure aligns with community values. However, with 207 (4% of Paraparaumu properties) likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), a Status Quo approach may not be tolerated by the community - engagement on medium term status quo approach may be needed. • Ongoing education and increased awareness of risk will ensure community preparedness. E.g. Landowners could be supported to identify dwellings at risk from inundation and to undertake proactive efforts on dwellings to accommodate risks to health and safety. Likely to be made on a case-by-case basis. • In the long term, enhanced inundation protection may provide the community with some assurance • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	2	Status Quo AND Community Education and Emergency Management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)		<ul style="list-style-type: none"> • In the short term, maintaining existing dunes and current infrastructure aligns with community values. However, with 10% of Waikanae properties likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5), a Status Quo approach may not be tolerated by the community - engagement on medium term status quo approach may be needed. • Ongoing education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to identify dwellings at risk from inundation and to undertake proactive efforts on dwellings to accommodate risks to health and safety. Likely to be made on a case-by-case basis. • In the medium term, enhanced inundation protection may provide the community with some assurance. In the long term, additional hard protection may provide the community with further assurance during flood events. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	3	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure		<ul style="list-style-type: none"> • In the short -medium term, enhanced inundation protection & dune maintenance aligns with community values. Inundation protection could provide the community with some assurance, given that 10% of Waikanae properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5). • Ongoing community education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the long term Accommodate allows homeowners to plan for and choose effective flood mitigation measures relative to affordability & whether they have continued access to roading & critical infrastructure. • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).

Paraparaumu Unit 8B	4	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Accommodate - Elevate floor levels of buildings and flood proofing buildings and infrastructure	Retreat		<p>In the short term, enhanced inundation protection & dune maintenance aligns with community values. This option could provide the community with some assurance, given that 10% of Waikanae properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5).</p> <ul style="list-style-type: none"> • Ongoing community education and increased awareness of risk will ensure community preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the medium term Accommodate allows homeowners to plan for and choose effective flood mitigation measures relative to affordability & whether they have continued access to roading & critical infrastructure. • In the long term affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure maintenance, etc). • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).
	5	Enhance - Enhance existing inundation protection, dune and/or wetland resilience, and community education and emergency management	Protect - Additional Hard Protection (e.g. stopbanks, culverts and pump stations)	Retreat		<ul style="list-style-type: none"> • In the short term, enhanced inundation protection & dune maintenance aligns with community values. This option could provide the community with some assurance, given that 10% of Waikanae properties are likely exposed to inundation with 0.2m RSLR (~by 2050 at SSP8.5). • Ongoing community education and increased awareness of risk will ensure emergency preparedness. E.g. Landowners may need to be supported to know how to respond to flood risk and to identify dwellings at risk and undertake proactive accommodation efforts to reduce risks to health and safety. • In the medium term additional hard protection will provide further reassurance in the event of flood events and allow homeowners time to plan for and/or choose other effective avoidance measures. • In the long term affected homeowners and Councils can plan for Retreat (e.g. relocatable homes, spatial planning, level of infrastructure services, etc). • Insurability of personal assets will be determined by insurance companies (based on own site-specific risk assessment).