Appendix 3: Recommended amendments to Policy CC.4, Policy CC.4A, Policy CC.14 and Policy CC.14A as part of Hearing Stream 5 Right of Reply

N.B This appendix shows recommended amendments to provisions that have been considered in Hearing Stream 3 as part of the Climate Resilience and Nature-based Solutions topic. Amendments recommended by the Hearing Stream 5 Reporting Officer in response to Minute 18 are indicated with a comment box. All other text remains unchanged from the Hearing Stream 3 Climate Resilience and Nature-based Solutions Officer Right of Reply.

Policy CC.4: Climate responsive ~~resilient~~ ~~development~~ ~~urban areas~~ – district ~~and regional~~ plans

District ~~and regional~~ plans shall include objectives, policies, rules and non-regulatory methods to ~~provide for climate-resilient urban areas by providing for actions and initiatives described in Policy CC.14 which support delivering the characteristics and qualities of well-functioning urban environments.~~ require development and infrastructure to be located, designed, and constructed in ways that provide for *climate change mitigation, climate change adaptation* and climate-resilience, prioritising the use of *nature-based solutions* and informed by mātauranga Māori~~.~~. This includes~~ing by~~, as appropriate to the scale and context of the activity:

(a) requiring provision of urban green space, particularly canopy trees, to reduce urban heat and reduce stormwater flowrates:

i. prioritising the use of appropriate indigenous species, and

ii. ~~working~~ contributing to~~wards~~ achieving a wider target of 10 percent tree canopy cover at a suburb-scale by 2030, and 30 percent cover by 2050,

~~(b) requiring application of *water sensitive urban design* principles, hydrological controls, and other methods to improve water quality, overall environmental quality, minimise flooding and maintain, to the extent practicable, natural stream flows,~~

(b~~c~~) requiring methods to increase water resilience, including harvesting of water at a domestic and/or community-scale for non-potable uses (for example by requiring rain tanks, rainwater reuse tanks, and setting targets for urban roof area rainwater collection),

(c~~d~~) requiring that significant adverse effects on the *climate change mitigation*, *climate change adaptation* and *climate-resilience* functions and values of an ecosystem shall be avoided, and other adverse effects on these functions and values shall be avoided, minimised, or remedied,

(d~~e~~) promoting efficient use of water and energy in buildings and infrastructure, and

(e~~f~~) promoting appropriate design of buildings and infrastructure so they are able to withstand the predicted future higher temperatures, intensity and duration of rainfall and wind over their anticipated life span.

Explanation

Commented [KP1]: Recommended as part of HS5 Officer Right of Reply

Policy CC.4 directs ~~regional and~~ district plans to include ~~relevant~~ provisions to provide for ~~climate-resilient~~ development and infrastructure to respond to the predicted effects of climate urban areas. The policy seeks that priority be given to the use of nature-based solutions, recognising the multiple-benefits they can provide for people and nature. It also seeks to manage any adverse effects of activities on the climate change functions and values of ecosystems.

~~For the purposes of this policy, climate-resilient urban areas mean urban environments that have the ability to withstand:~~

- ~~Increased temperatures and urban heat island~~
- ~~Increased intensity of rainfall and urban flooding and increased discharge of urban contaminants~~
- ~~Droughts and urban water scarcity and security~~
- ~~Increased intensity of wind, cold spells, landslides, fire, and air pollution~~

~~The policy is directly associated with Policy CC.14 which provides further direction on actions and initiatives to provide for climate resilient urban areas~~.

It is noted that other policies of this RPS also provide for actions and initiatives to deliver *climate-resilient* infrastructure and development ~~urban areas, including Policy FW.3.~~ This includes requirements to apply *water sensitive urban design principles* and *hydrological control* in *urban development* in Policy 14, Policy FW.3, and Policy FW.XX (Hydrological control in urban development).

Commented [KP2]: Recommended as part of HS5 Officer Right of Reply

Policy CC.4A: Climate-responsive ~~resilient~~ development – regional plans

Regional plans shall include objectives, policies, rules and non-regulatory methods to require development and infrastructure to be located, designed, and constructed in ways that provide for *climate change mitigation, climate change adaptation* and *climate-resilience*, prioritising the use of nature-based solutions and informed by mātauranga Māori~~.~~. This includes~~ing by~~, as appropriate to the scale and context of the activity:

~~(a) requiring the application of water-sensitive urban design principles and methods to improve water quality and overall environmental quality, including by requiring stormwater contaminants to be avoided or minimised in discharges to the stormwater network or to water,~~

~~(b) requiring stormwater flowrates and volumes to be managed to minimise flooding and to maintain, to the extent practicable, natural stream flow rates and volumes, and~~

Commented [KP3]: Recommended as part of HS5 Officer Right of Reply

(a~~e~~) requiring significant adverse effects on the climate change mitigation, climate change adaptation and climate-resilience functions and values of an ecosystem be avoided, and other adverse effects on these functions and values be avoided, minimised, or remedied.

Explanation

Policy CC.4A directs regional plans to include provisions to provide for *climate-resilient* development and infrastructure. The policy seeks that priority be given to the use of *nature-based solutions*, recognising the multiple-benefits they can provide for people and nature. It also seeks to manage any adverse effects of activities on the climate change functions and values of ecosystems.

It is noted that other policies of this RPS also provide for actions and initiatives to deliver *climate-resilient* infrastructure and development, including ~~Policy FW.14~~ requirements to apply *water sensitive urban design principles* and *hydrological control* in Policy 14, Policy FW.3 and Policy FW.XX.

Commented [KP4]: Recommended as part of HS5 Officer Right of Reply

Policy CC.14: Climate-responsive ~~resilient~~ development ~~urban areas~~ – district and city council consideration

When considering an application for a resource consent, notice of requirement, or a change, variation or review of a district ~~or regional~~ plan, require ~~seek~~ that development and infrastructure is located, designed and constructed in ways that provide for *climate change mitigation, climate change adaptation* and *climate-resilience*~~, provide for actions and initiatives, particularly prioritising~~ the use of *nature-based solutions* and informed by mātauranga Māori~~.~~ This includ~~esing by,~~ as appropriate to the scale and context of the activity:

(a) ~~maintaining, enhancing, restoring, and/or creating urban green space at a range of spatial scales to provide urban cooling, including,~~ providing urban green space, particularly canopy trees, to reduce urban heat and reduce stormwater flowrates:

i. prioritising the use of appropriate indigenous species, and

ii. contributing ~~working~~ to~~wards~~ achieving a wider target of 10 percent *tree canopy cover* at a suburb-scale by 2030, and 30 percent cover by 2050,

~~(b) the application of *water sensitive urban design* principles, hydrological controls, and other methods to integrate natural water systems into built form and landscapes,to reduce flooding, improve water quality and overall environmental quality, minimise flooding and maintain, to the extent practicable, natural stream flows,~~

Commented [KP5]: Recommended as part of HS5 Officer Right of Reply

(b~~e~~) methods to increase water resilience, including by requiring harvesting of water at a domestic and/or ~~capturing, storing, and recycling water at a~~ community-scale for non-potable uses (for example by requiring rain tanks, rainwater re-use tanks, and setting targets for urban roof area rainwater collection),

(c~~d~~) ~~protecting, enhancing, or restoring natural ecosystems to strengthen the resilience of communities to the impacts of natural hazards and the effects of climate change,~~ avoiding significant adverse effects on the climate change mitigation, climate change adaptation and climate-resilience functions and values of an ecosystem, and avoiding, minimising, or remedying other adverse effects on these functions and values,

(d~~e~~) ~~providing for~~ promoting efficient use of water and energy in buildings and infrastructure, and

(e~~f~~) promoting appropriate design of buildings and infrastructure ~~that~~ so they are able to withstand the predicted future higher temperatures, intensity and duration of rainfall and wind over their anticipated life span.

Explanation

Climate change, combined with population growth and housing intensification, is increasingly challenging the resilience and well-being of ~~urban~~ communities and natural ecosystems, with increasing

exposure to natural hazards, and increasing pressure on water supply, wastewater and stormwater infrastructure, and the health of natural ecosystems.

This policy identifies the key attributes required to ensure that development and infrastructure provides for ~~develop~~ climate-resilience ~~in urban areas~~ and requires district ~~and regional~~ councils to take all opportunities to provide for actions and initiatives, particularly nature-based solutions, that will prepare our ~~urban~~ communities for the changes to come. Managing stormwater runoff following intense rainfall events and contaminants from urban development also contributes to the achievement of Policy CC.14 and these matters are addressed through the requirements of Policies 40 and 42.

Commented [KP6]: Recommended as part of HS5 Officer Right of Reply

Policy CC.14A: Climate-responsive development – regional council consideration

When considering an application for a resource consent, or a change, variation, or review of a regional plan, require ~~seek~~ that development and infrastructure is located, designed, and constructed in ways that provide for *climate change mitigation, climate change adaptation* and *climate-resilience*, prioritising the use of *nature-based solutions* and informed by mātauranga Māori~~.~~. This includes~~ing~~ ~~by~~, as appropriate to the scale and context of the activity:

~~(a) the application of water sensitive urban design principles and methods to improve water quality and overall environmental quality, including by avoiding or minimising stormwater contaminants in discharges to the stormwater network or to water,~~

~~(b) managing stormwater flowrates and volumes to minimise flooding and to maintain, to the extent practicable, natural stream flows, and~~

Commented [KP7]: Recommended as part of HS5 Officer Right of Reply

(~~a~~c) avoiding significant adverse effects on the climate change mitigation, climate change adaptation and climate-resilience functions and values of an ecosystem and avoiding, minimising, or remedying other adverse effects on these functions and values.

Explanation

Climate change, combined with population growth and housing intensification, is increasingly challenging the resilience and well-being of ~~urban~~ communities and natural ecosystems, with increasing exposure to natural hazards, and increasing pressure on water supply, wastewater and stormwater infrastructure, and the health of natural ecosystems.

This policy identifies the key attributes required to ensure that development and infrastructure provides for climate-resilience and requires the regional council to take all opportunities to provide for actions and initiatives, particularly nature-based solutions, that will prepare our communities for the changes to come.

It is noted that other policies of this RPS also provide regulatory requirements ~~to deliver climate resilient infrastructure and development~~ to apply water sensitive urban design principles and hydrological control including Policy~~ies~~ 14, Policy FW.3, Policy FW.XX and Policy 42.

Commented [KP8]: Recommended as part of HS5 Officer Right of Reply