

## 3 Objectives

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<sup>1</sup> S42A Report: Overall policy framework of the proposed Plan – Part B, Clause 16(2) amendment

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### 3.1 Ki uta ki tai: mountains to the sea

#### Objective O1



Air, land, fresh water bodies and the coastal environment<sup>2</sup> are managed as integrated and connected resources; **ki uta ki tai** – mountains to the sea.

#### Objective O2



The importance and contribution of land and water to the social, economic and cultural well-being of the community are recognised.

#### Objective O3



**Mauri** is sustained and enhanced, particularly the **mauri** of fresh and coastal waters.

#### Objective O4



The intrinsic values of ~~aquatic~~ freshwater and marine ecosystems are recognised and the life supporting capacity of water and ecosystems are safeguarded~~are recognised~~.<sup>3</sup>

#### Objective O5



Fresh water bodies and the coastal marine area, as a minimum, are managed to:

- (a) safeguard **aquatic ecosystem health** and **mahinga kai**, and
- (b) provide for contact recreation and **Māori customary use**, and
- (c) in the case of fresh water, provide for the **health needs of people**.

### 3.2 Beneficial use and development

#### Objective O6

Sufficient water of a suitable quality is available for the **health needs of people** and for source water for community drinking water supply.<sup>4</sup>

#### Objective O7

Fresh water is available in quantities and is of a suitable quality for the reasonable needs of **livestock**.

<sup>2</sup> S42A Report: Overall policy framework of the proposed Plan – Part B, Issue 4.1

<sup>3</sup> S42A Report: Overall policy framework of the proposed Plan – Part B, Issue 4.2

<sup>4</sup> S42 Report: Community Drinking Water Supplies, issue 6.

## Objective O8

The social, economic, cultural and environmental benefits of taking and using water are recognised and provided for within the Plan's allocation framework.

### New Objective

Any further over-allocation of fresh water is avoided and existing over-allocation is phased out.<sup>5</sup>

## Objective O9



The recreational values of the coastal marine area, rivers and lakes and their margins and **natural wetlands** are maintained and enhanced.

## Objective O10



Public access to and along the coastal marine area and rivers and lakes is maintained and enhanced.

## ~~Objective O11~~



~~Opportunities for **Māori customary use** of the coastal marine area, rivers and lakes and their margins and **natural wetlands** for cultural purposes are recognised, maintained and improved.~~<sup>4</sup>

## Objective O12



The social, economic, cultural and environmental benefits of **regionally significant infrastructure** and **renewable energy generation activities** are recognised.

## Objective O13



The use and ongoing operation of **regionally significant infrastructure** and **renewable energy generation activities** in the coastal marine area are protected from new incompatible use and development occurring under, over, or adjacent to the infrastructure or activity.

## 3.3 Māori relationships

### Objective O14



The relationships of Māori relationships and their culture and traditions with air, land and water, in particular with areas and sites with significant values for mana whenua, are recognised, maintained and improved, including:

- (a) opportunities for **Māori customary use** of the coastal marine area, rivers, lakes and their margins and **natural wetlands** for cultural purposes are recognised, maintained and improved, and
- (b) kaitiakitanga is recognised and **mana whenua** actively participate in planning and decision making, in relation to the use, development and protection of natural and physical resources and

<sup>5</sup> Supplementary RoR: Water allocation, 21 December 2017

- (c) the availability of **mahinga kai** species to support Māori customary harvest is increased in quantity, quality and diversity, and
- (d) the relationship of **mana whenua** with **Ngā Taonga Nui a Kiwa** is recognised and provided for, and
- (e) sites with significant **mana whenua** values are protected from use and development that will adversely affect their values and restored to a state where the characteristics and qualities of those sites sustain the identified values.<sup>6</sup>

#### Objective O15



~~Kaitiakitanga is recognised and **mana whenua** actively participate in planning and decision-making in relation to the use, development and protection of natural and physical resources<sup>7</sup>.~~<sup>4</sup>

#### Objective O16



~~The relationship of **mana whenua** with **Ngā Taonga Nui a Kiwa** is recognised and provided for.~~<sup>8</sup>

### 3.4 Natural character, form and function – natural processes, and management of hazard risk<sup>9</sup>

#### Objective O17



The natural character of the coastal marine area, **natural wetlands, and** rivers, lakes and their margins ~~and **natural wetlands**~~<sup>10</sup> is preserved and protected from inappropriate use and development.

#### Objective 18 ~~Objective O18~~<sup>11</sup>



~~The ecological, recreational, **mana whenua**, and amenity values of estuaries, and<sup>12</sup> harbours are protected including their sensitivity as low energy receiving environments ~~are is~~ recognised, and their health and function is restored ~~over time to a healthy functioning state as defined by tables 3.7 and 3.8.~~<sup>13</sup> The ecological, recreational, **mana whenua**, and amenity values of estuaries including their sensitivity as ~~low energy receiving environments~~ are recognised, and their health and function is restored over time.~~

#### Objective O19



~~The interference from use and development on **natural**Natural<sup>14</sup> processes, including natural elements, patterns and ecological processes continue to occur,~~

<sup>6</sup> RoR Report: Areas and sites with significant mana whenua values, Section 3 (addresses all changes to Objectives O11, O14, O15, O16, O 26, O 33)

<sup>7</sup> S42A Report: Overall policy framework of the proposed Plan – Part B, Issue 5.3

<sup>8</sup> RoR Report: Areas and sites with significant mana whenua values. Section 3 (addresses all changes to Objectives O11, O14, O15, O16, O 26, O 33)

<sup>9</sup> RoR Report: Natural hazards

<sup>10</sup> S42A Report: Natural form and function, Issue 2

<sup>11</sup> S42A Report: Water quality, Issue 5.3

<sup>12</sup> RoR Report: Wetlands and biodiversity, issue 2.1.

<sup>13</sup> RoR Report: Wetlands and biodiversity, issue 2.3.

<sup>14</sup> S42A Report: Natural form and function, Issue 6

and the integrity and functioning of natural processes and forms are retained, is minimised.

### 3.4b Natural hazards<sup>1546</sup>

#### Objective O20



The **risk, residual risk**, and adverse effects from natural hazards and climate change on people, the community and infrastructure are acceptable.<sup>17</sup>

(a) not increased in the coastal marine area, and

(b) acceptable in the beds of lakes and rivers<sup>18</sup>.

#### Objective O21



Inappropriate use and development in **high hazard areas** is avoided.

#### ~~Objective O22~~



~~Hard engineering mitigation and protection methods are only used as a last practicable option.~~<sup>19</sup>

### 3.5 Water quality

#### Objective O23



The quality of groundwater, water in ~~the region's rivers, lakes, natural wetlands, groundwater~~ surface water bodies<sup>20</sup> and the coastal marine area is maintained or improved.

#### Objective O24



Rivers, lakes, **natural wetlands** and coastal water are suitable for contact recreation and **Māori customary use**, including by:

- (a) maintaining water quality, or
- (b) improving water quality in:
  - (i) **significant contact recreation fresh water bodies** to meet, as a minimum, the primary contact recreation objectives in Table 3.1, and
  - (ii) coastal water to meet, as a minimum, the primary contact recreation objectives in Table 3.3, and
  - (ii) sites with significant mana whenua values and Ngā Taonga Nui a Kiwa ~~rivers and lakes used for Māori customary use~~

<sup>15</sup> S42A Report: Overall framework of the proposed Plan – Part B, Clause 16(2) amendment

<sup>16</sup> RoR Report: Natural hazards

<sup>17</sup> RoR Report: Natural hazards, issue 3.2.

<sup>18</sup> Supplementary RoR Report: Natural hazards

<sup>19</sup> RoR Report: Natural hazards, issue 5.2

<sup>20</sup> S42A Report: Water quality, Issue 3.1

~~identified in Schedule B or Schedule C to~~<sup>21</sup> meet, as a minimum, the primary contact recreation objectives in Table 3.1 or 3.3, and<sup>22</sup>

~~(iv)(iii)~~ all other rivers and lakes and **natural wetlands** to meet, as a minimum, the secondary contact recreation objectives in Table 3.2.

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<sup>21</sup> RoR Report: Water Quality (Rachel Pawson), Section 9.2

<sup>22</sup> S42A Report: Water quality, Issue 4.1

## Contact recreation and Māori customary use objectives

**Table 3.1 Primary contact recreation objectives in freshwater bodies<sup>23</sup> in significant contact recreation freshwater bodies and rivers and lakes used for Māori customary use identified in Schedule B or Schedule C**

Water body type	<i>E. coli</i> cfu/100mL 95 <sup>th</sup> percentile <sup>24</sup>	Cyanobacteria		Māori customary use	Toxicants and irritants	Water clarity <sup>25</sup>	Sediment cover <sup>26</sup>	Heterotrophic growths <sup>27</sup>
		Planktonic <sup>28</sup>	Benthic					
Rivers	≤ 540 at all flows below 3x median flow, September to April inclusive		Low risk of health effects from exposure	Fresh water is safe for primary contact and supports Māori customary use by the achievement of the huanga identified by mana whenua. <sup>29</sup>	Concentrations of toxicants or irritants do not pose a threat to water users	1.6m	25%	No bacterial or fungal slime growths visible to the naked eye as plumose growths or mats
Lakes	≤ 540 September to April inclusive	< <sup>30</sup> 1.8mm <sup>3</sup> /L biovolume equivalent of potentially toxic cyanobacteria OR < 10mm <sup>3</sup> /L total biovolume of all cyanobacteria						

<sup>23</sup> For suggested guidance on the *E. coli*, cyanobacteria and toxicants and irritants objectives in Table 3.1 refer to Table 3.3 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45, RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>24</sup> Derived using the Hazen method from a minimum of 30 data points collected over three years

<sup>25</sup> RoR Report: Water quality (Rachel Pawson), Section 9.2

<sup>26</sup> RoR Report: Water quality (Rachel Pawson), Section 9.2

<sup>27</sup> RoR Report: Water quality (Rachel Pawson), Section 9.2

<sup>28</sup> 80<sup>th</sup> percentile derived using the Hazen method from a minimum of three years data

<sup>29</sup> RoR Report: Water quality (Rachel Pawson), Section 8

<sup>30</sup> S42A Report: Water quality, Issue 4.2





Table 3.2 Secondary contact <a href="#">recreation objectives with water</a> in freshwater bodies <sup>31</sup>				
Water body type	<i>E. coli</i> cfu/100mL median <sup>32</sup>	Cyanobacteria		<a href="#">Māori customary use</a> <sup>33</sup>
		Planktonic <sup>2</sup>	Benthic	
Rivers	≤ 1,000		Low risk of health effects from exposure	<a href="#">Fresh water supports Māori customary use by the achievement of the huanga identified by mana whenua.</a>
Lakes		< 1.8mm <sup>3</sup> /L biovolume equivalent of potentially toxic cyanobacteria OR < 10mm <sup>3</sup> /L total biovolume of all cyanobacteria		
<a href="#">Natural wetlands</a> <sup>34</sup>	<a href="#">≤ 1,000</a>			

Table 3.3 Contact recreation <a href="#">objectives</a> in coastal water <sup>35</sup>			
Coastal water type	Pathogens Indicator bacteria/100mL 95 <sup>th</sup> percentile <sup>36</sup>	Māori customary use	Shellfish quality
Estuaries <sup>37</sup>	≤ 540 <i>E. coli</i>	Coastal water is <a href="#">safe for primary contact and supports Māori customary use by the achievement of the huanga identified by mana whenua</a> <sup>38</sup>	Concentrations of contaminants, including pathogens, are sufficiently low for shellfish to be safe to collect and consume where appropriate
Open coast and harbours <sup>39</sup>	≤ 500 enterococci		

<sup>31</sup> For suggested guidance on the *E. coli*, cyanobacteria and toxicants and irritants objectives in Table 3.2 refer to Table 3.3 of the Technical guidance document: [Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45](#). RoR Report: Water quality (Rachel Pawson), Section 10.5

<sup>32</sup> Based on a minimum of 12 data points collected over three years

<sup>33</sup> RoR Report: Water quality (Rachel Pawson), Section 8

<sup>34</sup> S42A Report: Water quality, Issue 4.2

<sup>35</sup> For suggested guidance on the pathogens and shellfish quality objectives in Table 3.3 refer to Table 3.6 of the Technical guidance document: [Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45](#). RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>36</sup> Derived using the Hazen method from a minimum of 30 data points collected over three years

<sup>37</sup> Excludes Te Awarua-o-Porirua Harbour and includes Lake Onoke. Estuaries, including river mouth estuaries, should be treated as an estuary when they are dominated by saline water, in which case Table 3.3 applies, and as rivers when they are dominated by fresh water, in which case Table 3.1 or 3.2 applies.

<sup>38</sup> RoR Report: Water quality (Rachel Pawson), Section 8

<sup>39</sup> Includes Wellington Harbour (Port Nicholson) and Te Awarua-o-Porirua Harbour. Excludes the Lambton Harbour Area within the Commercial Port Area delineated in Map 32. S42A Report: Water quality (Rachel Pawson), Section 9.2

### 3.6 Biodiversity, aquatic ecosystem health and mahinga kai

#### Objective O25



To safeguard Biodiversity,<sup>40</sup> aquatic ecosystem health and mahinga kai in fresh water bodies and the coastal marine area are safeguarded.<sup>41</sup>

~~(a) Water quality, flows, water levels and aquatic and coastal habitats are managed to maintain biodiversity, aquatic ecosystem health and mahinga kai, and<sup>41</sup>~~

~~(b) restoration of aquatic ecosystem health and mahinga kai is encouraged, and~~

~~(c) where an objective in Tables 3.4, 3.5, 3.6, 3.7 or 3.8 is not met, a fresh water body or coastal marine area is improved over time to meet that objective. In particular:~~

~~(a) The ecological, recreational, mana whenua and amenity values of estuaries and harbours are protected, including their sensitivity as low energy receiving environments is are recognised, and their health and function is restored over time.<sup>42</sup>~~

~~(b) Vegetated riparian margins are established, maintained or restored.~~

~~(c) The extent of natural wetlands is maintained or increased and their condition is restored.~~

~~(d) Use and development provides for the passage of fish and koura, and the passage of indigenous fish and koura is restored.~~

~~(e) The habitat of trout identified in Schedule I (trout habitat) important trout fishery rivers and spawning waters is maintained and or improved.<sup>43</sup>~~

~~(f) Outstanding water bodies and their significant values are protected and restored.<sup>44</sup>~~

~~(g) Ecosystems and habitats with significant indigenous biodiversity values are protected and restored.~~

#### Note

~~Where the relevant **whaitua** sections of the Plan contain an objective on the same subject matter as Objective O25 (water quality, biological and habitat outcomes), the more specific **whaitua** objective will take precedence.~~

<sup>40</sup> S42A Report: Water quality, Issue 5.3

<sup>41</sup> RoR Report: Wetlands and biodiversity, issue 2.1.

<sup>42</sup> This amendment incorporates a recommendation from the S42A Report: Wetlands and Biodiversity

<sup>43</sup> This amendment incorporates a recommendation from the S42A Report: Wetlands and Biodiversity

<sup>44</sup> This amendment incorporates a recommendation from the S42A Report: Wetlands and Biodiversity

## Aquatic ecosystem health and mahinga kai objectives

Table 3.4 Rivers and streams <sup>45</sup>										
River class <sup>46</sup>		Macrophytes	Periphyton biomass <sup>47</sup> mg/m <sup>2</sup> chlorophyll a		Periphyton cover <sup>48</sup> <i>Only applies when there is no periphyton biomass data</i>		Invertebrates <sup>49</sup> Macroinvertebrate Community Index		Fish	Mahinga kai species
			All rivers	Significant rivers <sup>50</sup>	All rivers	Significant rivers <sup>51</sup>	All rivers	Significant rivers <sup>52</sup>		
1	Steep, hard sedimentary	Indigenous macrophyte communities are resilient and their structure, composition and diversity are balanced	≤ 50	≤ 50	<40%	<20%	≥ 120	≥ 130	Indigenous fish communities are resilient and their structure composition and diversity are balanced	Mahinga kai species, including taonga species, are present in quantities, size and of a quality that is appropriate for the area <sup>53</sup> <a href="#">Huanga of mahinga kai as identified by mana whenua are achieved.</a> <sup>55</sup>
2	Mid-gradient, coastal and hard sedimentary		≤ 120	≤ 50	<20%	<20%	≥ 105	≥ 130		
3	Mid-gradient, soft sedimentary		≤ 120*	≤ 50*	<40%	<20%	≥ 105	≥ 130		
4	Lowland, large, draining ranges		≤ 120	≤ 50	<40%	<20%	≥ 110	≥ 130		
5	Lowland, large, draining plains and eastern Wairarapa		≤ 120*	≤ 50*	<40%	<20%	≥ 100	≥ 120		
6	Lowland, small		≤ 120*	≤ 50*	<40%	<20%	≥ 100	≥ 120		

<sup>45</sup>For suggested guidance on the macrophytes, periphyton biomass, invertebrates and fish objectives in Table 3.4 refer to Table 2.4 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015. GW/ESCI-T-15/45. RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>46</sup> Shown on Maps 21a to 21e.

<sup>47</sup> The periphyton biomass objectives for River classes 3,5 and 6 marked with an asterisk (\*) shall not be exceeded by more than 17% of samples in 'productive' rivers and; for all other River classes, to be exceeded and by no more than 8% of samples in all other rivers, based on a minimum of three years of monthly sampling. Rivers are categorised as productive according to types in the River Environment Classification (REC). Productive rivers are those that fall within the REC "Dry" Climate categories (i.e. Warm-Dry (WD) and Cool-Dry (CD)) and the REC Geology categories that have naturally high levels of nutrient enrichment due to their catchment geology (i.e. Soft-Sedimentary (SS), Volcanic Acidic (VA) and Volcanic Basic (VB)). Therefore, productive rivers are those that belong to the following REC defined types: WD/SS, WD/VB, WD/VA, CD/SS, CD/VB, CD/VA. RoR Report: Water Quality (Rachel Pawson), Section 10.6

<sup>48</sup> RoR Report: Water Quality (Rachel Pawson), Section 10.6

<sup>49</sup> Rolling median based on a minimum of three years of annual samples collected during summer or autumn.

<sup>50, 11</sup> Rivers or streams with high macroinvertebrate community health, identified in column 2 of Schedule F1 (rivers/lakes).

<sup>51</sup> Rivers or streams with high macroinvertebrate community health, identified in column 2 of Schedule F1 (rivers/lakes).

<sup>53</sup> Appropriate for the area refers to those species expected present based on natural distribution and habitat.

<sup>54</sup> S42A Report: Water quality, Issue 5.5

<sup>55</sup> RoR Report: Water Quality (Rachel Pawson), Section 8

Table 3.5 Lakes <sup>56</sup>					
Lake type	Macrophytes	Phytoplankton	Fish	Mahinga kai species	Nutrients
All lakes <sup>57,58</sup>	Submerged and emergent macrophyte communities are resilient and occupy at least one third of the lake bed that is naturally available for macrophytes, and are dominated by native species	Phytoplankton communities are balanced and there is a low frequency of nuisance blooms	Indigenous fish communities are resilient and their structure, composition and diversity are balanced	<b>Mahinga kai</b> species, including <b>taonga species</b> , are present in quantities, size and of a quality that is appropriate for the area <sup>59,60</sup> <a href="#">Huanga of mahinga kai as identified by mana whenua are achieved.</a> <sup>61</sup>	Total nitrogen and phosphorus concentrations do not cause an imbalance in aquatic plant, invertebrate or fish communities

<sup>56</sup> For suggested guidance on the macrophytes, phytoplankton, fish and nutrients objectives in Table 3.5 refer to Table 2.7 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45, RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>57</sup> Except for intermittently closed and open lakes or lagoons (ICOLLs), such as Lake Onoke. These should be treated as a lake when they are in a closed state. When open to the coast, they should be managed as an estuary, in which case Table 3.8 applies.

<sup>58</sup> S42A Report: Water quality, Issue 5.7

<sup>59</sup> Appropriate for the area refers to those species expected present based on natural distribution and habitat.

<sup>60</sup> S42A Report: Water quality, Issue 5.5

<sup>61</sup> RoR Report: Water Quality (Rachel Pawson), Section 8

<b>Table 3.6 Groundwater<sup>62</sup></b>			
<b>Groundwater type</b>	<b>Nitrate</b>	<b>Quantity</b>	<b>Saltwater intrusion</b>
<b>Directly connected to surface water</b>	Nitrate concentrations do not cause unacceptable effects on groundwater-dependent ecosystems or on aquatic plants, invertebrate or fish communities in connected surface water bodies	The quantity of water is maintained to safeguard healthy groundwater-dependent ecosystems	The boundary between salt and fresh groundwater does not migrate between fresh water and salt water aquifers
<b>Not directly connected to surface water</b>	Nitrate concentrations do not cause unacceptable effects on stygofauna communities or other groundwater ecosystems		

<sup>62</sup> For suggested guidance on the nitrate, quantity and saltwater intrusion objectives in Table 3.6 refer to Table 2.10 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45. RoR Report: Water Quality (Rachel Pawson), Section 10.5

Table 3.7 Natural wetlands <sup>63</sup>					
Wetland type	<b>Plants Flora<sup>64</sup></b>	<b>Fish Fauna</b>	<b>Mahinga kai species</b>	<b>Nutrient status</b>	<b>Hydrology</b>
<b>Bog</b>	Indigenous plant communities are appropriate <sup>65</sup> to wetland type, are resilient and their structure, composition and diversity are <del>balanced</del> within an acceptable range of that expected under natural conditions	Indigenous fish faunal communities (including those of birds, fish, lizards and invertebrates) are appropriate <sup>16</sup> to wetland type are resilient and their structure composition and diversity are <del>balanced</del> within an acceptable range of that expected under natural conditions	<b>Mahinga kai species</b> , including <b>taonga species</b> , are present in, or are migrating through, the wetland and are in quantities, size and of a quality that is appropriate to the area <sup>66</sup> <sup>67</sup> <b>Huanga of mahinga kai as identified by mana whenua are achieved.</b> <sup>68</sup>	Low or very low	Water table depth and hydrologic regime is appropriate to the wetland type
<b>Fen</b>				Low to moderate	
<b>Seepage</b>				<u>Low to high</u>	
<b>Saltmarsh<sup>69</sup></b>				<u>Moderate to high</u>	
<b>Swamp</b>				Moderate to high	
<b>Marsh</b>				Moderate to high	

<sup>63</sup> For suggested guidance on the flora, fauna, nutrient status and hydrology objectives in Table 3.7 refer to Table 2.13 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45. RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>64</sup> S42A Report: Water quality, Issue 5.9

<sup>65</sup> Appropriate refers to communities naturally found in the different wetland types, and indigenous species that are native to the area (i.e. species expected present based on natural distribution and habitat)

<sup>66</sup> Appropriate for the area refers to those species expected present based on natural distribution and habitat

<sup>67</sup> S42A Report: Water quality, Issue 5.5

<sup>68</sup> RoR Report: Water Quality (Rachel Pawson), Section 8

<sup>69</sup> Refers to terrestrial component of saltmarshes, coastal saltmarsh is provided for by Table 3.8

Table 3.8 Coastal waters <sup>70</sup>							
Coastal water type	Macroalgae	Seagrass and saltmarsh	Invertebrates	Mahinga kai species	Fish	Sedimentation rate	Mud content
Open coast	The algae community is balanced with a low frequency of nuisance blooms	NA	Invertebrate communities are resilient and their structure, composition and diversity are balanced	Mahinga kai species, including taonga species, are present in quantities, sizes and of a quality that is appropriate for the area <sup>71</sup> <a href="#">Huanga of mahinga kai as identified by mana whenua are achieved.</a> <sup>73</sup>	NA <sup>74</sup>	The sedimentation rate is within an acceptable range of that expected under natural conditions	NA
Estuaries and harbours <sup>75</sup> <sup>76</sup>		Seagrass, saltmarsh and brackish water submerged macrophytes are resilient and diverse and their cover is sufficient to support invertebrate and fish communities			Indigenous fish communities are resilient and their structure, composition and diversity are balanced		The mud content and areal extent of soft mud habitats is within a range of that found under natural conditions

<sup>70</sup> For suggested guidance on the flora, fauna, nutrient status and hydrology objectives in Table 3.8 refer to Table 2.16 of the Technical guidance document: Aquatic ecosystem health and contact recreation outcomes in the Proposed Natural Resources Plan, Wellington Regional Council, 2015, GW/ESCI-T-15/45. RoR Report: Water Quality (Rachel Pawson), Section 10.5

<sup>71</sup> Appropriate for the area refers to those species expected present based on natural distribution and habitat

<sup>72</sup> S42A Report: Water quality, Issue 5.5

<sup>73</sup> RoR Report: Water Quality (Rachel Pawson), Section 8

<sup>74</sup> S42A Report: Water quality, Issue 5.10

<sup>75</sup> Intermittently closed and open lakes or lagoons (ICOLLs), such as Lake Onoke, should be treated as an estuary when they are in an open state. When closed to the coast, they should be managed as a lake, in which case Table 3.2 applies.

<sup>76</sup> S42A Report: Water quality, Issue 5.10





### ~~Objective O26~~



~~The availability of mahinga kai species to support Māori customary harvest is increased, in quantity, quality and diversity.<sup>77</sup>~~

### ~~Objective O27<sup>78</sup>~~



~~Vegetated riparian margins are established, and maintained, or restored to enhance water quality, aquatic ecosystem health, mahinga kai and indigenous biodiversity of rivers, lakes, wetlands and the coastal marine area.<sup>79</sup>~~

### ~~Objective O28<sup>80</sup> Objective O28<sup>81</sup>~~



~~The extent of natural wetlands is maintained or increased and their condition is restored to a healthy functioning state as defined by Tables 3.7 and 3.8. The extent of natural wetlands is maintained or increased and their condition is restored.~~

### ~~Objective 29 Objective O29<sup>82</sup>~~



~~Use and development provides for the The passage of fish and koura is maintained, and the passage of indigenous fish and koura is restored.<sup>83</sup> passage of fish and koura, and the passage of indigenous fish and koura is restored.~~

### ~~Objective 30 Objective O30<sup>84</sup>~~

~~The habitat of The habitat of trout identified in Schedule I (trout habitat) important trout fishery rivers and spawning waters is maintained or improved<sup>85</sup> is maintained and improved.~~

## 3.7 Sites with significant values

### ~~Objective 31<sup>86</sup> Objective O31<sup>87</sup>~~

~~Outstanding water bodies and their significant values are protected and restored. Where the significant values relate to biodiversity, aquatic ecosystem health and mahinga kai, restoration is to a healthy functioning state as defined by Tables 3.4, 3.5, 3.6, 3.7 and 3.8.~~

~~Outstanding water bodies and their significant values are protected.~~

### Objective O32



Outstanding natural features and landscapes are protected from inappropriate use and development.

<sup>77</sup> RoR Report: Areas and sites with significant mana whenua values, Section 3 (addresses all changes to Objectives O11, O14, O15, O16, O26, O33)

<sup>78</sup> S42A Report: Water quality, Issue 5.3

<sup>79</sup> S42A Report: Land use in riparian margins and stock access to surface water bodies and the CMA, Issue 2.1

<sup>80</sup> RoR Report: Wetlands and biodiversity, issue 2.4.

<sup>81</sup> S42A Report: Water quality, Issue 5.3

<sup>82</sup> S42A Report: Water quality, Issue 5.3

<sup>83</sup> RoR Report: Wetlands and biodiversity, issue 2.5.

<sup>84</sup> S42A Report: Water quality, Issue 5.3

<sup>85</sup> RoR Report: Wetlands and biodiversity, issue 2.6.

<sup>86</sup> RoR Report: Wetlands and biodiversity, issue 2.7.

<sup>87</sup> S42A Report: Water quality, Issue 5.3

~~Objective O33~~ 

~~Sites with significant mana whenua values are protected and restored.<sup>23</sup>~~

Objective O34 

Significant historic heritage values are protected from inappropriate modification, use and development.

~~Objective 35<sup>88</sup> Objective O35<sup>89</sup>~~ 

~~Ecosystems and habitats with significant indigenous biodiversity values are protected and restored to a healthy functioning state as defined by Tables 3.4, 3.5, 3.6, 3.7 and 3.8. Ecosystems and habitats with significant indigenous biodiversity values are protected and restored.~~

Objective O36 

Significant geological features in the coastal marine area are protected.

Objective O37 

Significant surf breaks are protected from inappropriate use and development.

~~Objective O38~~ 

~~Identified special amenity landscape values are maintained or enhanced.~~

### 3.8 Air

Objective O39 

Ambient air quality is maintained or improved to the acceptable category or better in Schedule L1 (ambient air).

Objective O40 

Human health, **property**, and the environment are protected from the adverse effects of **point source discharges** of air pollutants.

Objective O41 

The adverse effects of odour, smoke and dust on amenity values and people's well-being are reduced.

### 3.9 Soil

Objective O42 

Soils are healthy, ~~and productive, and retain a range of uses;~~ and accelerated soil erosion is reduced<sup>90</sup>.

~~Land use activities, including those that occur on, or involve the use or disturbance of soil, are managed to:~~

~~(a) safeguard the life supporting capacity of soil,~~

<sup>88</sup> RoR Report: Wetlands and biodiversity, issue 2.8.

<sup>89</sup> S42A Report: Water quality, Issue 5.3

<sup>90</sup> Response to Minute # 22, In relation to clarification on Objectives O42, O44 and O45, Hearing 2, 17 November 2017

- (b) ~~maintain, and where they have been degraded, enhance the desirable physical, chemical and biological characteristics of soil that enables a ranges of uses,~~
- (c) ~~reduce accelerated soil erosion, and~~
- (d) ~~contribute to safeguarding the life-supporting capacity and preserving the natural character of interconnected **surface water bodies** and their margins, groundwater and the coastal marine area.<sup>91</sup>~~

#### Objective O43



~~Contaminated land is managed to protect human health and the~~ The environment is protected from the more than minor adverse effects of discharges from contaminated land.<sup>92</sup>

### 3.10 Land use

#### Objective O44



~~The adverse effects on soil and water from land use activities are minimised~~

~~Land use activities, including stock access to a **surface water body** or the coastal marine area, maintain or enhance soil conservation and contribute to maintaining and improving water quality and the health of aquatic ecosystems<sup>93</sup>.~~

Land use activities;

- (i) safeguard the life-supporting capacity of soil, water and ecosystems; and
- (ii) maintain, and where degraded, contribute to improving the quality of water and aquatic ecosystem health<sup>94</sup>.

#### Objective O45



~~The adverse effects of **livestock** access on **surface water bodies** are reduced.~~<sup>95</sup>

### 3.11 Discharges to land or water

#### Objective O46



~~Discharges to land are managed to reduce~~ The runoff or leaching of contaminants to water safeguard the life-supporting capacity of water from discharges to land is reduced<sup>96</sup>.

<sup>91</sup> RoR Report: Soil conservation

<sup>92</sup> RoR report: Contaminated land and hazardous substances

<sup>93</sup> S42A Report: Land use in riparian margins and stock access to surface water bodies and the CMA, Issue 2.2

<sup>94</sup> Supplementary response to the Panel, Hearing 2, 8 December 2017

<sup>95</sup> S42A Report: Land use in riparian margins and stock access to surface water bodies and the CMA, Issue 2.3

<sup>96</sup> RoR Report: Discharges to land

#### Objective O47



The amount of sediment-laden runoff entering water is reduced.

#### Objective O48



**Stormwater networks** and urban land uses are managed so that the adverse quality and quantity effects of stormwater<sup>97, 98</sup> discharges **from the networks** are improved over time.

#### Objective O49



Discharges of **wastewater** occur to land rather than are promoted over in preference to discharges to fresh water **and or** coastal water, unless the discharge to land is not the best practicable option<sup>99</sup>.

#### Objective O50

Discharges of **wastewater** to fresh water are progressively reduced removed<sup>100</sup>.

#### Objective O50A<sup>101</sup>



The discharge of wastewater to coastal water does not reduce water quality and reflects mana whenua and community values.

#### Objective O51



The environment is protected from the adverse effects of discharges of hazardous substances is managed to protect human health, property and the environment and the creation of contaminated land is avoided.<sup>102</sup>

### 3.12 Water allocation

#### Objective O52

The efficiency of allocation and use of water is improved and maximised through time, ~~including by means of:~~

- ~~(a) — efficient infrastructure, and~~
- ~~(b) — **good management practice**, including irrigation, domestic municipal and industry practices, and~~
- ~~(c) — maximising reuse, recovery and recycling of water and contaminants, and~~
- ~~(d) — enabling water to be transferred between users, and~~
- ~~(e) — enabling water storage outside river beds.~~<sup>103</sup>

<sup>97</sup> S42A Report: Stormwater, Issue 1.2

<sup>98</sup> ROR Report, Stormwater, Section 6.1. Recommend Objective O48 is retained as notified.

<sup>99</sup> RoR Report: Discharges to land

<sup>100</sup> RoR Report: Wastewater to water, issue 5

<sup>101</sup> S42A Report: Wastewater to water, Issue 5

<sup>102</sup> S42A Report: Contaminated Land and Hazardous Substances, issue 3.

<sup>103</sup> S42A Report: Water allocation, Issue 3.2

#### Objective 051A

Any further over-allocation of fresh water is avoided and existing over-allocation is phased out.<sup>104</sup>

### 3.13 Coastal management

#### Objective O53



Use and development in the coastal marine area has a **functional need** or **operational requirement** to be located there.

#### Objective O54



Use and development makes efficient use of any occupied space in the coastal marine area.

#### Objective O55



The need for public open space in the coastal marine area is recognised.

#### Objective O56



New development in the coastal marine area is of a scale, density and design that is compatible with its location in the coastal environment.

#### Objective O57



Use and development is appropriate in the **Lambton Harbour Area** when it is compatible with its surroundings and the Central Area of Wellington City.

#### Objective O58



Noise, including underwater noise, from activities in the coastal marine area is managed to maintain the health and well-being of marine fauna, and the health and amenity value of users of the coastal marine area.

#### Objective O59



The efficient and safe passage of vessels and aircraft that support the movement of people, goods and services is provided for in the coastal marine area.

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<sup>104</sup> Supplementary right of reply: water allocation, HS3, 21 December 2017.