

RP – SCHED5 – Surface *water quality targets** (or standards where specified under conditions / standards / terms in a rule)

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USER GUIDE: How to use the contents of RP-SCHED5.

Step 1: Identify the *WMSA** for your proposed activity (go to RP-SCHED1).

Step 2: Check if Trout Spawning is a Value for your *WMSA** (go to RP-SCHED2).

Step 3: Identify which *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) apply to your activity using steps a. to c.:

- a. A *river**:
 - i. Turn first to Table 40 to see the *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) that apply to all *river*s* in the Region,

- ii. Then turn to Table 41 to see the *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) that apply to *rivers** in your *WMSA**,
 - iii. If the *river** at the *site** of your proposed activity has the RP-SCHED2 Value of Trout Spawning, turn to Table 42 to see additional *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) that apply 1 May to 30 September (inclusive).
- b. A *lake**:
- i. Turn to RP-SCHED6 Table 47 to determine if your type of *lake** is referred to in v to vii,
 - ii. If your type of *lake** is not referred to in RP-SCHED6 Table 47 v to vii then turn to Table 43,
 - iii. Determine if the *lake** meets the description of a “deep” or “shallow” *lake** from Table 43 and see the *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) that apply to the *lake* water** in Table 43.
- c. *Water** in the *coastal marine area^*:
- i. Turn to Tables 52 to 55 in RCP-SCHED9 to see the *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) that apply in the *coastal marine area^*.

USER NOTE: For table abbreviations – please refer to the fold-out *Water Quality Targets** (or standards where specified under conditions/standards/terms in a rule) **KEY** at the back of this schedule.

Table 40 - Region-wide <i>Water Quality Targets*</i> (or standards where specified under conditions/standards/terms in a rule) that apply to all <i>Rivers*</i>						
<i>Water Management Area*</i>	<i>Sub-area*</i>	<i>E.coli</i> / 100 ml		Periphyton Filamentous Cover	Diatom or Cyanobacterial Cover	QMCi % ^Δ ¹
		< 50 th %ile	< 20 th %ile			
All <i>Water Management Areas*</i>	All <i>Water Management Sub-areas*</i>	260	550	30%	60%	20

¹ This *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) is only relevant for measuring the percentage of change in Quantitative Macroinvertebrate Community Index (QMCi) between appropriately matched habitats upstream and downstream of activities, such as *discharges** to *water**, for the purposes of measuring the *effect** of *discharges** on aquatic macroinvertebrate communities. It is not an appropriate *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) for the measurement of the general state of macroinvertebrate communities in each *Water Management Sub-area**.

Table 41 - Water Quality Targets* (or standards where specified under conditions/standards/terms in a rule) for Rivers* in each Water Management Sub-Area* (Note: refer to Table 43 for the water quality targets* (or standards where specified under conditions/standards/terms in a rule) that apply to lakes*)

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
Upper Manawatū (Mana_1)	Upper Manawatū (Mana_1a)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.167	20	120	0.400	2.1	99	3	20
	Mangatewainui (Mana_1b)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.167	20	120	0.400	2.1	99	3	20
	Mangatoro (Mana_1c)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.110	20	120	0.400	2.1	99	3	20
Weber-Tamaki (Mana_2)	Weber-Tamaki (Mana_2a)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
	Mangatera (Mana_2b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	99	2.5	30
Upper Tamaki (Mana_3)	Upper Tamaki (Mana_3)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20

² The Deposited Sediment Cover (%) Water Quality Target* (or standard where specified under conditions/standards/terms in a rule) only applies for State of the Environment monitoring purposes to determine if the percentage cover of deposited sediment on the bed* of the river* will provide for and maintain the values in each WMSA.

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
Upper Kūmeti (Mana_4)	Upper Kūmeti (Mana_4)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
Tamaki-Hopelands (Mana_5)	Tamaki-Hopelands (Mana_5a)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
	Lower Tamaki (Mana_5b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	99	2.5	30
	Lower Kūmeti (Mana_5c)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	99	2.5	30
	Ōruakeretaki (Mana_5d)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	99	2.5	30
	Raparapawai (Mana_5e)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	99	2.5	30
Hopelands-Tiraumea (Mana_6)	Hopelands-Tiraumea (Mana_6)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
Tiraumea (Mana_7)	Upper Tiraumea (Mana_7a)	7 to 8.5	0.5	23	3	70	2	5	120	0.010	0.444	25	100	0.400	2.1	95	2	30
	Lower Tiraumea (Mana_7b)	7 to 8.5	0.5	23	3	70	2	5	120	0.010	0.444	25	100	0.400	2.1	95	2	30
	Mangaone River (Mana_7c)	7 to 8.5	0.5	23	3	70	2	5	200	0.010	0.444	25	100	0.400	2.1	95	1.6	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Mākuri (Mana_7d)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	120	0.400	2.1	99	3	20
	Mangaramarama (Mana_7e)	7 to 8.5	0.5	22	3	70	2	5	200	0.010	0.444	25	100	0.400	2.1	95	1.6	30
Mangatainoka (Mana_8)	Upper Mangatainoka (Mana_8a)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Middle Mangatainoka (Mana_8b)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
	Lower Mangatainoka (Mana_8c)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
	Mākākahi (Mana_8d)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.444	20	120	0.400	2.1	99	3	20
Upper Gorge (Mana_9)	Upper Gorge (Mana_9a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Mangapapa (Mana_9b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Mangaatua (Mana_9c)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Upper Mangahao (Mana_9d)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.167	15	120	0.320	1.7	99	3	20

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Lower Mangahao (Mana_9e)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
Middle Manawatū (Mana_10)	Middle Manawatū (Mana_10a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Upper Pohangina (Mana_10b)	7 to 8.2	0.5	19	2	80	1.5	5	120	0.006	0.070	15	120	0.320	1.7	99	3	20
	Middle Pohangina (Mana_10c)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Lower Pohangina (Mana_10d)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Aokautere (Mana_10e)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
Lower Manawatū (Mana_11)	Lower Manawatū (Mana_11a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Turitea (Mana_11b)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Kahuterawa (Mana_11c)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Upper Mangaone Stream (Mana_11d)	7 to 8.5	0.5	24	3	60	2	5	200	0.010	0.444	25	100	0.400	2.1	95	2.5	30
	Lower Mangaone Stream (Mana_11e)	7 to 8.5	0.5	24	3	60	2	5	200	0.010	0.444	25	100	0.400	2.1	95	2.5	30
	Main Drain (Mana_11f)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.444	25	100	0.400	2.1	95	2.5	30
Ōroua (Mana_12)	Upper Ōroua (Mana_12a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.167	20	100	0.400	2.1	95	2.5	30
	Middle Ōroua (Mana_12b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.444	20	100	0.400	2.1	95	2.5	30
	Lower Ōroua (Mana_12c)	7 to 8.5	0.5	24	3	70	2	5	200	0.015	0.444	25	100	0.400	2.1	95	2.5	30
	Kiwitea (Mana_12d)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.167	20	100	0.400	2.1	95	2.5	30
	Makino (Mana_12e)	7 to 8.5	0.5	24	3	70	2	5	120	0.015	0.444	25	100	0.400	2.1	95	2.5	30
Coastal Manawatū (Mana_13)	Coastal Manawatū (Mana_13a)	7 to 8.5	0.5	24	3	70	2	5	200	0.015	0.444	25	100	0.400	2.1	95	2.5	30
	Upper Tokomaru (Mana_13b)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Lower Tokomaru (Mana_13c)	7 to 8.5	0.5	24	3	70	2	5	120	0.010	0.444	25	100	0.400	2.1	95	2.5	30
	Mangaore (Mana_13d)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.167	20	100	0.400	2.1	95	2.5	30
	Kōpūtaroa (Mana_13e)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.444	25	100	0.400	2.1	95	2.5	30
	Foxton Loop (Mana_13f)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.444	25	100	0.400	2.1	95	2.5	30
Upper Rangitikei (Rang_1)	Upper Rangitikei (Rang_1)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
Middle Rangitikei (Rang_2)	Middle Rangitikei (Rang_2a)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
	Pukeokahu – Mangaweka (Rang_2b)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.110	15	120	0.320	1.7	99	3.4	20
	Upper Moawhango (Rang_2c)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Middle Moawhango (Rang_2d)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Lower Moawhango (Rang_2e)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	2	30
	Upper Hautapu (Rang_2f)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	120	0.400	2.1	99	3	20
	Lower Hautapu (Rang_2g)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	2	30
Lower Rangitikei (Rang_3)	Lower Rangitikei (Rang_3a)	7 to 8.5	0.5	19	3	80	1.5	5	120	0.010	0.110	15	120	0.400	2.1	99	3	20
	Makohine (Rang_3b)	7 to 8.5	0.5	22	3	70	2	5	200	0.010	0.110	25	100	0.400	2.1	95	1.6	30
Coastal Rangitikei (Rang_4)	Coastal Rangitikei (Rang_4a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Tidal Rangitikei (Rang_4b)	7 to 8.5	0.5	24	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
	Porewa (Rang_4c)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	1.6	30
	Tūtaenui (Rang_4d)	7 to 8.5	0.5	24	3	60	2	5	200	0.010	0.110	25	100	0.400	2.1	95	2.5	30
Upper Whanganui (Whai_1)	Upper Whanganui (Whai_1)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
Cherry Grove (Whai_2)	Cherry Grove (Whai_2a)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Upper Whakapapa (Whai_2b)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Lower Whakapapa (Whai_2c)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Piopiotea (Whai_2d)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Pungapunga (Whai_2e)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Upper Ōngarue (Whai_2f)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Lower Ōngarue (Whai_2g)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
Te Maire (Whai_3)	Te Maire (Whai_3)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
Middle Whanganui (Whai_4)	Middle Whanganui (Whai_4a)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
	Upper Ōhura (Whai_4b)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Lower Ōhura (Whai_4c)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Rētāruke (Whai_4d)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
Pipiriki (Whai_5)	Pipiriki (Whai_5a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	2	30
	Tangarakau (Whai_5b)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Whangamomona (Whai_5c)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Upper Manganui o te Ao (Whai_5d)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
	Makatote (Whai_5e)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
	Waimarino (Whai_5f)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
	Middle Manganui o teAo (Whai_5g)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20
	Mangaturuturu (Whai_5h)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3.4	20

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Lower Manganui o teAo (Whai_5i)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	15	120	0.320	1.7	99	3.4	20
	Orautoha (Whai_5j)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	15	120	0.320	1.7	99	3.4	20
Paetawa (Whai_6)	Paetawa (Whai_6)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	2	30
Lower Whanganui (Whai_7)	Lower Whanganui (Whai_7a)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Coastal Whanganui (Whai_7b)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Upokongaro (Whai_7c)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Matarawa (Whai_7d)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
Upper Whangaehu (Whau_1)	Upper Whangaehu (Whau_1a)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Waitangi (Whau_1b)	7 to 8.5	0.5	19	2	80	1.5	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Tokiahuru (Whau_1c)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
Middle Whangaehu (Whau_2)	Middle Whangaehu (Whau_2)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
Lower Whangaehu (Whau_3)	Lower Whangaehu (Whau_3a)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2	30
	Upper Makotuku (Whau_3b)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Lower Makotuku (Whau_3c)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Upper Mangawhero (Whau_3d)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Lower Mangawhero (Whau_3e)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	25	100	0.400	2.1	95	2	30
	Makara (Whau_3f)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	25	120	0.320	1.7	99	3	20
Coastal Whangaehu (Whau_4)	Coastal Whangaehu (Whau_4)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
Turakina (Tura_1)	Upper Turakina (Tura_1a)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Lower Turakina (Tura_1b)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Ratana (Tura_1c)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Ōhau (Ohau_1)	Upper Ōhau (Ohau_1a)	7 to 8.2	0.5	19	2	80	1.5	5	50	0.006	0.070	15	120	0.320	1.7	99	3	20
	Lower Ōhau (Ohau_1b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.110	20	100	0.400	2.1	95	2.5	30
Owahanga (Owha_1)	Owahanga (Owha_1)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
East Coast (East_1)	East Coast (East_1)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
Ākitio (Akit_1)	Upper Ākitio (Akit_1a)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Lower Ākitio (Akit_1b)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
	Waihi (Akit_1c)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
Northern Coastal (West_1)	Northern Coastal (West_1)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Kai Iwi (West_2)	Kai Iwi (West_2)	7 to 8.5	0.5	22	3	70	2	5	200	0.015	0.167	25	100	0.400	2.1	95	1.6	30
Mōwhānau (West_3)	Mōwhānau (West_3)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Kaitoke Lakes (West_4)	Kaitoke Lakes (West_4)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Southern Whanganui Lakes (West_5)	Southern Whanganui Lakes (West_5)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Northern Manawatū Lakes (West_6)	Northern Manawatū Lakes (West_6)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Waitarere (West_7)	Waitarere (West_7)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Lake Papaitonga (West_8)	Lake Papaitonga (West_8)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
Waikawa (West_9)	Waikawa (West_9a)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.167	20	100	0.400	2.1	95	2.5	30

Water Management Area*	Sub-area*	pH		Temp (°C)		DO (%SAT)	scBOD ₅ (g/m ³)	POM (g/m ³)	Periphyton	DRP (g/m ³)	SIN (g/m ³)	Deposited Sediment Cover (%) ₂	MCI	Ammoniacal Nitrogen (g/m ³)		Tox.	Visual Clarity (m)	
		Range	Δ	<	Δ	>	<	<	Chla (mg/m ²)	<	<	≤	>	<	Max	%	< 50 th %ile	%Δ
	Manakau (West_9b)	7 to 8.5	0.5	22	3	70	2	5	120	0.010	0.167	20	100	0.400	2.1	95	2.5	30
Lake Horowhenua (Hoki_1)	Lake Horowhenua (Hoki_1a)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30
	Hokio (Hoki_1b)	7 to 8.5	0.5	24	3	60	2	5	200	0.015	0.167	25	100	0.400	2.1	95	2.5	30

Table 42 - Additional *Water Quality Targets (or standards where specified under conditions/standards/terms in a rule) that apply 1 May to 30 September (inclusive) to all Specified Sites/Reaches of Rivers* with a Trout Spawning (TS) Value**

Temp (°C)		DO (%SAT)	Deposited Sediment or POM	Deposited Sediment Cover (%)	Toxicants (%)
<	Δ	>	Δ ³	< ⁴	
11	2	80	No measurable increase of deposited sediment or particulate organic matter (POM) on the <i>bed</i> [^] of the <i>river</i> [^]	10	99

³ The Deposited Sediment or POM *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) is only relevant for measuring the change in deposited sediment in relation to a resource consent application for rivers valued for Trout Spawning. Measurements should be undertaken using the deposited sediment protocols of Clapcott et al., (2010).

⁴ The Deposited Sediment Cover (%) *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) only applies for State of the Environment monitoring purposes to determine if the percentage cover of deposited sediment on the *bed*^{*} of the * will provide for and maintain the values in each WMSA.

Table 43 - Lake* Water Quality Targets* (or standards where specified under conditions/standards/terms in a rule) (Note: Lake* Water Quality Targets* (or standards where specified under conditions/standards/terms in a rule) apply year-round to the waters* of types of lakes* not excluded by RP-SCHED6 Table F.2(b) v to vii)

Lake* Type	Algal Biomass Chla (mg/m ³)		TP (g/m ³)	TN (g/m ³)	Ammoniacal Nitrogen (g/m ³)	Tox.	Visual Clarity (m)		Euphotic Depth	E. coli / 100 ml	
	<	Max.	<	<	< ⁵	%	>	%Δ	%Δ	Summer (1 Nov – 30 Apr)	Winter (1 May – 31 Oct)
Deep lakes* (≥ 5 m deep)	5	15	0.020	0.337	0.400	95	2.8	20	10	260	550
Shallow lakes* (< 5 m deep)	8	30	0.030	0.490	0.400	95	0.8	20	10	260	550

⁵ Water Quality Target* (or standard where specified under conditions/standards/terms in a rule) only applies when lake* pH exceeds 8.5 within the epilimnion (shallow lakes*) or within 2 m of the water surface (deep lakes*).

Table 44 - Water Quality Targets* (or standards where specified under conditions/standards/terms in a rule) Key: Definition of abbreviations and full wording of the water quality targets* (or standard where specified under conditions/standards/terms in a rule (placement of the numerical values for a specified water quality target* (or standard where specified under conditions/standards/terms in a rule) are indicated by [...]).

Abbreviations used in Tables 40 to 43		Full Wording of the <i>Water Quality Target</i> (or standard where specified under conditions/standards/terms in a rule).
Header	Sub-header	
pH	Range	The pH of the <i>water*</i> must be within the range [...] to [...] unless natural levels are already outside this range.
	Δ	The pH of the <i>water*</i> must not be changed by more than [...].
Temp(°C)	<	The temperature of the <i>water*</i> must not exceed [...] degrees Celsius.
	Δ	The temperature of the <i>water*</i> must not be changed by more than [...] degrees Celsius.
DO (%SAT)	>	The concentration of dissolved oxygen (DO) must exceed [...] % of saturation.
sCBOD ₅ (g/m ³)	<	The monthly average five-days filtered / soluble carbonaceous biochemical oxygen demand (sCBOD ₅) when the <i>river*</i> flow is at or below the 20th flow exceedance percentile* must not exceed [...] grams per cubic metre.
POM (g/m ³)	<	The average concentration of particulate organic matter when the <i>river*</i> flow is at or below the 50th flow exceedance percentile* must not exceed [...] grams per cubic metre.
Periphyton (<i>river*</i>)	Chla(mg/m ²)	The algal biomass on the <i>river* bed*</i> must not exceed [...] milligrams of chlorophyll a per square metre.
	% cover	The maximum cover of visible <i>river* bed*</i> by periphyton as filamentous algae more than 2 centimetres long must not exceed [...]%. The maximum cover of visible <i>river* bed*</i> by periphyton as diatoms or cyanobacteria more than 0.3 centimetres thick must not exceed [...]%.
Algal biomass Chla (mg/m ³) (<i>lakes*</i>)	<	The annual average algal biomass must not exceed [...] milligrams chlorophyll a per cubic metre.
	Maximum	Samples must not exceed [...] milligrams chlorophyll a per cubic metre.
DRP(g/m ³)	<	The annual average concentration of dissolved reactive phosphorus (DRP) when the <i>river*</i> flow is at or below the 20th flow exceedance percentile* must not exceed [...] grams per cubic metre, unless natural levels already exceed this <i>Water Quality Target*</i> (or standard where specified under conditions/standards/terms in a rule).
TP (g/m ³) (<i>lakes*</i>)	<	The annual average concentration of total phosphorus (TP) must not exceed [...] grams per cubic metre.
SIN (g/m ³)	<	The annual average concentration of soluble inorganic nitrogen (SIN) ⁶ when the <i>river*</i> flow is at or below the 20th flow exceedance percentile* must not exceed [...] grams per cubic metre, unless natural levels already exceed this <i>Water Quality Target*</i> (or standard where specified under conditions/standards/terms in a rule)
TN (g/m ³) (<i>lakes*</i>)	<	The annual average concentration of total nitrogen must not exceed [...]grams per cubic metre.
Deposited Sediment Cover ⁷	% cover	The maximum cover of visible <i>river* bed*</i> by deposited sediment less than 2 millimetres in diameter must be less than [...] %, unless natural physical conditions are beyond the scope of the application of the deposited sediment protocol of Clapcott et al. (2010).
MCI ⁸	>	The Macroinvertebrate Community Index (MCI) must exceed [...], unless natural physical conditions are beyond the scope of application of the MCI. In cases where the <i>river*</i> habitat is suitable for the application of the soft-bottomed variant of the MCI (sb-MCI) the <i>Water Quality Target*</i> (or standard where specified under conditions/standards/terms in a rule) also apply.
QMCI	%Δ	There must be no more than a 20% reduction in Quantitative Macroinvertebrate Community Index (QMCI) score between appropriately matched habitats upstream and downstream of <i>discharges*</i> to <i>water*</i> .
Ammoniacal nitrogen ⁹ (g/m ³) (<i>river*</i>)	<	The average concentration of ammoniacal nitrogen must not exceed [...]grams per cubic metre.
	Max	The maximum concentration of ammoniacal nitrogen must not exceed [...] grams per cubic metre.
Ammoniacal nitrogen (g/m ³) (<i>lakes*</i>)	<	The concentration of ammoniacal nitrogen must not exceed [...] grams per cubic metre when <i>lake*</i> pH exceeds 8.5 within the epilimnion (shallow <i>lakes*</i>) or within 2m of the <i>water*</i> surface (deep <i>lakes*</i>).
Tox. or Toxicants	%	For toxicants not otherwise defined in these <i>Water Quality Targets*</i> (or standards where specified under conditions/standards/terms in a rule) the concentration of toxicants in the <i>water*</i> must not exceed the trigger values for freshwater defined in the 2000 ANZECC guidelines Table 3.4.1 for the level of protection of [...] % of species. For metals the trigger value must be adjusted for hardness and apply to the dissolved fraction as directed in the table.
Visual Clarity (m) (<i>river*</i>)	% Δ	The visual clarity of the <i>water*</i> measured as the horizontal sighting range of a black disc must not be reduced by more than [...] %.
	>	The visual clarity of the <i>water*</i> measured as the horizontal sighting range of a black disc must equal or exceed [...] metres when the <i>river*</i> is at or below the 50thflow exceedance percentile*.
Visual Clarity (m) (<i>lakes*</i>)	% Δ	The visual clarity of the <i>water*</i> measured as the horizontal sighting range of a black disc must not be reduced by more than [...] %.
	>	The visual clarity of the <i>water*</i> measured as the horizontal sighting range of a black disc must equal or exceed [...] metres.
E. coli / 100 ml (<i>river*</i>)	< m	The concentration of Escherichia coli must not exceed [...] per 100 millilitres 1 November - 30 April (inclusive) when the <i>river*</i> flow is at or below the 50thflow exceedance percentile*.
	<20th %ile	The concentration of Escherichia coli must not exceed [...] per 100 millilitres year round when the <i>river*</i> flow is at or below the 20thflow exceedance percentile*.
E. coli / 100 ml (<i>lakes*</i>)	Summer	The concentration of Escherichia coli must not exceed [...] per 100 millilitres 1 November - 30 April (inclusive).
	Winter	The concentration of Escherichia coli must not exceed [...] per 100 millilitres 1 May - 31 October (inclusive).
Euphotic Depth (<i>lakes*</i>)	% Δ	Euphotic depth must not be reduced by more than [...] %.

⁶ Soluble inorganic nitrogen (SIN) concentration is measured as the sum of nitrate nitrogen, nitrite nitrogen, and ammoniacal nitrogen or the sum of total oxidised nitrogen and ammoniacal nitrogen.
⁷ The Deposited Sediment Cover (%) *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) only applies for State of the Environment monitoring purposes to determine if the percentage cover of deposited sediment on the *bed** of the *river** will provide for and maintain the values in each WMSA. The *effects** of deposited sediment on the *bed** of *river** in relation to resource consent applications should be determined using the deposited sediment protocols of Clapcott et al. (2010).
⁸ The Macroinvertebrate Community Index (MCI) *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) applies only for State of the Environment monitoring purposes to determine if the aquatic macroinvertebrate communities are adequate to provide for and maintain the values in each WMSA. This *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) is not appropriate for monitoring the *effect** of activities such as *discharges** to *water** on macroinvertebrate communities upstream and downstream of the activity.
⁹ Ammoniacal nitrogen is a component of SIN. SIN *Water Quality Target** (or standard where specified under conditions/standards/terms in a rule) should also be considered when assessing ammoniacal nitrogen concentrations against the *Water Quality Target** or standard where specified under conditions/standards/terms in a rule.



