# **Appendix 5**

# Water Resource Unit Values & Water Quality Classification Standards

### **Abbreviations**

A aesthetic AE aquatic ecosystem C cultural

CR contact recreation F fisheries FS fish spawning

NS natural state SG shellfish gathering WS water supply

### Schedule 1 - Water Resource Unit Values

No.	Water Resource Unit	Values	Water Quality Classifications
1	Acheron (includes	Fish habitat	AE, FS, F, A
	Fish lake in the Wairau River catchment)	Alpine Galaxias, dwarf galaxias, koaro, northern flathead galaxias, longfin eel, shortfin eel, tarndale bully and upland bully habitat. Only known habitat for tarndale bully. Brown trout/salmon spawning.	
		Bird Habitat	
		Wetland species, black-fronted terns, southern crested grebe, and banded dotterel. Paradise shelduck moulting site. Braided river birds.	
		Aquatic Macrophytes	
		Intact indigenous aquatic macrophytes community.	
		Recreation	
		Waterfowl hunting, fishing, canoeing, rafting and passive recreation.	
		Public Access	
		Large areas of catchment administered by Department of Conservation (DOC) but subject to lease constraints.	
		Natural Character	
		High.	
		Significant Wetlands	
		Tarndale Lakes - nationally significant wetlands complex.	

No.	Water Resource Unit	Values	Water Quality Classifications
2	Cullens/Linkwater Complex	Fish Habitat  Banded kokopu, shortjaw kokopu, red fin bully, common bully, īnanga, longfin eel and shortfin eel habitat.  Invertebrate Habitat  Kōura habitat.  Riparian Habitat  Intact indigenous forest in upper catchment. Coastal wetlands.	AE, FS
3	Anakoha	Fish Habitat  Banded kokopu, shortjaw kokopu, dwarf galaxias, īnanga, giant kokopu, koaro, longfin eel and redfin bully habitat.  Riparian Habitat  Intact indigenous forest in upper catchment. Coastal wetland.	AE, FS
4	Are Are	Fish Habitat Black flounder, common bully, īnanga, lamprey, longfin eel, redfin bully, upland bully and shortfin eel habitat. High species diversity. Juvenile trout habitat. Invertebrate Habitat High numbers of kõura.	AE, FS
5	Avon	Fish Habitat  Northern flathead galaxias, koaro, longfin eel and upland bully habitat. Landlocked koaro in Lake Alexander. Trout and eels absent from Lake Alexander. Brown trout spawning in rivers and streams.  Invertebrate Habitat  Subterranean amphipods habitat in Lake Alexander outlet. Kōura Habitat in rives and streams.  Riparian Habitat  Pink and weeping broom in riparian margins. Indigenous vegetation in upper catchment and surrounding Lake Alexander.  Recreation  Walking access to Lake Alexander.  Natural Character  High.	AE, FS, A  (the A classification only applies to the Tummel River upstream of 1655960E 5381760N and Lake Alexander)

No.	Water Resource Unit	Values	Water Quality Classifications
6	Awatere - Lower	Fish Habitat	AE, FS, F
		Inanga, common bully, upland bully, giant bully, bluegill bully, torrentfish, longfin eel and shortfin eel habitat. Inanga spawning in coastal lagoon. Brown trout habitat.	
		Bird Habitat	
		Banded dotterel, black-fronted dotterel and black-fronted terns. Braided river birds. Paradise shelduck moulting on Lake Jasper.	
		Riparian Habitat	
		Wetland vegetation surrounding Lake Jasper.	
		Recreation	
		Fishing and whitebaiting.	
7	Awatere - Upper	Fish Habitat	AE, FS
		Northern flathead galaxias, koaro, upland bully and longfin eel habitat. Brown trout habitat.	
		Bird Habitat	
		Black-fronted tern.	
		Recreation	
		Molesworth Recreational Reserve. Upland game hunting.	
		Public Access	
		Large areas of catchment administered by DOC but subject to lease constraints. Access track to the Hodder huts and Mt Tapuaenuku via private land and Hodder River.	
		Natural Character	
		Very high.	
		Riparian Habitat	
		Largest population of northern pink broom in Marlborough – Riparian Margins Grey River.	
8	Bartletts	Fish Habitat	AE, FS, F, CR
		Dwarf galaxias, longfin eel, shortfin eel and upland bully habitat. Dwarf galaxias spawning. Brown trout spawning.	
		Riparian Habitat	
		Indigenous vegetation in upper catchment.	
		Recreation	
		Swimming and fishing.	

No.	Water Resource Unit	Values	Water Quality Classifications
9	Black Birch	Fish Habitat	AE, FS, WS
		Torrentfish, northern flathead galaxias, upland bully redfin bully and longfin eel habitat. Brown trout spawning.	
		Invertebrate Habitat	
		Kõura Habitat.	
		Riparian Habitat	
		Large proportion of riparian vegetation is indigenous.	
		Public Access	
		Access to DOC administered land via stream bed only.	
		Water supply catchment	
		Seddon municipal.	
10	Blenheim Springs	Fish Habitat	AE, FS, A
	, ,	Banded kokopu, giant kokopu, lamprey, common bully, upland bully, longfin eel and shortfin eel habitat. Brown trout habitat.	, ,
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat. Subterranean aquatic macroinvertebrates habitat in spring outlets.	
		Aquatic Macrophytes	
		Largest population of the indigenous <i>Potomogeoton</i> cheesemannii on the Wairau Plain.	
		Recreation	
		Pollard park, duck feeding, children playing and picnicking.	
		Aesthetic	
		Water clarity.	
11	Blind River	Fish Habitat	AE, FS
		Banded kokopu, common bully, upland bully, longfin eel and shortfin eel are present.	
		Bird Habitat	
		Coastal lagoon habitat for banded dotterel, black shag. New Zealand scaup and other waterfowl.	
		Invertebrate Habitat	
		Shield shrimp habitat in ephemeral pools. Kõura Habitat.	
		Riparian Habitat	
		Red rock daisy and other threatened species in upper gorges.	
		Recreation	
		Waterfowl hunting.	

No.	Water Resource Unit	Values	Water Quality Classifications
12	Boundary Creek	Fish Habitat	AE, FS
	Complex	Dwarf galaxias, īnanga, bluegill bully, common bully, upland bully, black flounder, longfin and shortfin eel habitat. Brown trout spawning.	
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat.	
		Riparian Habitat	
		Teucridium parvifolium and Urtica linearifolia habitat.	
		Bird Habitat	
		Black-fronted tern feeding habitat.	
13	Branch (including	Fish Habitat	AE, FS, F
	Lake Argyle)	Alpine galaxias, dwarf galaxias, koaro, northern flathead galaxias, upland bully, longfin and shortfin eel habitat. Brown and rainbow trout habitat. Brown trout spawning.	
		Bird Habitat	
		Black-fronted tern feeding habitat. Shag and waterfowl habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
		Recreation	
		Highly valued trout fishery. Back country experience. Waterskiing, fishing and model boating.	
		Natural Character	
		Very high (Leatham River and Branch River upstream of weir).	
		Hydro Electric Generation	
14	Centre Valley	Fish Habitat	AE, FS
	Complex	Common bully, upland bully, longfin eel, and shortfin eel habitat.	

	Water Resource Unit	Values	Water Quality Classifications
15	Clarence	Fish habitat	AE, FS, F, A
		Northern flathead galaxias, dwarf galaxias, koaro and longfin eel habitat. Brown trout/salmon spawning.	
		Bird Habitat	
		Wetland species, black-fronted terns and southern crested grebe. Paradise shelduck moulting site. Braided river birds.	
		Invertebrate Habitat	
		Freshwater mussels.	
		Aquatic Macrophytes	
		Intact indigenous aquatic macrophytes community.	
		Recreation	
		Waterfowl hunting, fishing, canoeing, rafting, jet boating and passive recreation.	
		Public Access	
		Large areas of catchment administered by DOC but subject to lease constraints.	
		Significant Wetlands	
		Lake McRae - nationally important scientific feature.	
16	Coastal Wairau	Fish Habitat	AE, FS
	Complex	Inanga, common bully, upland bully, longfin eel and shortfin eel habitat. Inanga spawning habitat.	
		Bird Habitat	
		Bittern and waterfowl habitat.	
		Riparian Habitat	
		Urtica linearifolia habitat. Significant indigenous wetland vegetation in Rarangi dune system.	
		Recreation	
		Waterfowl hunting, whitebaiting.	
17	Doctors	Fish Habitat	AE, FS
		Īnanga, common bully, upland bully, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat.	
18	East Coast Complex	Fish Habitat	AE, FS
		Common Bully and shortfin eel habitat.	
		Bird Habitat	
		Coastal wetlands habitat for New Zealand scaup and marsh crake.	
		Riparian Habitat	
		Willow free coastal wetland communities. Remnant indigenous species along streams.	

Fish Habitat Inanga, upland bully and shortfin eel habitat.  Fish Habitat Black flounder, common bully, bluegill bully, upland bully, giant bully, Inanga, longfin eel and shortfin eel habitat. Bird Habitat Lake Elterwater habitat for pied stilts, dabchick, shags, paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation Whitebaiting, gamebird hunting. Water supply catchment Private community supplies.  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.	No.	Water Resource Unit	Values	Water Quality
Tinanga, upland bully and shortfin eel habitat.				Classifications
Fish Habitat Black flounder, common bully, bluegill bully, upland bully, giant bully, inanga, longfin eel and shortfin eel habitat. Bird Habitat Lake Elterwater habitat for pied stilts, dabchick, shags, paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation Whitebaiting, gamebird hunting. Water supply catchment Private community supplies.  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Köura habitat Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  AE, FS, F, NS, A AE, FS AE, F	19	Fairhall	Fish Habitat	AE, FS
Black flounder, common bully, bluegill bully, upland bully, glant bully, inanga, longfin eel and shortfin eel habitat.  Bird Habitat  Lake Elterwater habitat for pied stilts, dabchick, shags, paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation  Whitebaiting, gamebird hunting.  Water supply catchment Private community supplies.  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Īnanga, upland bully and shortfin eel habitat.	
giant bully, īnanga, longfin eel and shortfin eel habitat.  Bird Habitat  Lake Elterwater habitat for pied stilts, dabchick, shags, paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation  Whitebaiting, gamebird hunting.  Water supply catchment Private community supplies.  Fish Habitat  Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present.  Invertebrate Habitat  Kõura habitat  Riparian Habitat  Fault associated wetlands.  Recreation  Waterfowl hunting.  22 Goulter  Fish Habitat  Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat  Intact indigenous forest in upper catchment.  Recreation  Regionally significant brown trout fishery and tramping.  Natural Character  Very high.  AE, FS	20	Flaxbourne	Fish Habitat	AE, FS, WS
Lake Elterwater habitat for pied stilts, dabchick, shags, paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation Whitebaiting, gamebird hunting. Water supply catchment Private community supplies.  21 Gibsons Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.				
paradise shelduck, grey teal and waterfowl. Paradise duck moulting area.  Recreation Whitebaiting, gamebird hunting. Water supply catchment Private community supplies.  21 Gibsons  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Bird Habitat	
Whitebaiting, gamebird hunting.  Water supply catchment Private community supplies.  Pish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat Fault associated wetlands. Recreation Waterfowl hunting.  Pish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  Pish Habitat Shortkaw kokopu, banded kokopu, Tanaga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			paradise shelduck, grey teal and waterfowl. Paradise	
Water supply catchment Private community supplies.  21 Gibsons  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Recreation	
Private community supplies.  21 Gibsons  Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present. Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Whitebaiting, gamebird hunting.	
Fish Habitat Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present.  Invertebrate Habitat Kõura habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally signifficant brown trout fishery and tramping. Natural Character Very high.  23 Graham Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Water supply catchment	
Inanga, common bully, lamprey, longfin eel and shortfin eel habitat. Brown trout present.  Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  AE, FS  AA  AE, FS  AF, S, NS, A  A  AE, FS  Riparian Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Private community supplies.	
eel habitat. Brown trout present.  Invertebrate Habitat Kõura habitat. Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.	21	Gibsons	Fish Habitat	AE, FS
Köura habitat.  Riparian Habitat Fault associated wetlands.  Recreation Waterfowl hunting.  22 Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.				
Riparian Habitat Fault associated wetlands. Recreation Waterfowl hunting.  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River. Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  Z3 Graham Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Invertebrate Habitat	
Fault associated wetlands.  Recreation Waterfowl hunting.  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.			Kōura habitat.	
Recreation Waterfowl hunting.  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment. Recreation Regionally significant brown trout fishery and tramping. Natural Character Very high.  Z3 Graham Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.			Riparian Habitat	
Goulter  Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  Z3 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, Tnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.			Fault associated wetlands.	
Fish Habitat Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  Z3 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.			Recreation	
Koaro and upland bully habitat. Landlocked population of koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  AE, FS  Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.			Waterfowl hunting.	
koaro in Lake Chalice scientifically important. Brown trout spawning in Goulter River.  Riparian Habitat Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.	22	Goulter	Fish Habitat	AE, FS, F, NS,
Intact indigenous forest in upper catchment.  Recreation Regionally significant brown trout fishery and tramping.  Natural Character Very high.  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.			koaro in Lake Chalice scientifically important. Brown trout	A
Regionally significant brown trout fishery and tramping.  Natural Character Very high.  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.				
Regionally significant brown trout fishery and tramping.  Natural Character  Very high.  Fish Habitat  Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat  Intact indigenous forest in upper catchment.				
Natural Character Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat. Riparian Habitat Intact indigenous forest in upper catchment.				
Very high.  23 Graham  Fish Habitat Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.				
Shortkaw kokopu, banded kokopu, īnanga, common bully, bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.				
bluegill bully, redfin bully, dwarf galaxias, longfin eel and shortfin eel habitat.  Riparian Habitat Intact indigenous forest in upper catchment.	23	Graham		AE, FS
Intact indigenous forest in upper catchment.			bluegill bully, redfin bully, dwarf galaxias, longfin eel and	
			Riparian Habitat	
Natural Character			Intact indigenous forest in upper catchment.	
			Natural Character	
High.			High.	

No.	Water Resource Unit	Values	Water Quality Classifications
24	Grovetown	Fish Habitat	AE, FS
		Īnanga, giant kokopu, common bully, upland bully, black flounder, longfin eel and shortfin eel habitat. Brown trout present.	
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat.	
		Bird Habitat	
		Grey duck, Australasian shoveler, New Zealand scaup, paradise shelduck, black swan, shag, kotuku, pukeko, white-faced heron and spotless crake habitat. Paradise shelduck and black swan moulting area.	
		Aquatic Macrophytes	
		The uncommon native submerged marcophyte  Potamogeton orchreatus is present.	
		Riparian Habitat	
		Indigenous vegetation restoration project around Grovetown Lagoon. <i>Urtica linearifolia</i> habitat.	
		Recreation	
		Food gathering, waterfowl hunting, canoeing.	
25	Kaituna	Fish Habitat	AE, FS, F
		Dwarf galaxias, upland bully and longfin eel habitat. Brown trout spawning.	
		Bird Habitat	
		Wildfowl habitat.	
		Recreation	
		Wildfowl hunting, fishing.	
26	Kaiuma	Fish Habitat	AE, FS
		Common bully, banded kokopu and longfin eel habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment. Swamp Maire in riparian margin.	
		Recreation	
		Waterfowl hunting.	
27	Kenepuru	Fish Habitat	AE, FS
		Dwarf galaxias, īnanga, bluegill bully, giant bully, redfin bully, common smelt and longfin eel habitat.	
		Bird Habitat	
		Weka habitat in riparian margins.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment. Patches of indigenous riparian vegetation in lower reaches.	
		Natural Character	
		High.	

No.	Water Resource Unit	Values	Water Quality Classifications
28	Medway	Fish Habitat	AE, FS
		Dwarf galaxias, upland bully, torrentfish, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Riparian Habitat	
		Pink broom and other indigenous species present.	
		Recreation	
		Upland game hunting.	
29	Northbank Complex	Fish Habitat	AE, FS
		Īnanga, koaro, dwarf galaxias, common bully, redfin bully, upland bully, torrentfish, lamprey, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
30	Ōhinemahuta	Fish Habitat	AE, FS, F, CR
	(previously Onamalutu)	Giant kokopu, common bully, redfin bully, bluegill bully, upland bully and longfin eel habitat. Brown trout spawning.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
		Recreation	
		Swimming, fishing and recreational reserve.	
		Natural Character	
		High.	
31	Omaka	Fish Habitat	AE, FS
		Upland bully and longfin eel habitat. Brown trout spawning.	
		Riparian Habitat	
		Indigenous species in upper catchment.	
		Recreation	
		Upland game and waterfowl hunting.	
		Natural Character	
		Very high (above Tyntesfield Road).	
32	Opouri	Fish Habitat	AE, FS, F
		Dwarf galaxias, upland bully and longfin habitat. Brown and rainbow trout habitat. Brown trout spawning.	
		Riparian Habitat	
		Lowland podocarp riparian margins. Intact indigenous forest in upper catchment. <i>Leptinella nana</i> habitat.	
		Recreation	
		Fishing and gamebird hunting.	

		Values	Water Quality Classifications
33 (	Ōpaoa - Lower	Fish Habitat	AE, FS, F, CR
(	(previously Opawa)	Īnanga, common bully, giant bully, upland bully, black flounder, yelloweye mullet, grey mullet, longfin and shortfin eel habitat. Īnanga spawning habitat. Brown trout habitat.	
		Bird Habitat	
		Royal spoonbill, fernbird, kotuku, crake and waterfowl habitat.	
		Riparian Habitat	
		Indigenous coastal riparian margins. Riparian enhancement occurring in selected locations.	
		Recreation	
		Swimming, canoe/kayaking, whitebaiting, fishing, gamebird hunting and boating.	
34 (	Ōpaoa – Upper	Fish Habitat	AE, FS, F, CR
(	(previously Opawa)	Īnanga, black flounder, upland bully, common bully, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Bird Habitat	
		Kotuku, bittern and waterfowl habitat.	
		Recreation	
		Canoe/kayaking, boating, whitebaiting, fishing, swimming and gamebird hunting.	
35 F	Patriarch	Bird Habitat	AE, FS
		Black-fronted tern feeding habitat.	
		Riparian Habitat	
		River terrace wetlands.	
		Recreation	
		Gamebird hunting.	
36 F	Pelorus / Te Hoiere -	Fish Habitat	AE, FS, F, CR
[	Lower	Banded kokopu, inanga, dwarf galaxias, bluegill bully, common bully, giant bully, redfin bully, upland bully, grey mullet, longfin eel and shortfin eel habitat. Brown and rainbow trout habitat. Brown trout spawning in tributaries.	
		Bird Habitat	
		Banded rail, fernbird and waterfowl habitat.	
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat.	
		Riparian Habitat	
		Lowland podocarp riparian margins. Estuarine and riverside wetlands.	
		Recreation	
		Swimming, kayaking, fishing and gamebird hunting.	

No.	Water Resource Unit	Values	Water Quality Classifications
37	Pelorus / Te Hoiere -	Fish Habitat	AE, FS, F, CR,
	Upper	Common bully, redfin bully, upland bully, smelt, longfin eel and shortfin eel habitat. Brown and rainbow trout spawning.	NS, A
		Riparian Habitat	
		Intact indigenous forest in upper catchment. Scutellaria habitat.	
		Recreation	
		Swimming, kayaking, tramping and fishing.	
		Natural Character	
		Very high.	
38	Pine Valley	Fish Habitat	AE, FS, CR
		Dwarf galaxias, upland bully, redfin bully, longfin eel and shortfin eel habitat. Brown trout spawning.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
		Recreation	
		Swimming and tramping.	
39	Pukaka	Fish Habitat	AE, FS
		Inanga, dwarf galaxias, common bully, bluegill bully, redfin bully, upland bully, lamprey, longfin eel and shortfin eel habitat. Brown trout spawning.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment. Chaytor Reserve. Swamp maire in riparian. Riparian wetlands.	
		Recreation	
		Tramping.	
40	Rai	Fish Habitat	AE, FS, F, CR
		Dwarf galaxias, bluegill bully, redfin bully, upland bully, torrentfish, lamprey, shortfin eel and longfin eel. Brown and rainbow trout spawning.	
		Invertebrate Habitat	
		Freshwater mussel habitat.	
		Riparian Habitat	
		Lowland podocarp riparian margins. Intact indigenous forest in upper catchment. <i>Leptinella nana</i> habitat.	
		Recreation	
		Swimming, fishing, rafting, kayaking and gamebird hunting.	

No.	Water Resource Unit	Values	Water Quality
110.	Trator Rossaros Sint	74.400	Classifications
41	Ronga	Fish Habitat	AE, FS, F
		Dwarf galaxias, koaro, upland bully, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
		Recreation	
		Fishing.	
42	Seventeen Valley	Fish Habitat	AE, FS
	Complex	Īnanga, common bully, longfin eel and shortfin eel habitat.	
		Bird Habitat	
		Royal spoonbill, wading birds and waterfowl.	
		Recreation	
		Wither Hills Farm Park and gamebird hunting.	
43	Spring Creek	Fish Habitat	AE, FS, F, A
		Īnanga, giant kokopu, banded kokopu, black flounder, common bully, upland bully, lamprey, longfin eel and shortfin eel habitat. Brown and rainbow trout habitat.	
		Invertebrate Habitat	
		Kōura, freshwater mussel and freshwater shrimp habitat.	
		Bird Habitat	
		Shag and waterfowl habitat.	
		Aquatic Macrophytes	
		Potomogeoton cheesemannii in upper reaches of Spring Creek.	
		Riparian Habitat	
		Planting of indigenous plats in the lower reaches.	
		Recreation	
		Kayaking, fishing, gamebird shooting.	
		Aesthetic	
		Water clarity.	

No.	Water Resource Unit	Values	Water Quality Classifications
44	Taylor River	Fish Habitat	AE, FS, F, CR
		Īnanga, koaro, common bully, upland bully, yelloweye mullet, longfin eel and shortfin eel habitat. Brown and rainbow trout habitat.	
		Bird Habitat	
		Taylor Dam habitat for Australian coot, Pukeko, New Zealand scaup, grey teal, kingfisher, marsh crake, Australasian shoveler, black swan, paradise shelduck and waterfowl.	
		Invertebrate Habitat	
		Kōura habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper Branch River.	
		Recreation	
		Swimming, walking, cycling, fishing, Taylor Dam, gamebird hunting.	
45	Timms	Fish Habitat	AE, FS
		Dwarf galaxias, upland bully and longfin eel habitat. Brown trout spawning.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment.	
		Recreation	
		Tramping.	
46	Top Valley	Fish Habitat	AE, FS
		Dwarf galaxias, upland bully, redfin bully and longfin eel habitat. Brown trout spawning.	
		Bird Habitat	
		Grey duck and waterfowl.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment. Top Valley Wildlife Management Reserve.	
		Recreation	
		Gamebird hunting and tramping.	
		Natural Character	
		High.	

Fish Habitat  Inanga, banded kokopu, koaro, common bully, upully, redfin bully, longfin eel and shortfin eel habitat Brown trout spawning.  Bird Habitat Pukeko, grey teal, kingfisher, Australasian shove duck, Australasian bittern and waterfowl.  Invertebrate Habitat Koura and freshwater mussel habitat.  Riparian Habitat Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower Fish Habitat Inanga, common bully, upland bully, torrentfish, longfin eel and shortfin eel habitat. Brown trout leading to the same and shortfin eel habitat.	eler, grey
bully, redfin bully, longfin eel and shortfin eel hat Brown trout spawning.  Bird Habitat Pukeko, grey teal, kingfisher, Australasian shove duck, Australasian bittern and waterfowl.  Invertebrate Habitat Koura and freshwater mussel habitat.  Riparian Habitat Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower  Fish Habitat Tnanga, common bully, upland bully, torrentfish, leading to the provided service of the provided servi	eler, grey
Pukeko, grey teal, kingfisher, Australasian shove duck, Australasian bittern and waterfowl.  Invertebrate Habitat  Koura and freshwater mussel habitat.  Riparian Habitat  Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation  Gamebird hunting.  48 Waihopai - Lower  Fish Habitat  Tinanga, common bully, upland bully, torrentfish, line habitat.	
duck, Australasian bittern and waterfowl.  Invertebrate Habitat  Koura and freshwater mussel habitat.  Riparian Habitat  Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation  Gamebird hunting.  48 Waihopai - Lower  Fish Habitat  Tinanga, common bully, upland bully, torrentfish, line habitat.	
Koura and freshwater mussel habitat.  Riparian Habitat Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower Fish Habitat Tinanga, common bully, upland bully, torrentfish, line habitat.	earifolia
Riparian Habitat Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower Fish Habitat Tinanga, common bully, upland bully, torrentfish, line habitat	varifolia
Riparian Habitat - Wetland vegetation. Urtica line habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower Fish Habitat Tinanga, common bully, upland bully, torrentfish, line habitat.	varifolia
habitat.  Recreation Gamebird hunting.  48 Waihopai - Lower Fish Habitat Thanga, common bully, upland bully, torrentfish, leading to the common bully.	parifolia
Gamebird hunting.  48 Waihopai - Lower Fish Habitat Tinanga, common bully, upland bully, torrentfish, l	, di il oli d
48 Waihopai - Lower Fish Habitat  Tinanga, common bully, upland bully, torrentfish, l	
Īnanga, common bully, upland bully, torrentfish, l	
Īnanga, common bully, upland bully, torrentfish, l	AE, FS, F, CR
Bird Habitat	
Black-fronted tern, banded dotterel and braided in habitat.	iver bird
Recreation	
Swimming, canoeing/kayaking, gamebird hunting fishing.	; and
49 Waihopai - Upper Fish Habitat	AE, FS, F, CR
Northern flathead galaxias, koaro, dwarf galaxias bully and longfin eel habitat. Brown trout spawni	
Riparian Habitat	
Small areas of intact indigenous vegetation. We broom in riparian margins.	eping
Recreation	
Fishing and gamebird hunting.	
50 Waikakaho Fish Habitat	AE, FS
Inanga, black flounder, common bully, upland bu lamprey, shortfin eel and longfin eel habitat. Bro spawning.	-
Riparian Habitat	
Intact indigenous forest in upper catchment.	

No.	Water Resource Unit	Values	Water Quality Classifications
51	Wairau - Upper	<u>Fish</u> Habitat	AE, FS, F
		Dwarf galaxias, koaro, northern flathead galaxias, alpine galaxias, upland bully, lamprey, longfin eel and shortfin eel habitat. Brown trout, rainbow trout and salmon habitat. Brown trout and salmon spawning.	
		Bird Habitat	
		Black fronted tern, fernbird, pied stilt, oyster catcher, banded dotterel, grey duck and paradise shelduck habitat.	
		Riparian Habitat	
		Intact indigenous forest in upper catchment and tributaries. Riparian wetlands.	
		Recreation	
		Kayaking, tramping, nationally significant trout fishery, and gamebird hunting.	
		Natural Character	
		Very high (source to Bull Paddock Stream).	
52	Wairau Lagoon	Fish Habitat	AE, FS, F, C
		Īnanga, yelloweye mullet, shortfin eel and longfin eel habitat.	
		Bird Habitat	
		Terns, shags, banded dotterel, royal spoonbill, and migrant waders. Most diverse number of bird species in Marlborough. Nationally significant area.	
		Riparian Habitat	
		Wetland ecosystems.	
		Recreation	
		Gamebird hunting. Kayaking, kite surfing, fishing, whitebaiting and walking.	
		Cultural	
53	Wairau Plain	Fish Habitat	AE, FS, F
	Tributaries Complex	Īnanga, black flounder, common bully, upland bully, longfin eel and shortfin eel habitat. Brown trout habitat.	
		Invertebrate Habitat	
		Kōura and freshwater mussel habitat.	

No.	Water Resource Unit	Values	Water Quality Classifications
54	Wairau River Bed	Fish Habitat Inanga, dwarf galaxias, black flounder, torrentfish, yelloweye mullet, giant bully, common bully, bluegill bully, upland bully, redfin bully, shortfin and longfin eel. Brown trout, rainbow trout and salmon habitat. Brown trout spawning.	AE, FS, F, CR
		Invertebrate Habitat  Kōura and freshwater mussel habitat.	
		Bird Habitat  Black fronted tern, black-billed gull, pied stilt, oyster catcher, banded dotterel, paradise shelduck, royal spoonbill, kotuku and wildfowl habitat.	
		Riparian Habitat Riverside wetlands.	
		Recreation  Kayaking, rafting, whitebaiting, rowing, swimming, jet boating, water skiing, fishing and gamebird hunting.	
55	Wye	Fish Habitat  Dwarf galaxias, koaro, upland bully, shortfin eel and longfin eel habitat. Brown trout habitat.	AE, FS
		Riparian Habitat Intact indigenous forest in upper catchment.	
		Natural Character High.	
56	Small Coastal Complex	Fish Habitat  Banded kokopu, giant kokopu, koaro, īnanga, dwarf galaxias, common bully, bluegill bully, redfin bully, lamprey, longfin eel and shortfin eel habitat.	AE, FS
57	Small Sounds Streams	Fish Habitat  Banded kokopu, giant kokopu, koaro, īnanga, shortjaw kokopu, dwarf galaxias, common bully, bluegill bully, redfin bully, giant bully, upland bully, torrentfish, common smelt, lamprey, longfin eel and shortfin eel habitat.	AE, FS
		Bird Habitat Weka habitat in riparian margins.	
		Riparian Habitat	
		Indigenous riparian vegetation.	
		Recreation Children playing.	

No.	Water Resource Unit	Values	Water Quality Classifications
58	Waima	Fish Habitat Inanga, black flounder and longfin eel habitat.	AE, FS, A
		Bird Habitat Blue Duck habitat. Braided river birds. Coastal lagoon.	
		Recreation Walking access to Sawcut Gorge. Gamebird hunting.	
		Natural Character High.	
59	Waitohi	Fish Habitat  Banded kokopu, shortjaw kokopu, bluegill bully, redfin bully and longfin eel habitat. Brown trout habitat.	AE, FS, WS
		Riparian Habitat Intact indigenous forest in upper catchment.	
		Recreation	
		Walking	
		Natural Character	
		Very high.	
60	Wakamarina	Fish Habitat Inanga, koaro, shortjaw kokopu, dwarf galaxias, common bully, redfin bully, upland bully, bluegill bully, torrentfish, lamprey, shortfin eel and longfin eel habitat. Brown trout spawning.	AE, FS, CR
		Riparian Habitat Intact indigenous forest in upper catchment.	
		Recreation	
		Swimming, kayaking, fishing and gold mining.	
		Natural Character	
		Very high (upper catchment).	

Other Water Resources	Values	Water Quality Classifications
All Coastal Water	Food gathering	SG
Benmorven Freshwater Management Unit*	Water Supply Individual domestic supplies.	WS
Brancott Freshwater Management Unit*	Water Supply Individual domestic supplies.	WS
Omaka Aquifer Freshwater	Water Supply	WS

Other Water Resources	Values	Water Quality Classifications
Management Unit*	Individual domestic supplies.	
Omaka River Freshwater Management Unit*	Water Supply Woodbourne residential supply. Individual domestic supplies.	ws
Rarangi Shallow Freshwater Management Unit*	Water Supply Individual domestic supplies.	WS
Riverlands Freshwater Management Unit*	Water Supply Riverlands municipal supply. Individual domestic supplies.	WS
Southern Springs Freshwater Management Unit*	Water Supply Individual domestic supplies.	WS
Wairau Aquifer Freshwater Management Unit*	Water Supply Blenheim and Renwick municipal supplies. Individual domestic supplies.	WS

<sup>\*</sup> As mapped on Freshwater Management Unit Map 1.

# **Schedule 2 – Water Quality Classification Standards**

Standard/Parameter	Interpretation of Standard/Parameter				Classification
Aquatic Life	4mg/l. Toxicants	Material (PC concentration the limits (μς 55.00			AE, FS
	Arsenic (As III) Arsenic (As V) Boron	24.00 13.00 370.00	Nitrate (NO <sub>3</sub> N)  Selenium (Total)  Silver	2.40 11.00 0.05	
	Cadmium Chromium (CrVI)	0.20	Zinc Chlorine	8.00	
	Copper Lead Manganese	1.40 3.40 1900.00	Cyanide Hydrogen sulfide	7.00	
Biological Growths	<ul> <li>Bacterial and/or fungal slime growths must not be visible to the naked eye as obvious plumose growths or mats.</li> <li>The daily average carbonaceous BOD<sub>5</sub> due to dissolved organic compounds (i.e. those passing a GF/C filter) must not exceed 2mg/l.</li> <li>Dissolved reactive phosphorus (DRP) must be &lt;0.015mg/l when rivers are at &lt; median flow.</li> <li>Dissolved inorganic nitrogen (DIN) must be &lt;0.444mg/l when rivers are at &lt; median flow.</li> </ul>				AE, FS
Temperature	<ul> <li>The daily maximum temperature must be ≤ 21°C, subject to natural inputs.</li> <li>The natural temperature of the water must not be changed by more than 3°C.</li> </ul>				AE, FS, F
Turbidity	- Turbidity must be Units.	no greater t	han 5.6 Nephelomet	tric Turbidity	AE, FS, CR

Standard/Parameter	Interpretation of Standard/Parameter	Classification
Colour or visual clarity	Hue must not be changed by more than 10 points on the Munsell scale.	AE, FS
	The natural clarity must not be conspicuously changed due to sediment or sediment laden discharge originating from the site of a land disturbance operation.	
	- The change in reflectance must be <50%.	
	Measurements are to be made immediately upstream of the discharge and below the discharge after reasonable mixing.	
Dissolved Oxygen (DO)	- The daily minimum must be ≥0.75mg/l.	AE, FS, F
Deposited Fine Sediment (DFS) – Stoney Bottom Streams	- The DFS cover must be <20%.	AE, FS
Conspicuous oil or grease films, scums or foams, or floatable or suspended materials	grease films, scums or suspended materials must not be produced. or foams, or floatable or suspended	
Objectionable odour	- Objectionable odour must not be emitted.	AE, FS, F
Suitability for consumption by farm animals	- Water must not be rendered unsuitable for consumption by farm animals.	AE, FS, F
Suitability of fish for human consumption	Fish must not be rendered unsuitable for human consumption by the presence of contaminants.	F
Periphyton cover (filamentous algae >20mm long)	- Cover must be <30% when river flow is < median.	F, CR
Macroinvertebrate Community Index (MCI) – Stoney Bottom Streams	Community Index MCI) – Stoney	
Escherichia coli (E. coli)	- Between 1 November and 30 April of the following year mean E. coli levels must be <126/100mL when rivers are at < median flow.	CR
	- At all other times mean <i>E. coli</i> levels must be <260/100mL when rivers are at < median flow.	
	- Between 1 November and 30 April of the following year maximum <i>E. coli</i> levels must be <260/100mL when rivers are at < median flow.	
	- Between 1 November and 30 April of the following year maximum <i>E. coli</i> levels must be <260/100mL when rivers are at < median flow.	

Standard/Parameter	Interpretation of Stan	dard/Para	meter		Classification
Cyanobacteria (mat >3mm thick)	<ul> <li>Between 1 November and 30 April of the following year the seasonal maximum mat must be &lt;20% when river flow is &lt; median.</li> <li>At all other times the must be &lt;50% when river flow is &lt; median.</li> </ul>				CR
Suitability for human consumption	<ul> <li>Water must not be tainted or contaminated so as to make it unpalatable or unsuitable for human consumption after treatment.</li> <li>Water treated by coagulation/filtration/ disinfection shall be able to comply with the Drinking-Water Standards for New Zealand 2005 (revised 2008).</li> </ul>				WS
Suitability for treatment	<ul> <li>Water must not be rendered unsuitable for treatment (equivalent to coagulation, filtration, and disinfection) by presence of contaminants.</li> <li>The maximum turbidity limit, except that produced naturally under flood conditions, must not exceed 20 Nephelometric Turbidity Units (NTU) when rivers are at &lt; median flow.</li> </ul>				WS
рН	- The pH range mus	t be from 6	.0 to 9.0.		WS
Biological Growths	<ul> <li>The daily average carbonaceous BOD₅ due to dissolved organic compounds (i.e. those passing a GF/C filter) must not exceed 2mg/l.</li> <li>Phytoplankton chlorophyll-a must be &lt;0.02mg/l when rivers are at &lt; median flow.</li> </ul>				WS
Toxicants	Toxicants				NS
			g/l <sup>-1</sup> ) in the following li		
	Aluminium (pH>6.5)	27.00	Mercury (inorganic)	0.06	
	Arsenic (As III)	1.00	Nickel	8.00	
	Arsenic (As V)	0.80	Selenium (Total)	5.00	
	Boron	90.00	Silver	0.02	
	Cadmium	0.06	Zinc	2.40	
	Chromium (CrVI)	0.01	Chlorine	0.40	
	Copper	1.00	Cyanide	4.00	
	Lead	1.00	Hydrogen sulfide	0.50	
	Manganese	1200.00	1		
Colour or visual clarity	Measurements are to be made immediately upstream of the discharge and below the discharge after reasonable mixing.				A
	<ul> <li>Hue must not be changed by more than 5 points on the Munsell scale.</li> <li>Turbidity must be no greater than 1.5 Nephelometric Turbidity</li> </ul>				
Temperature	<ul> <li>Units.</li> <li>The natural temperature of the water must not be changed by more than 3°C.</li> </ul>				SG

Standard/Parameter	Interpretation of Standard/Parameter	Classification
Dissolved Oxygen	- Must exceed 80% of saturation or 6mg/l, whichever is greater.	SG
Suitability of fish for human consumption	<ul> <li>Must not be rendered unsuitable by the presence of contaminants.</li> <li>Median faecal coliform content of samples taken over a shellfish gathering season must not exceed a Most Probable Number (MPN) of 14 per 100ml, and not more than 10% of samples must exceed an MPN of 43 per 100ml (or Colony Forming Units per 100ml).</li> </ul>	SG