

1. Schedule of natural and human use values of Otago's surface water bodies

This schedule identifies some of the natural and human use values of Otago's lakes and rivers. These are the characteristics of a water body which are important to, or are an essential part of, ecological communities, or are enjoyed or utilised by people and communities. The values are identified by geographic subregion and by individual water bodies, or groups of water bodies, within each subregion (see Maps A1-A8 for subregions).

The identification of natural and human use values supported by Otago's lakes and rivers provides a mechanism for recognising the existence of values which need to be taken into account and given appropriate protection in managing water use and land use activities (see Policy 5.4.2). The opportunity to provide such protection will arise when preparing or reviewing regional and district plans under the Resource Management Act, and when considering applications for resource consents.

This schedule of natural and human use values is divided into five parts:

- (a) Schedule 1A: Natural values (page 20-6);
- (aa) Schedule 1AA: Otago Resident Native Freshwater Fish – Threat Status (page 20-47)
- (b) Schedule 1B: Water supply values (page 20-48);
- (c) Schedule 1C: Registered historic places (page 20-51);
- (d) Schedule 1D: Spiritual and cultural beliefs, values and uses of significance to Kai Tahu (page 20-53).

The natural values identified in Schedule 1A are specifically related to Part II of the Resource Management Act but are limited to the attributes of the aquatic ecosystem that support indigenous flora and fauna, trout and salmon, and the regionally significant presence of gamebirds. The outstanding features and landscapes relate to those in Part II of the Act or those identified in the Water Conservation (Kawarau) Order, which this Plan recognises.

Natural and human use values are not limited to those characteristics identified in the schedule. The natural character and amenity values of lakes and rivers are also important natural and human use values, which are given particular regard to by Policies 5.4.8 and 5.4.9. The non-listing of values in Schedule 1A is not to be taken as meaning that an area, value or habitat is not important or worthy of protection.

Some water bodies may be wholly or partly wetland, with regionally significant wetland values. These water bodies may be identified in Schedule 9.

This schedule is not intended to represent a comprehensive or exhaustive list of natural and human use values. It contains information available during the preparation process of this Plan. There is now additional information available for many water bodies, however there may still be lakes or rivers for which there is no

SCHEDULE 1: NATURAL AND HUMAN USE VALUES OF
OTAGO'S SURFACE WATER BODIES

or insufficient information. Water bodies not included in the schedule, but in close proximity to those that have values identified, may share similar values.

Conversely, identification of a particular value for a river does not necessarily mean that value occurs at every point throughout that river. Identification does, however, provide a starting point, in identifying what values are expected to occur.

1A Schedule of natural values

The following schedule identifies natural values supported by Otago’s lakes and rivers. These include ecosystem values, outstanding natural features and landscapes, areas of significant indigenous vegetation and significant habitat of indigenous fauna, and areas with a high degree of naturalness.

The areas of significant indigenous vegetation and significant habitat of indigenous fauna are included where they meet criteria under Policy 10.5.2 of the Regional Policy Statement for Otago. Other scheduled values are established to provide certainty and to meet the requirements of the Objectives and Policies in Chapter 6 of the Regional Policy Statement for Otago.

The values are identified by geographic subregion and by individual water bodies, or groups of water bodies, within each subregion (see Maps A1–A8 for subregions).

Note the codes for ecosystem values in Column 2 of Schedule 1A are given in Table 3.

Table 3: Codes for ecosystem values supported by lakes and rivers

Ecosystem Value	Code	Explanation
Physical Characteristics		
Size	Psize	Large water bodies supporting high numbers of particular species, or habitat variety, which can provide for diverse life cycle requirements of a particular species, or a range of species.
Unimpeded access	Ppass	Access within the main stem of a catchment through to the sea or a lake unimpeded by artificial means, such as weirs, and culverts.
Substrata: Macrophyte Boulder Gravel Sand Silt/mud Bedrock	Pplant Pboulder Pgravel Psand Psilt Prock	Refers to the bed composition of importance for resident biota.
Habitat Characteristics		
Spawning areas	Hspawn	Refers to presence of significant fish spawning areas: (t)=trout; (s)=salmon.
Juvenile rearing areas	Hjuve	Refers to presence of significant areas for development of juvenile fish: (t)=trout; (s)=salmon.
Riparian vegetation	Hriparian	Refers to presence of riparian vegetation of significance to aquatic habitats.

SCHEDULE 1A: NATURAL VALUES

Ecosystem Value	Code	Explanation
Freedom from biological nuisances	Exoticfree Weedfree Willowfree	Refers to absence of: exotic species of fish; aquatic pest plants (eg Lagarosiphon) identified in the Pest Management Strategy for Otago 2009; Crack willow.
Species Characteristics		
Exotic game fish: trout, salmon	Trout Rtrout Salmon	Refers to significant presence of trout. Refers to regionally significant presence of trout. Refers to significant presence of salmon.
Fishery values: eels	Eel	Refers to significant presence of eels.
Indigenous fish diversity	Fishdiv	Refers to presence of a significant range of indigenous fish species.
Indigenous fish – rare species	Rarefish	Refers to presence of indigenous fish species threatened with extinction.
Indigenous waterfowl diversity	Birddiv	Refers to presence of a significant range of indigenous waterfowl.
Indigenous waterfowl - rare species	Birdrare	Refers to presence of indigenous waterfowl threatened with extinction.
Indigenous Invertebrates diversity	Invdiv	Refers to presence of a significant range of indigenous invertebrates.
Indigenous Invertebrates - rare species	Invrare	Refers to presence of indigenous invertebrates threatened with extinction.
Indigenous- aquatic vegetation	Sigveg	Refers to presence of significant indigenous aquatic vegetation.
Gamebirds	Gbird	Refers to regionally significant presence of gamebirds.

Note that all map references given in Schedule 1A refer to the NZMS 260 series.

SCHEDULE 1A: NATURAL VALUES

North Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Welcome Creek	Hspawn(t), Weedfree, Trout, Salmon. In divid in headwaters			
Unnamed former tributary of the Pacific Ocean a.k.a. Temby Swamp Stream	Ppass, Pgravel, Hspawn(t), Hjuve(t), Trout			
Waiareka Creek	Weedfree, Hspawn (inanga spawning below J42:435586)			
Kakanui River (note, the Kakanui-Kauru Alluvium Aquifer forms an integral part of the water body)	Psize, Ppass, all substrata, Weedfree, Hspawn(t), (inanga spawning below J42:443574), Hjuve, Trout, Eel, Rarefish, Fishdiv. Willowfree, Hriparian upstream of I41:275733. Invrare (North branch) upstream of I41:110675		<i>Significant habitat for longjaw galaxiid and koaro. Significant habitat for lamprey (uncommon in Otago).</i>	A high degree of naturalness above Clifton Falls.
Kauru River	Pgravel, Weedfree, Rarefish, Fishdiv		<i>Significant habitat for longjaw galaxiid.</i>	
Kurinui Creek a.k.a. Big Kuri Creek	Weedfree. Invrare upstream of J42:334392			
Waianakarua River	Ppass, Pgravel, Hjuve, Hriparian, Weedfree, Hspawn (inanga spawning downstream of J42:403485), Rarefish, Fishdiv, Eel		<i>Significant habitat for koaro.</i>	A high degree of naturalness above afforested areas of the catchment.
South Branch Waianakarua	Ppass, Pgravel, Hjuve, Hriparian, Weedfree, Fishdiv. Invrare upstream of J42:305410			
Shag River (Waihemo) (note, the Shag Alluvium Aquifer forms an integral part of the water body)	Psize, Ppass all substrata, Weedfree, Hspawn (inanga spawning below J43:351233), Trout(t), Eel, Rarefish. In divid in mid reaches		<i>Significant habitat for flathead galaxiid and koaro. Significant habitat for lamprey (uncommon in Otago).</i>	
Siberia Creek	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	

SCHEDULE 1A: NATURAL VALUES

North Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Unnamed tributary of the Shag River (Waihemo) a.k.a. Deem Burn	Weedfree, Rarefish		<i>Significant habitat for koaro upstream of I42:224388.</i>	
Pigroot Creek	Pboulder, Hriparian, Weedfree. Invrare upstream of I42:072530			
Happy Valley Creek	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Tipperary Creek	Weedfree, Rarefish		<i>Significant habitat for hybrid galaxiid species.</i>	
Deepdell Creek	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Trotters Creek	Weedfree, Hriparian, Hjuve, Fishdiv, Rarefish. Invrare upstream of J42:330322		<i>Significant habitat for giant kokopu and koaro. Significant habitat for lamprey (uncommon in Otago).</i>	
Pigeon Creek	Weedfree, Hriparian, Hjuve, Fishdiv, Rarefish. Invrare upstream of J42:335339		<i>Significant habitat for giant kokopu.</i>	

SCHEDULE 1A: NATURAL VALUES

Maniototo subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Taieri River upstream of Tiroiti	Psize, Pgravel, Ppass, Hspawn(t&s), Hjuve, Weedfree, Eel, Trout downstream of Paerau weir. Hriparian, Trout, Birddiv, Invdiv, Rarefish upstream of Paerau weir. Invrare upstream of H43:544013, Gbird	<p>a) Deep gorge (Taieri Falls) cut into distinct rocky scarp, schistose landscape, in main stem between H43:110567 and Canadian Flat.</p> <p>b) Deep gorge (Paerau Gorge) cut into distinct rocky scarp, schistose landscape, in main stem from Paerau Reservoir to NZMS 260 H42:369727.</p> <p>c) Scroll plain (Serpentine Flat) consisting of a meandering channel pattern and oxbow lakes and wetlands, from confluence with Bonds Creek to Paerau Reservoir.</p> <p>d) Scroll plain consisting of a meandering channel pattern and oxbow lakes and wetlands, from confluence with Linn Burn to confluence with Shepherds Hut Stream.</p>	<p>Significant habitat for flathead galaxiid, including tributaries upstream of Paerau weir.</p> <p>Significant habitat for lamprey (uncommon in Otago).</p>	
Ailsa Creek	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Bullocky Creek	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Elbow Creek	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Unnamed tributary of the Taieri River at H43:600125	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	

SCHEDULE 1A: NATURAL VALUES

Maniototo subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Horse Burn	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Rock and Pillar Creek	Weedfree, Hspawn, Hjuve, Hriparian, Exoticfree. Invrare upstream of H43:772290			A high degree of naturalness above 900 metres asl.
Styx Creek	Weedfree, Hspawn(t), Hjuve(t), Hriparian, Exoticfree. Invrare upstream of H43:744254			A high degree of naturalness above 900 metres asl.
Logan Burn	Weedfree, Hspawn, Hjuve, Hriparian, Trout			A high degree of naturalness above 900 metres asl.
Shepherds Hut Creek, McHardies Creek and Loganburn Reservoir	Hriparian, Hspawn(t), Hjuve			
Linn Burn	Pboulder, Weedfree, Rarefish. Invrare upstream of H43:603294		<i>Significant habitat for flathead galaxiid.</i>	A high degree of naturalness above 600 metres asl.
Totara Creek	Weedfree, Trout (lower reaches), Rarefish. Invrare upstream of H42:595338		<i>Significant habitat for unidentified galaxiid species.</i>	A high degree of naturalness above 600 metres asl.
Sow Burn	Weedfree, Hspawn, Hjuve, Hriparian, Salmon, Trout			A high degree of naturalness above 900 metres asl.
Cambridge Creek (tributary of the Sow Burn)	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	A high degree of naturalness above 900 metres asl.
Ewe Burn	Hspawn(t), Weedfree, Rarefish, Trout		<i>Significant habitat for roundhead galaxiid.</i>	
Pig Burn	Hspawn, Hjuve, Trout			
Kye Burn	Psize, Ppass, Weedfree, Hriparian, Hspawn(t), Hjuve, Rarefish, Eel, Trout	Areas of old gold sluicing landscapes.	<i>Significant habitat for flathead galaxiid and roundhead galaxiid.</i>	A high degree of naturalness above 900 metres asl.

SCHEDULE 1A: NATURAL VALUES

Maniototo subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Healy Creek	Weedfree, Rarefish, Fishdiv		<i>Significant habitat for unique community of flathead and roundhead galaxiids. Type locality for flathead galaxiid.</i>	
Little Kye Burn	Weedfree, Hspawn(t), Trout, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Swin Burn	Weedfree, Hspawn(t), Hjuve(t), Hriparian, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	

SCHEDULE 1A: NATURAL VALUES

Central Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Clutha River/Mata-Au between Alexandra and Lake Wanaka	Psize, Prock, Pgravel, Hspawn(t&s), Hriparian, Hjuve(t&s), Trout, Eel, Salmon, Rarefish, Birddiv		<i>Significant habitat for flathead galaxiid (tributaries).</i>	
Chapmans Gully	Invrare upstream of G42:237420			A high degree of naturalness above 900 metres asl.
Luggate Creek	Weedfree, Rarefish. Invrare upstream of F40:040924		<i>Significant habitat for koaro.</i>	
Princess Burn	Weedfree. Invrare upstream of F40:064925			
Manuherikia River main stem	Pgravel, Hspawn(t), Hjuve, Hriparian, Weedfree, Eel, Trout. Invdiv in mid reaches. Birdrare above Falls Dam		<i>Significant habitat: Areas of importance to internationally uncommon species - black fronted tern - above Falls Dam.</i>	
Rocks Creek	Weedfree. Invrare upstream of H40:620976			
Unnamed tributary of the Manor Burn at G42:435365	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Chatto Creek	Pboulder, Hspawn, Hriparian, Weedfree, Trout, Eel, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Devonshire Creek	Pboulder, Hriparian, Hspawn, Hjuve, Trout			
Ophir Drainage Channel	Weedfree, Rarefish		<i>Significant habitat type locality for roundhead galaxiid.</i>	
Dunstan Creek	Pgravel, Weedfree, Hriparian. Hjuve (t), Hspawn (t), Trout in lower reaches	Old gold sluicing landscapes at Blue Lake.		A high degree of naturalness above 900 metres asl.
Ida Burn and Pool Burn	Hspawn, Hjuve, Trout, Eel			
Donald Stuarts Creek	Pgravel, Weedfree. Exoticfree, Invrare upstream of H41:508840			A high degree of naturalness above 900 metres asl.
Dovedale Creek	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	

SCHEDULE 1A: NATURAL VALUES

Central Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Earnsclough or Fraser River	Pgravel, Hspawn(t), Hjuve(t). Hriparian (except in lower reaches). Weedfree, Trout, Eel. Exoticfree in headwaters. Invrare upstream of F42:098420			A high degree of naturalness above 900 metres asl.
Bannock Burn	Pgravel, Hjuve, Hspawn, Eel, Trout			
Low Burn	Pboulder, Weedfree, Hspawn(t), Hjuve(t)			A high degree of naturalness above 900 metres asl.
Sheepskin Creek	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Schoolhouse Creek	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Lindis River	Pgravel, Weedfree, Hspawn(t), Hjuve(t), Eel, Trout			A high degree of naturalness above 900 metres asl.
John Bull Creek	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Amisfield Burn	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Cardrona River	Pboulder, Psand, Pgravel, Hspawn, Hjuve, Weedfree, Trout, Eel, Rarefish. Invrare (mid to upper reaches)		<i>Significant habitat for flathead galaxiid</i>	A high degree of naturalness above 900 metres asl
Spotts Creek	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Timber Creek	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Branch Burn	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Boundary Creek	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Wrights Gully	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Maori Gully	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Kawarau River <i>between Lake Dunstan and Lake Wakatipu</i>	Psize, Pgravel, Prock, Trout, Salmon, Eel, Rarefish. Weedfree upstream of Lake Dunstan	Outstanding: (a) for its wild, scenic characteristics; (b) natural characteristics, in particular the return flow in the upper section when the Shotover River is in flood; (c) for scientific values, in particular the return flow in the upper section when the Shotover is in flood; (d) for recreational purposes, in particular rafting, jet boating and kayaking. Spectacular and rugged river gorge, schistose landscape, fast flowing white water and rapids, old gold sluicing landscape, from confluence with Arrow River to Lake Dunstan.	<i>Significant habitat</i> for koaro including many tributaries.	
Soho Creek	Weedfree. Invrare upstream of F41:866830			
Lake Hayes	Psand, Psilt, Weedfree, Hriparian, Eel, Trout			
Lakes Johnson, Luna, Kirkpatrick and Dispute	Hriparian, Eel, Trout			
Horne Creek	Weedfree. Hspawn(t), Hjuve(t), Ppass, Trout in lower reaches			
Moke Lake	Hriparian, Weedfree (also free of Elodea), Eel, Trout, Sigveg		<i>Significant vegetation:</i> Rare association of aquatic plants.	

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Lake Wakatipu	Psize, Pplant, Weedfree, Hjuve(t&s), Hriparian, Eel, Trout, Salmon, Sigveg, Rarefish, Invrare	<p>Outstanding:</p> <p>(a) as a fishery;</p> <p>(b) for its scenic characteristics;</p> <p>(c) for scientific value, in particular water clarity, and bryophyte community;</p> <p>(d) for recreational purposes, in particular boating;</p> <p>(e) for historical purposes;</p> <p>(f) for significance in accordance with tikanga Maori, in particular sites at the head of the lake, and the legend of the lake itself.</p> <p>Scenic values within the wider landscape context of the surrounding mountains, particularly:</p> <ul style="list-style-type: none"> • clear blue colour of the water, • river deltas, and • beaches, particularly uncommon beach features between Rat Point and White Point. 	<p><i>Significant habitat</i> for koaro including many tributaries.</p> <p><i>Significant vegetation:</i> Rare association of aquatic plants.</p>	
Unnamed tributary of Lake Wakatipu at F42:747392	Weedfree, Invrare			
One Mile Creek	Weedfree. Invrare upstream of E41:665659			
Gorge Creek	Weedfree. Invrare upstream of E41:408857			

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Wye, Kingston and Staircase Creeks	Pboulder, Hriparian, Weedfree, Rarefish. Ppass in Staircase Creek only. Hspawn in lower reaches		<i>Significant habitat</i> for koaro.	A high degree of naturalness above 900 metres asl.
Streams from west and south of Richardson Mountains	Pboulder, Weedfree, Hjuve, Hspawn, Hriparian			A high degree of naturalness above 900 metres asl.
Buckler Burn, Precipice Creek or Temple Burn, Twelve Mile Creek or Ox Burn	Pboulder, Weedfree, Hspawn(t), Hjuve(t), Hriparian			A high degree of naturalness above 900 metres asl.
Rees River	Psize, Ppass, Hspawn(t), Hjuve(t), Weedfree, Hriparian, Eel, Salmon, Trout, Birddiv, Birdrare	<p>Outstanding:</p> <p>(a) Natural and physical qualities and characteristics that contribute to people's appreciation of pleasantness of waters;</p> <p>(b) Natural and physical qualities and characteristics that contribute to aesthetic coherence;</p> <p>(c) as habitat for wildlife;</p> <p>(d) for its scenic characteristics;</p> <p>(e) for significance in accordance with tikanga Maori, in particular sites at the mouth of the river.</p> <p>High level of naturalness - free from significant interference by human practices, from confluence with Hunter Creek to its source.</p> <p>System of braided gravel river channels, in main stem from Lake Wakatipu</p>	<i>Significant habitat:</i> Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - in main stem from Lake Wakatipu to confluence with Hunter Creek.	

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
		to confluence with Hunter Creek.		
Earnslaw Burn	Ppass, Hspawn, Hriparian, Hjuve, Trout, Weedfree, Salmon, Birddiv, Birdrare			A high degree of naturalness within Mount Aspiring/Tititea National Park.
Diamond Lake, Diamond Creek and Lake Reid	Ppass, Psand, Hspawn(t&s), Hjuve(t&s), Weedfree, Hriparian, Eel, Trout, Salmon (Quinnat), Birddiv, Rarefish	Outstanding (a) as habitat for wildlife and quinnat salmon; (b) as a fishery.	<i>Significant habitat</i> for koaro.	
Diamond Lake tributary at E40:447978	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Dart River/Te Awa Whakatipu	Psize, Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Eel, Trout, Salmon, Birddiv, Birdrare	Outstanding: (a) Natural and physical qualities and characteristics that contribute to people's appreciation of pleasantness of waters; (b) Natural and physical qualities and characteristics that contribute to aesthetic coherence; (c) Natural and physical qualities and characteristics that contribute to cultural attributes; (d) Biological and genetic diversity of ecosystems; (e) Essential characteristics that determine the ecosystem's integrity, form, functioning and resilience; (f) as habitat for wildlife; (g) for its scenic characteristics; (h) for its natural characteristics, in	<i>Significant habitat:</i> Presence of a breeding population of threatened endemic species - blue duck - above Beans Burn confluence to its source. Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - in main stem from Lake Wakatipu to confluence to Beans Burn.	

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
		<p>particular natural turbidity;</p> <p>(i) scientific value, in particular natural turbidity;</p> <p>(j) for significance in accordance with tikanga Maori, in particular sites at the mouth of the river.</p> <p>High level of naturalness - free from significant interference by human practices above Beans Burn confluence to its source.</p> <p>System of braided gravel river channels with delta, in main stem from Lake Wakatipu to confluence with Beans Burn.</p>		
Route Burn	Psize, Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Eel, Trout, Birddiv, Birdrare	<p>Outstanding:</p> <p>(a) Natural and physical qualities and characteristics that contribute to people's appreciation of pleasantness of waters;</p> <p>(b) Natural and physical qualities and characteristics that contribute to aesthetic coherence;</p> <p>(c) Natural and physical qualities and characteristics that contribute to cultural attributes;</p> <p>(d) Natural and physical qualities and characteristics that contribute to recreational attributes;</p> <p>(e) Biological and genetic diversity of ecosystems;</p>		A high degree of naturalness within Mount Aspiring/Tititea National Park.

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
		<p>(f) Essential characteristics that determine the ecosystem's integrity, form, functioning and resilience.</p> <p>High level of naturalness - free from significant interference by human practices.</p>		
Greenstone River, Caples River	Psize, Ppass, Weedfree, Hspawn(t), Hjuve(t), Hriparian, Eel, Trout, Birdrare	<p>Outstanding:</p> <p>(a) Natural and physical qualities and characteristics that contribute to people's appreciation of pleasantness of waters;</p> <p>(b) natural and physical qualities and characteristics that contribute to recreational attributes;</p> <p>(c) Essential characteristics that determine the ecosystem's integrity, form, functioning and resilience.</p> <p>High level of naturalness - free from significant interference by human practices.</p>		A high degree of naturalness within National Park and DoC estate.
Lochy River	Ppass, Weedfree, Hspawn, Hjuve, Eel, Trout	<p>Outstanding:</p> <p>(a) as a fishery;</p> <p>(b) for recreational purposes, in particular fishing.</p> <p>Wild and scenic characteristics, in main stem from Lake Wakatipu to its source.</p>		A high degree of naturalness above 900 metres asl.
Collins Creek	Hspawn(t), Hjuve(t)			

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Streams flowing to Lake Wakatipu between Halfway Bay and Elfin Bay, including Von River	Ppass, Weedfree, Hspawn(t), Hjuve(t), Hriparian, Eel, Trout, Rarefish	Outstanding: (a) as a fishery; (b) for recreational purposes, in particular fishing. Wild and scenic characteristics, in Von main stem from Lake Wakatipu to its source.	<i>Significant habitat</i> for roundhead galaxiid (Von catchment).	A high degree of naturalness above 900 metres asl.
Bullock Creek	Hspawn(t), Hjuve(t), Trout			
Lake Wanaka	Psize, Psand, Eel, Trout, Salmon, Sigveg, Rarefish, Invrare	Scenic values within the wider landscape context of the surrounding mountains, particularly the unmodified lake level, water quality and colour of the water.	<i>Significant vegetation:</i> Rare association of aquatic plants.	
Unnamed tributary of the Motatapu River at F40:825058	Weedfree, Invrare			
Unnamed tributary of the Motatapu River at F40:827055	Weedfree, Invrare			
Matukituki River	Psize, Ppass, Weedfree, Hspawn(t&s), Hjuve(t&s), Hriparian, Eel, Trout, Birddiv, Birdrare, Rarefish	System of braided gravel river channels, in main stem from Lake Wanaka to its source.	<i>Significant habitat:</i> Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - in main stem from Lake Wanaka to its source. <i>Significant habitat</i> for koaro including many tributaries.	A high degree of naturalness within Mount Aspiring/Tititea National Park.

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Streams flowing off West Wanaka, including Albert Burn	Ppass, Hspawn, Hjuve, Hriparian, Weedfree, Trout			A high degree of naturalness within Mount Aspiring/Tititea National Park. A high degree of naturalness above 900 metres asl.
Wilkin River	Psize, Pgravel, Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Trout, Eel, Birddiv, Birdrare	High level of naturalness - free from significant interference by human practices above Kerin Forks to its source. System of braided, gravel river channels, in main stem from confluence with Makarora River to Kerin Forks	<i>Significant habitat:</i> Presence of a breeding population of threatened endemic species - blue duck - above upper forks to source. Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - in main stem from confluence with Makarora River to Kerin Forks.	A high degree of naturalness within Mount Aspiring/Tititea National Park.
Young River	Psize, Ppass, Hriparian, Hspawn, Hjuve, Trout, Eel			A high degree of naturalness within Mount Aspiring/Tititea National Park.
Makarora River	Psize, Ppass, Pgravel, Weedfree, Hspawn, Hjuve, Hriparian, Eel, Trout, Birddiv, Birdrare	System of braided, gravel river channels with delta, in main stem between Lake Wanaka and confluence with Blue River.	<i>Significant habitat:</i> Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - in main stem between Lake Wanaka and confluence with Blue River.	A high degree of naturalness within Mount Aspiring/Tititea National Park.
Brady Creek	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Lake Hawea	Psize, Psand, Weedfree, Hjuve(t&s), Eel, Trout, Salmon	Scenic values within the wider landscape context of the surrounding mountains, particularly colour of the water.		

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Hunter River	Psize, Pgravel, Ppass, Weedfree, Hspawn(t), Hjuve(t), Hriparian, Eel, Trout, Birddiv, Birdrare	High level of naturalness - free from significant interference by human practices between Long Flat Creek confluence and its source System of braided, gravel river channels, in main stem from Lake Hawea to confluence with Long Flat Creek.	<i>Significant habitat:</i> Presence of a breeding population of threatened endemic species - blue duck - between Long Flat Creek confluence and its source. Areas of importance to internationally uncommon species - black fronted tern, wrybill, banded dotterel - from Lake Hawea to confluence with Long Flat Creek.	A high degree of naturalness within Mount Aspiring/Tititea National Park. A high degree of naturalness above 900 metres asl.
Dingle Burn	Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Eel, Trout, Birdrare			A high degree of naturalness above 900 metres asl.
Timaru River	Ppass, Hspawn, Hjuve, Hriparian, Weedfree, Trout. Invrare between G39:308280 and G39:313294 (incl tributaries)			A high degree of naturalness above 900 metres asl.
Hawea River	Psize, Weedfree, Hspawn, Hjuve, Trout, Salmon, Eel			
Shotover River	Pgravel, Pboulder, Psand, Prock, Psize, Weedfree, Hriparian, Birddiv, Birdrare	Outstanding: (a) for its wild and scenic characteristics; (b) for its natural characteristics, in particular the high natural sediment load and active delta at confluence with Kawarau River; (c) scientific value, in particular the high natural sediment load and active delta at confluence with Kawarau River; (d) for recreational purposes, in particular	Lochnagar and Lake Creek, outstanding: (a) Essential characteristics that determine the ecosystem's integrity, form, functioning and resilience. <i>Significant habitat:</i> Areas of importance to internationally uncommon species - black fronted tern, banded dotterel - in main stem between	A high degree of naturalness above 900 metres asl.

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
		<p>rafting, kayaking and jet boating; (e) for historical purposes, in particular gold mining.</p> <p>Spectacular and rugged river gorge, schistose landscape, fast flowing white water and rapids, old gold sluicing landscape, in main stem between confluence with Iron Stone Stream and Arthur Point.</p> <p>Wild and scenic characteristics, from confluence with Iron Stone Stream to its source.</p>	Arthur Point and its source.	
Carmichaels Creek	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Deep Creek	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Skippers Creek	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Mill Creek	Pgravel, Psand, Hspawn, Hjuve, Weedfree, Rarefish		<i>Significant habitat</i> for roundhead galaxiid.	A high degree of naturalness above 900 metres asl.
Arrow River	Psize, Psand, Pgravel, Ppass, Hspawn, Hjuve, Weedfree, Trout			A high degree of naturalness above 900 metres asl.
Roaring Meg	Pboulder, Weedfree, Hriparian. Invrare upstream of F41:026844			A high degree of naturalness above 900 metres asl.
Nevis River	Psize, Ppass, Prock, Pgravel, Psand, Hspawn,, Hjuve, Weedfree, Eel, Trout, Birddiv, Birdrare. Invdiv above Nevis Crossing.	<p>Main stem gorge from Nevis Crossing to Kawarau River confluence: Outstanding (a) for its wild, characteristics; (b) for recreational purposes, in particular fishing and kayaking.</p> <p>Main stem above Nevis Crossing to source:</p>		A high degree of naturalness above 900 metres asl.

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
		<p>Outstanding (a) for its scenic, characteristics; (b) for recreational purposes, in particular fishing.</p> <p>High level of naturalness above Nevis Crossing to its source.</p> <p>Spectacular river gorge, white water and rapids, in main stem from Nevis Crossing to confluence with Kawarau River.</p>		
Unnamed tributary of the Nevis River at F43:820261	Hriparian, Weedfree, Rarefish		<i>Significant habitat</i> for roundhead galaxiid.	
Sproules Creek	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	
Schoolhouse Creek	Weedfree. Invrare upstream of F42:870478			
Unnamed tributary of the Nevis River at F42:921450	Weedfree, Rarefish		<i>Significant habitat</i> for roundhead galaxiid	
Unnamed tributary of the Nevis River at F42:951492	Weedfree. Invrare upstream of F42:003487			
Unnamed tributary of the Nevis River at F42:954541	Weedfree, Rarefish		<i>Significant habitat</i> for roundhead galaxiid.	
Nevis Burn	Weedfree. Invrare upstream of F42:870524			

SCHEDULE 1A: NATURAL VALUES

Lakes subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Unnamed tributary of the Nevis River at F42:959529	Weedfree, Rarefish		Significant habitat for roundhead galaxiid.	
Doolans Creek Left Branch	Weedfree. Invrare upstream of F42:860561			
Rastus Burn	Pboulder, Weedfree, Hspawn, Hriparian, Invrare upstream of F41:806641			A high degree of naturalness above 900 metres asl

SCHEDULE 1A: NATURAL VALUES

Roxburgh subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Clutha River/Mata-Au between Alexandra and Island Block	Psize, Psand, Pgravel, Prock, Hjuve, Eel, Trout, Salmon, Birddiv. Hspawn(s) below Roxburgh dam, Sigveg below Roxburgh dam		<i>Significant habitat for lamprey (uncommon in Otago)</i>	
Obelisk Creek	Weedfree. Invre upstream of G42:175339			
Elbow Creek	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Coal Creek	Weedfree. Invre upstream of G42:170321			
Teviot River	Pboulder, Weedfree, Willowfree (in upper reaches), Hjuve(t&s), Hspawn(t&s), Hriparian, Trout			
Lake Onslow	Hriparian, Hjuve(t), Hspawn(t), Trout			
Unnamed tributary of Lake Onslow at G43:458137	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Black Jacks Creek	Weedfree. Invre upstream of G43:210086			
Benger Burn	Pboulder, Weedfree, Hspawn(t&s), Hriparian, Rarefish		<i>Significant habitat for koaro.</i>	A high degree of naturalness above 900 metres asl.
Tima Burn	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Streams flowing from Old Man Range /Kopuwai	Pboulder, Hspawn(t), Weedfree, Hriparian			A high degree of naturalness above 900 metres asl.

SCHEDULE 1A: NATURAL VALUES

Strath Taieri subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Taieri River between Tiroiti and Pukerangi	Psize, Ppass, Psand, Pgravel, Weedfree, Hspawn(t), Hjuve, Hriparian, Eel, Salmon, Rarefish, Fishdiv, Trout		Significant habitat for flathead galaxiid (including many tributaries). Significant habitat for lamprey (uncommon in Otago) Significant habitat for Lower Taieri galaxiid and koaro in many tributaries below Middlemarch.	
Prices Creek	Weedfree, Rarefish		Significant habitat for roundhead galaxiid.	
Lug Creek	Pboulder, Hriparian, Eel, Weedfree. Invrare upstream of H43:862280			A high degree of naturalness above 900 metres asl.
Cap Burn, Mare Burn, Scrub Burn and Six Mile (upper)	Hriparian, Hspawn(t), Hjuve(t)			
Annetts Creek, Heeney Creek and House Creek	Hriparian, Hspawn(t), Hjuve(t)			
Six Mile Creek (lower)	Pgravel, Prock, Weedfree, Eel, Hriparian, Hspawn(t), Hjuve(t). Invrare upstream of H43:853243			
Last Creek, Nant Creek, Dewar Creek and Kirkland Creek	Pgravel, Hriparian, Hspawn(t), Hjuve(t)			
Nenthorn Stream	Weedfree, Hspawn(t), Hjuve(t), Hriparian, Eel, Trout, Rarefish		Significant habitat for flathead galaxiid.	
Black Rock Stream	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Manuka Stream	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Washpool Stream	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Deighton Creek	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	

SCHEDULE 1A: NATURAL VALUES

Strath Taieri subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Spratts Creek	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Sutton Stream	Pboulder, Weedfree, Hspawn(t), Hriparian, Hjuve, Trout, Eel			A high degree of naturalness above 900 metres asl.
Burgan Stream	Weedfree, Exoticfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Stony Creek	Weedfree, Rarefish. Invrare upstream of H44:603910		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Salt Lake (near Sutton)	Weedfree	A rare example of a natural salt lake.		
March Creek	Pboulder, Pgravel, Psand, Psilt, Weedfree			A high degree of naturalness above 900 metres asl.

SCHEDULE 1A: NATURAL VALUES

Waikouaiti/Lammermoor subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Waikouaiti River (excluding South Branch)	Psize, Ppass, Psand, Pgravel, Weedfree, Hspawn (t) (& inanga spawning between I43:240084 and I43:266087), Hjuve, Eel, Trout, Rarefish. Invrare between I43:183242 and I43:093297, and including tributaries between I43:148264 and I43:093297		Significant habitat for flathead galaxiid, hybrid galaxiid, banded kokopu and koaro.	
Unnamed tributary of the Waikouaiti River at I43:097281	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Back Creek	Weedfree, Rarefish		Significant habitat for flathead galaxiid.	
Waikouaiti River South Branch	Weedfree, Ppass, Hspawn(t), Hjuve, Hriparian, Trout, Rarefish, Fishdiv		Significant habitat for koaro.	A high degree of naturalness within Scenic Reserve.
Unnamed tributary of the Waikouaiti River a.k.a. Merton Stream at I43:244065	Weedfree, Fishdiv, Rarefish		Significant habitat for lamprey (uncommon in Otago).	
Toll Bar Creek	Weedfree, Rarefish		Significant habitat for koaro.	
Flat Stream	Weedfree. Invrare in lower reaches			
Taieri River between Pukerangi and Outram	Psize, Ppass, Pgravel, Psand, Prock, Weedfree, Hspawn, Hjuve, Hriparian, Trout, Salmon, Eel, Fishdiv, Rarefish	Well defined, deep gorge (Taieri Gorge) cut into distinct rocky scarp, schistose landscape, in main stem between confluence with Ross Stream and Outram.	Significant habitat for Lower Taieri galaxiid (tributaries). Significant habitat for lamprey (uncommon in Otago).	
Traquair Burn	Weedfree, Eel, Fishdiv			
Smugglers Creek	Weedfree, Rarefish		Significant habitat (and type locality) for Lower Taieri galaxiid.	

SCHEDULE 1A: NATURAL VALUES

Waikouaiti/Lammermoor subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Deep Stream	Pgravel, Psize in lower reaches. Weedfree, Hspawn(t), Hjuve(t), Hriparian, Rarefish, Eel, Trout. Invrare upstream of H44:605910		<i>Significant habitat for Lower Taieri galaxiid.</i>	A high degree of naturalness above 900 metres asl.
Clarkes Stream	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid at H44:682930.</i>	
Unnamed tributary of Deep Stream at H44:660958	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Unnamed tributary of Deep Stream at H44:678947	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Barbours Stream	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Deep Creek	Pgravel, Weedfree, Hspawn(t), Hjuve, Hriparian, Trout. Invrare upstream of H44:623987			A high degree of naturalness above 900 metres asl.
Three O'clock Stream	Ppass, Weedfree, Hspawn(t), Hjuve, Hriparian, Willowfree, Trout, Rarefish, Fishdiv		<i>Significant habitat for flathead galaxiid and koaro.</i>	
Christmas Creek	Ppass, Pboulder, Weedfree, Hspawn(t), Hjuve(t), Hriparian, Willowfree			A high degree of naturalness within Scenic Reserve.
Lee Stream	Psize, Ppass, Pgravel, Psand, Weedfree, Hspawn(t), Hjuve, Hriparian, Rarefish, Eel, Trout. Invrare upstream of I44:952867, and including tributaries upstream of I44:916868		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Black Rock Stream	Weedfree, Eel, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Broad Stream	Weedfree, Eel, Rarefish		<i>Significant habitat for koaro.</i>	
Canton Creek	Weedfree, Rarefish, Fishdiv		<i>Significant habitat for Lower Taieri galaxiid.</i>	

SCHEDULE 1A: NATURAL VALUES

Waikouaiti/Lammermoor subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Big Stream	Ppass, Pboulder, Hspawn(t), Hjuve(t), Willowfree, Weedfree, Eel, Rarefish, Trout			A high degree of naturalness within Scenic Reserve.

SCHEDULE 1A: NATURAL VALUES

Coastal subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Careys Creek	Pgravel, Weedfree, Hspawn(t), Hjuve(t), Rarefish, Fishdiv, In divid (upper reaches)		<i>Significant habitat</i> for koaro and banded kokopu. <i>Significant habitat</i> for lamprey (uncommon in Otago).	
Waitati River	Ppass, but major abstractions can result in very low flows in lower stretches. Pgravel, Weedfree, Hspawn (t) (&inanga spawning below I44:205925), Hjuve(t). Hriparian in headwaters. Trout, Rarefish, In divid (upper reaches)		<i>Significant habitat</i> for koaro. <i>Significant habitat</i> for lamprey (uncommon in Otago).	A high degree of naturalness within Silverpeaks Scenic Reserve.
Fergusons Creek	Weedfree. Inrvare above I44:170896			
Wetherstons Creek	Weedfree			
Orokonui Creek	Weedfree, Hspawn(t), Hjuve(t), Rarefish, Fishdiv		<i>Significant habitat</i> for giant kokopu, koaro and banded kokopu. <i>Significant habitat</i> for lamprey (uncommon in Otago).	
Foote Stream and Mihiwaka Stream	Weedfree, Rarefish		<i>Significant habitat</i> for koaro and banded kokopu.	
Water of Leith	Pgravel, Weedfree, Hspawn(t&s), Hjuve(t&s), Hriparian Rarefish, Salmon, Trout		<i>Significant habitat</i> for giant kokopu and banded kokopu.	
Streams entering Otago Harbour (except Water of Leith)	Weedfree, Hspawn, Rarefish, Fishdiv, Exoticfree		<i>Significant habitat</i> for koaro and banded kokopu.	
Unnamed tributary of Otago Harbour a.k.a. Deborah Bay Stream at I44:252876	Weedfree, Rarefish		<i>Significant habitat</i> for koaro and banded kokopu.	

SCHEDULE 1A: NATURAL VALUES

Coastal subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Unnamed tributary of Latham Bay a.k.a. Latham Bay Stream at I44:280824	Weedfree, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Unnamed tributary of Otago Harbour a.k.a. Macandrew Bay Stream at I44:233793	Weedfree, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Unnamed tributary of Otago Harbour a.k.a. Otakou Stream at J44:318869	Weedfree, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Unnamed tributary of Papanui Inlet at J44:332820	Weedfree, Hspawn, Invrare			
Unnamed tributary of the Pacific Ocean at J44:345808 (Papanui Beach)	Weedfree, Hspawn, Invrare			
Robertsons Creek	Weedfree, Hspawn, Invrare			
Unnamed pond, Jones Creek at I44:115734	Weedfree, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Unnamed tributary of the Pacific Ocean at I44:241763 (Boulder Beach)	Weedfree, Hspawn, Fishdiv			
Tomahawk Lagoon	Psilt, Weedfree, Hriparian, Trout, Eel, Invrare			
Otokia Creek	Weedfree, Ppass, Hspawn, Hjuve, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Fern Stream	Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Fishdiv, Rarefish, Birddiv		<i>Significant habitat for banded kokopu.</i>	

SCHEDULE 1A: NATURAL VALUES

Coastal subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Flax Stream	Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Exoticfree, Fishdiv, Rarefish, Birddiv		<i>Significant habitat for banded kokopu.</i>	
Unnamed tributary of the Taieri River a.k.a. Takitakitoa Stream	Ppass, Psilt, Weedfree, Hspawn, Hjuve, Hriparian, Birddiv, Eel, Rarefish		<i>Significant habitat for giant kokopu and banded kokopu.</i>	
Taieri River between Henley and the sea	Psize, Ppass, Psilt, Psand, Weedfree, Hspawn, Hjuve, Hriparian, Rarefish, Fishdiv, Trout, Salmon, Eel, Gbird	Lower Taieri Gorge	<i>Significant habitat for giant kokopu and banded kokopu.</i>	
Akatore Creek	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Eel, Trout, Fishdiv, Rarefish. Exoticfree upstream of H45:878565		<i>Significant habitat for koaro and banded kokopu.</i>	
Bull Creek	Hspawn, Hjuve, Hriparian, Weedfree, Fishdiv, Rarefish		<i>Significant habitat for koaro.</i>	
Big Creek	Hspawn, Hjuve, Hriparian, Weedfree, Fishdiv, Rarefish		<i>Significant habitat for koaro.</i>	
Lower Tokomairiro River main stem	Psand, Psilt, Pgravel Pplant, Psize, Ppass, Hspawn(t), Hriparian, Hjuve(t), Eel, Trout, Fishdiv			
Wangaloa Creek	Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Exoticfree, Birddiv			
Unnamed tributary of the Pacific Ocean a.k.a. Turnbolls Creek at H46:787366	Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Exoticfree, Rarefish, Birddiv		<i>Significant habitat for banded kokopu.</i>	

SCHEDULE 1A: NATURAL VALUES

Taieri/Clutha Plains subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Taieri River between Outram and Henley	Psize, Psilt, Ppass, Pgravel, Psand, Weedfree, Hjuve, Trout, Salmon, Eel, Birddiv, Fishdiv, Rarefish, Gbird			
Lakes Waipori/Waihola	Psize, Ppass, Psilt, Weedfree, Hspawn, Hjuve, Hriparian, Eel, Trout, Fishdiv, Birddiv, Birdrare, Rarefish		<i>Significant habitat:</i> Presence of variety of waterfowl and native fish, including a breeding population of fernbird and giant kokopu.	
Mary Hill Creek	Weedfree, Rarefish, Fishdiv		<i>Significant habitat</i> for giant kokopu.	
Lee Creek	Ppass, Weedfree, Hspawn(t), Hjuve(t), Eel. Hriparian and Invrare above H44:898800			
Contour Channel and other West Taieri hill streams	Ppass, Weedfree, Hspawn(t), Hjuve(t), Eel. Hriparian in upper stretches			A high degree of naturalness above 900 metres asl
Mill Creek	Weedfree, Eel, Rarefish		<i>Significant habitat</i> for koaro.	
Meggat Burn	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Eel, Rarefish. Invrare upstream of H45:743693		<i>Significant habitat</i> for banded kokopu.	
Waipori River	Ppass in lower stretches. Hspawn(t), Hjuve(t), Hriparian, Weedfree, Fishdiv, Eel, Rarefish, Trout		<i>Significant habitat</i> for koaro upstream of dam.	A high degree of naturalness above 900 metres asl and within Scenic Reserve.
Shepherd Stream	Weedfree, Rarefish		<i>Significant habitat</i> for Lower Taieri galaxiid.	
Tributaries of Waipori River	Weedfree, Rarefish		<i>Significant habitat</i> for dusky galaxiid and koaro. Munro's Dam Stream type locality for dusky galaxiid.	
Lake Mahinerangi	Weedfree, Hriparian, Trout, Rarefish		<i>Significant habitat</i> for koaro.	
Unnamed tributaries of Lake Mahinerangi at H44:709803, H44:714801, and H44:724797	Weedfree, Rarefish		<i>Significant habitat</i> for koaro.	

SCHEDULE 1A: NATURAL VALUES

Taieri/Clutha Plains subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Lammerlaw Stream	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
North West Stream	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Nardoo Stream	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Unnamed tributary of Lake Mahinerangi at H44:705754	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Unnamed tributary of Lake Mahinerangi at H44:720766	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Unnamed tributary of Pioneer Stream at H44:703752	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Boundary Creek	Hriparian, Hspawn, Hjuve			
Unnamed tributaries of Lake Mahinerangi at H44:775772, H44:778770, and H44:775770	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Verter Burn	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Post Office Creek	Hspawn(t), Hjuve(t), Hriparian, Weedfree, Rarefish, Fishdiv		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Silver Stream	Pgravel, Weedfree, Trout, Eel. Hspawn(t), Hjuve(t), Invdiv (midreaches), Hriparian in upper catchment. Invrare upstream of I44:144849. Rarefish		<i>Significant habitat for koaro upstream of I44:114899 and including several tributaries. Significant habitat for lamprey (uncommon in Otago).</i>	A high degree of naturalness above 900 metres asl and within Scenic Reserve and water reserve.
Whare Creek	Weedfree, Eel, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Upper Tokomairiro River main stem (including East and West Branches)	Psize, Ppass, Pgravel, Hspawn(t), Hjuve(t), Trout, Eel, Rarefish. Hriparian in upper catchment		<i>Significant habitat for fernbird. Significant habitat for Lower Taieri galaxiid in tributaries. Significant habitat for lamprey (in East and West Branches).</i>	

SCHEDULE 1A: NATURAL VALUES

Taieri/Clutha Plains subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Unnamed tributary of Fishers Stream at H45:706645	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Unnamed tributary of the Tokomairiro River West Branch at H45:693655	Weedfree, Rarefish		<i>Significant habitat for Lower Taieri galaxiid.</i>	
Unnamed tributary of the Tokomairiro River West Branch a.k.a. Nuggety Gully	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Lovells Stream	Ppass, Hspawn(t), Hjuve(t), Trout, Eel			
Lake Tuakitoto	Ppass, Psilt, Psand, Pplant, Psize, Weedfree, Hspawn, Hjuve(t), Hriparian, Trout, Eel, Birddiv, Birdrare, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu. Also a breeding population of fernbird.</i>	
Lake Kaitangata (and Lake Kaitangata/Lake Tuakitoto Drainage)	Weedfree, Eel, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu.</i>	
Saddle Stream	Weedfree, Eel, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu.</i>	
McCrosties Drain	Weedfree, Eel, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu.</i>	
Clutha River /Mata-Au between Balclutha and the sea	Psize, Ppass, Psand, Pgravel, Hspawn(s), Hjuve(t&s), Trout, Eel, Salmon, Fishdiv, Rarefish, Gbird			
Puerua River	Ppass, Psilt, Weedfree, Rarefish, Fishdiv, Hriparian, Hspawn(t), Hjuve(t), Eel		<i>Significant habitat for giant kokopu (Puerua River deviation)</i>	
Glenomaru Stream	Weedfree, Hriparian, Hspawn(t), Hjuve(t). Invdiv in mid reaches			

SCHEDULE 1A: NATURAL VALUES

Southwest Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Pomahaka River	Psize, Ppass, Pgravel, Psand, Prock, Weedfree, Hspawn(t&s), Hjuve(t&s), Hriparian, Rtrout, Eel, Fishdiv, Invdiv. Invrare between G45416466 and confluence with Clutha River/Mata-Au, Gbird			
Timber Creek	Ppass, Weedfree, Hspawn(t&s), Hjuve(t&s), Trout. Invrare upstream of G43:173032			
Unnamed tributary of Flodden Creek a.k.a. Whisky Gully	Weedfree. Invrare upstream of G45:216674			
Rankle Burn	Weedfree. Invrare upstream of G45:274640			
Back Stream West Branch	Weedfree, Invdiv			
Bullock Creek	Weedfree. Invrare upstream of G43:170093			
Waiwera River	Pgravel, Ppass, Weedfree, Hspawn(t&s), Hriparian, Hjuve(t&s), Trout, Eel, Rarefish, Invdiv		<i>Significant habitat for roundhead galaxiid.</i>	
Kaihiku Stream	Pgravel, Hspawn(t), Hjuve(t), Eel, Trout, Invdiv (mid reaches)			
Clutha River /Mata-Au between Island Block and Balclutha	Psize, Ppass, Psand, Pgravel, Hspawn(t&s), Hjuve, Eel, Trout, Salmon, Sigveg, Birddiv, Rarefish, Fishdiv, Gbird between Balclutha and Tuapeka River mouth	Beaumont and Rongahere Gorge.	<i>Significant habitat:</i> Remnant indigenous ecosystem at Birch Island. <i>Significant vegetation:</i> Rare association of aquatic plants above confluence with Tuapeka.	

SCHEDULE 1A: NATURAL VALUES

Southwest Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Unnamed tributary of the Clutha River/Mata-Au a.k.a. Raes Junction Stream	Rarefish		<i>Significant habitat for koaro.</i>	
Canadian Creek	Rarefish		<i>Significant habitat for koaro. Significant habitat for lamprey (uncommon in Otago).</i>	
Unnamed tributary of the Tuapeka River a.k.a. Konini Creek	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Waitahuna River	Ppass, Weedfree, Hspawn(t&s), Hjuve(t&s), Rarefish, Eel, Trout. Invrare upstream of H44:653760		<i>Significant habitat for Waitahuna dusky galaxiid (in headwaters and upper tributaries), and flathead galaxiid.</i>	
Tuapeka River	Pgravel, Psize, Ppass, Weedfree, Hspawn(t&s), Hjuve(t&s), Eel, Trout. Invdiv in upper reaches			
Unnamed tributaries of the Tuapeka River upstream of G45:472668	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid and dusky galaxiid.</i>	
Wetherston Creek	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Corkscrew Road Stream	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Blackcleugh Burn	Weedfree. Invrare upstream of G45:340676			
Kuriwao Stream	Ppass, Hspawn(t), Hjuve(t), Trout, Eel			

SCHEDULE 1A: NATURAL VALUES

Southwest Otago subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Mokoreta River (upper stretches, within Otago region)	Ppass, Hspawn(t), Hjuve(t), Trout, Eel			
Waipahi River (lower stretches, within Otago region)	Pplant, Pgravel, Psize, Ppass, Weedfree, Hspawn(t&s), Hjuve(t&s), Rtrout, Eel			

SCHEDULE 1A: NATURAL VALUES

Catlins subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Catchments between Fleming River and Longbeach Creek (excl Tautuku River)	Weedfree, Ppass, Hspawn, Hjuve, Hriparian, Fishdiv, Birddiv			A high degree of naturalness within bushed catchments.
Tautuku River	Psize, Ppass, Weedfree, Hspawn, Hjuve, Hriparian, Fishdiv, Birddiv, Eel	Scenic values with silver beech margins, from its mouth to its source.		A high degree of naturalness within bushed catchments.
Tautuku Bay Stream	Weedfree, Rarefish		<i>Significant habitat for banded kokopu.</i>	
Tahakopa River	Pgravel, Psize, Weedfree, Rarefish, Ppass, Hspawn(t), Hjuve(t), Hriparian, Trout, Eel, Fishdiv, Birddiv		<i>Significant habitat for flathead galaxiid. Significant habitat for lamprey (uncommon in Otago).</i>	A high degree of naturalness within bushed catchments.
Jumbo Creek	Rarefish		<i>Significant habitat for koaro and banded kokopu.</i>	
Gorge Creek	Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Unnamed tributary of the Tahakopa River at G47:268063	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Maclennan River	Psize, Weedfree, Ppass, Hspawn(t), Hjuve(t), Hriparian, Trout, Eel, Fishdiv, Birddiv, Rarefish	Scenic values with silver beech margins, from confluence with Tahakopa River to its source.	<i>Significant habitat for koaro. Significant habitat for lamprey (uncommon in Otago).</i>	A high degree of naturalness within bushed catchments.
Waitangi Stream	Weedfree, Rarefish		<i>Significant habitat for koaro.</i>	
Matai Stream	Weedfree, Rarefish, Fishdiv		<i>Significant habitat for roundhead galaxiid and banded kokopu.</i>	
Catlins River	Psize, Pgravel, Ppass, Weedfree, Hspawn(t), Hjuve(t), Hriparian, Trout, Eel, Rarefish, Fishdiv, Invdiv	Scenic values with silver beech margins, from its mouth to its source.	<i>Significant habitat for giant kokopu, banded kokopu and roundhead galaxiid. Significant habitat for lamprey (uncommon in Otago).</i>	A high degree of naturalness within bushed catchments.
Purakaunui River	Pboulder, Ppass (below Falls), Weedfree, Eel	Purakaunui Falls.		A high degree of naturalness within bush, apart from viewing structures.

SCHEDULE 1A: NATURAL VALUES

Catlins subregion				
<i>Water body</i>	<i>Ecosystem Values</i>	<i>Outstanding natural feature or landscape</i>	<i>Significant indigenous vegetation and significant habitat of indigenous fauna</i>	<i>Areas with a high degree of naturalness</i>
Frank Stream	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Wallis Stream	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Craggy Tor Stream	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Daphne Brook	Weedfree, Rarefish		<i>Significant habitat for flathead galaxiid.</i>	
Tarwood Stream	Weedfree		<i>Significant habitat for roundhead galaxiid.</i>	
Papatupu Stream	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
Unnamed tributary of the Catlins River at G46:274228	Weedfree, Rarefish		<i>Significant habitat for roundhead galaxiid.</i>	
McLaren Creek	Weedfree, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu, koaro, roundhead galaxiid and banded kokopu.</i>	
Owaka River	Psize, Pgravel, Ppass, Weedfree, Hriparian, Hspawn(t), Hjuve(t), Fishdiv, Trout, Eel. Invdv in upper reaches			A high degree of naturalness within bushed catchments.
Unnamed tributary of the Owaka River at H46:504119	Weedfree, Rarefish, Fishdiv		<i>Significant habitat for giant kokopu.</i>	
Waipati (Chaslands) River	Hspawn(t), Hjuve(t), Trout, Eel			

SCHEDULE 1A: NATURAL VALUES

Sources for information contained in Schedule 1A

The outstanding natural features and landscapes, areas of significant indigenous vegetation and significant habitats of indigenous fauna identified in this schedule are derived from the following publications:

Allibone, R.M. (1997) Freshwater Fish of the Otago Region. Department of Conservation. Otago Conservancy Miscellaneous Report Series No. 36. (includes NIWA Freshwater Fish database for Otago rivers).

Biggs, BJ and Shand, BI (1985) Biological Communities and the Potential Effects of Power Developments in the Lower Clutha River - Otago. Report no. WS987, Ministry of Works and Development.

Clayton, J. (1993) Resource Evaluation and Operational Programme For Lakeweed: The Upper Clutha and Kawarau Catchment Areas. Prepared by NIWA Ecosystems for the Otago Regional Council.

Department of Conservation: Special Sites of Wildlife Interest.

Grindell, D.S. and P.A. Guest (eds) (1986) A list of Rivers and Lakes Deserving Inclusion in a Schedule of Protected Waters. Water and Soil Miscellaneous Publication, No. 97. National Water and Soil Conservation Authority, Wellington.

Grindell, D.S. (1984) A National Inventory of Wild and Scenic Rivers. Water and Soil Miscellaneous Publication, No. 68. National Water and Soil Conservation Authority, Wellington.

Kenny, J.A. and B.W. Hayward (eds) (1993) Inventory of Important Geological Sites and Landforms in the Otago region. Geological Society of New Zealand Miscellaneous Publication No. 77. Geological Society of New Zealand, Lower Hutt.

Lake Wanaka Preservation Act 1973.

Local Water Conservation (Lake Tuakitoto) Notice 1991.

Ministry for the Environment (1997) Water Conservation (Kawarau) Order 1997.

Water and Soil Conservation Authority (1982) A Draft for a National Inventory of Wild and Scenic Rivers. Part 1 - Nationally Important Rivers. Water and

SCHEDULE 1A: NATURAL VALUES

Soil Miscellaneous Publication, No. 97. National Water and Soil Conservation Authority, Wellington.

SCHEDULE 1AA: OTAGO RESIDENT NATIVE
FRESHWATER FISH THREAT STATUS

1AA Schedule of Otago Resident Native Freshwater Fish - Threat Status

Common name	Scientific name	Threat Status
Lowland longjaw galaxias	<i>Galaxias cobitinis</i>	Nationally Critical*
Canterbury mudfish (Kōwaro)	<i>Neochanna burrowsius</i>	Nationally Critical
Teviot flathead galaxias	<i>Galaxias</i> 'Teviot'	Nationally Critical*
Dusky galaxias	<i>Galaxias pullus</i>	Nationally Endangered*
Alpine galaxias	<i>Galaxias</i> aff. <i>paucispondylus</i> 'Manuherikia'	Nationally Endangered*
Eldon's galaxias	<i>Galaxias eldoni</i>	Nationally Endangered*
Central Otago roundhead galaxias	<i>Galaxias anomalus</i>	Nationally Vulnerable*
Clutha flathead galaxias	<i>Galaxias</i> sp. D.	Nationally Vulnerable*
Smeagol galaxias	<i>Galaxias</i> aff. <i>gollumoides</i> 'Nevis'	Nationally Vulnerable*
<i>Longfin eel (tuna)</i>	<i>Anguilla dieffenbachii</i>	Declining
Giant kokopu (Taiwharu)	<i>Galaxias argenteus</i>	Declining
<i>Galaxias gollumoides</i>	<i>Galaxias gollumoides</i>	Declining
Lamprey (kanakana)	<i>Geotria australis</i>	Declining
<i>Torrentfish (Piripiripōhatu)</i>	<i>Cheimarrichthys fosteri</i>	Declining
Koaro	<i>Galaxias brevipinnis</i>	Declining
Inanga (inaka)	<i>Galaxias maculatus</i>	Declining
Bluegill bully	<i>Gobiomorphus hubbsi</i>	Declining
Redfin bully	<i>Gobiomorphus huttoni</i>	Declining

*NB: Fish marked with an * are only found in the Otago Region.

1B Schedule of water supply values

This schedule identifies existing water takes from lakes and rivers, where the water taken is used for public water supply purposes. The communities identified in the schedule have come to rely upon these water supplies to provide for their social, economic and cultural well being. Rule 12.1.3.1 provides for replacement consents for these takes as a controlled activity, to provide certainty for these communities. The water takes are identified by geographic subregion and by individual water bodies within each subregion (see Maps A1–A8 for subregions and site locations).

Water is also taken for private water supply throughout Otago, particularly for domestic supply to dwellings such as farm homesteads and associated buildings, usually without treatment. It is also consumed without treatment by musterers, anglers, trampers, cyclists, hunters and other backcountry users. Areas with a high degree of naturalness, identified in Schedule 1A, will often contain water bodies with relatively pristine water quality. Those that utilise the water without treating it take the risk that it may contain giardia or other pathogenic (disease causing) organisms.

North Otago subregion

Water body or Catchment	Site No.	Water Supply Values
Kakanui River (note, the shallow aquifer forms an integral part of the water body)	1	Windsor and Dunrobin Water Supplies at J41:325737
	2	Weston and Enfield Water Supplies at J41:381667
	3	Reidston Water Supply at J42:405595
	4	Kakanui Water Supply at J42:430581
Kauru River	5	Kauru Hill Water Supply at J41:314637
Kurinui Creek a.k.a. Big Kuri Creek	6	Hampden-Moeraki Water Supply at J42:364413
Shag River (Waihemo) (note, the shallow aquifer forms an integral part of the water body)	7	Dunback Water Supply at I43:274279
	8	Palmerston (including Blue Mountain) Water Supply at J43:317237
	9	Goodwood Water Supply at J43:343234
Waianakarua River	10	Herbert-Waianakarua Water Supply at J42:339507

Maniototo subregion

Water body or Catchment	Site No.	Water Supply Values
Sow Burn	11	Patearoa Water Supply at H42:786435
Ewe Burn	12	Ranfurly Water Supply at H41:800689, H41:836770 and H41:794684

Central Otago subregion

Water body or Catchment	Site No.	Water Supply Values
Clutha River/Mata-Au <i>between Alexandra and Lake</i>	13	Clyde Water Supply at G42:199521
	14	Cromwell Water Supply at G41:120670

SCHEDULE 1B: WATER SUPPLY VALUES

Water body or Catchment	Site No.	Water Supply Values
<i>Wanaka (including Lake Dunstan)</i>		
Manuherikia River catchment	15	St Bathans Water Supply at H40:592926 and H40:602938
	16	Omakau and Ophir Water Supplies at G41:427626

Lakes subregion

Water body or Catchment	Site No.	Water Supply Values
Lake Wakatipu	17	Queenstown Water Supply from E41:666653 and F41:719664
Lake Hayes Tributary	18	Lake Hayes Water Supply at F41:794738
Lake Wanaka	19	Wanaka Water Supply at F40:033062 and F40:013057
Lake Hawea	20	Hawea Water Supply at G40:123153

Roxburgh subregion

Water body or Catchment	Site No.	Water Supply Values
Clutha River/Mata-Au <i>between Alexandra and Island Block</i>	21	Roxburgh Hydro Village Water Supply at G43:225194
Benger Burn	22	Ettrick Water Supply at G43:198030

Waikouaiti/Lammermoor subregion

Water body or Catchment	Site No.	Water Supply Values
Deep Stream	23	Dunedin Water Supply at H44:677992
Deep Creek	24	Dunedin Water Supply at H43:665037
Fortification Creek Dam	25	Hindon Water Supply at I44:906923
Waikouaiti River	26	Waikouaiti Water Supply at I43:232079
Waikouaiti River	27	Mt Pleasant-Stoneburn Water Supply at I43:155263

Coastal subregion

Water body or Catchment	Site No.	Water Supply Values
Water of Leith	28	Dunedin Water Supply at I44:152820 (Ross Creek)
	29	I44:153833 (Nicols Creek);
	30	I44:160843 (Lower Morrisons Creek)
	31	I44:153849 (Upper Morrisons Creek); and
	32	I44:164857 (West Branch)
Sullivans Dam	33	Dunedin Water Supply at I44:172863
Rossville Reservoir	34	Port Chalmers Water Supply at I44:233865 (Rossville intake); and
	35	I44:227879 (Cedar Farm intake)

SCHEDULE 1B: WATER SUPPLY VALUES

Waitati River	36	Dunedin Water Supply at I44:158883 (Burns Creek); I44:160873 (Jeffersons Creek); and I44:159870 (Williams Creek)
	37	
	38	
Wetherstons Creek	39	Waitati Water Supply at I44:201882

Taieri/Clutha Plains subregion

Water body or Catchment	Site No.	Water Supply Values
Taieri River <i>between Outram and Henley</i>	40	Outram Water Supply at I44:955804
Mill Creek	41	West Taieri Water Supply at H44:833730
Meggat Burn	42	North Bruce Water Supply at H45:743693
Silver Stream catchment	43	Dunedin Water Supply at I44:096859; I44:105844; I44:105848; and I44:105850
	44	
	45	
	46	
Tokomairiro River East Branch	47	Milton Water Supply at H45:746529
Clutha River/Mata-Au <i>between Balclutha and the sea</i>	48	Bruce Water Supply at H46:619343 Kaitangata and Wangaloa Water Supplies at H46:667308
	49	
Puerua River	50	Richardson Water Supply at H46:510257

Southwest Otago subregion

Water body or Catchment	Site No.	Water Supply Values
Pomahaka River	51	Glenkenich Water Supply at G44:103754 <i>[Repealed – 1 June 2015]</i>
	52	
Waipahi River	63	Waipahi Rural Stock Water Supply at G45:196488
Timber Creek	53	Moa Flat Water Supply at G43:172033
Greens Creek	54	Rural Water Supply at G44:104752
Unnamed tributary of Flodden Creek a.k.a. Whisky Gully	55	Tapanui Water Supply at G45:223660
Back Stream West Branch	56	<i>[Repealed – 1 June 2015]</i>
Clutha River/Mata-Au <i>between Island Block and Balclutha</i>	57	Richardson Water Supply at G45:491435 Balclutha Water Supply at H46:580363
	58	
Waitahuna River	59	Balmoral 1 and 2 and Tuapeka East Water Supplies at H45:523564
Bungtown Creek	60	Lawrence Water Supply at H44:573773
Tuapeka River	61	Tuapeka Water Supply at G44:491742
Bluejacket Gully	62	Lawrence Water Supply at H44:543747

1C Schedule of registered historic places

This schedule identifies registered historic places which occur in, on, under or over the beds or margins of Otago's lakes and rivers. Historic places are an important cultural resource as they provide links with Otago's history and heritage.

There are other sites, buildings, places and areas of heritage value on the beds or margins of Otago rivers or lakes that are not identified in this schedule. The New Zealand Historic Places Trust retains information about important but unregistered historic values.

The registered historic places are identified by geographic subregion and by individual water bodies within each subregion (see Maps A1–A8 for subregions).

North Otago subregion

Water body	Registered Historic Places
Oamaru Creek	Japanese Red Bridge, Oamaru Public Gardens Thames Street Bridge, Thames Street, Oamaru
Kakanui River	Clarks Flourmill, including dam, gate and race, SH 1, Maheno
McCormicks Creek	McCormick's Creek Bridge, SH 85, Dunback
Waianakarua River North Branch	Graves Dam, Breakneck Road, Waianakarua Turnbull Thompson Bridge, SH 1, Waianakarua
Waianakarua River South Branch	Waianakarua Bridge, SH 1, Waianakarua

Maniototo subregion

Water body	Registered Historic Place
Hog Burn	Naseby Historic Area, Naseby – various culverts and crossings in or over the river

Central Otago subregion

Water body	Registered Historic Places
Clutha River/Mata-Au <i>between Alexandra and Lake Wanaka</i>	Bridge Piers, SH8, Alexandra Earnsclough Bridge and Piers, Clyde
Manuherikia River	Shakey Bridge, Alexandra Daniel O'Connell Bridge, Ophir Bridge Road–, Ophir
Lake Dunstan	Old Bannockburn Bridge Foundations (submerged). Cromwell Bridge, Cromwell

SCHEDULE 1C: REGISTERED HISTORIC PLACES

Lakes subregion

Water body	Registered Historic Places
Kawarau River	Kawarau Falls bridge and dam, Frankton, Queenstown Kawarau Gorge Suspension Bridge, SH 6, Gibbston
Luggate Creek	Luggate Flourmill, Luggate
Horne Creek	Horne Creek Bridge, Ballarat Street, Queenstown
Shotover River	Oxenbridge Tunnel, Arthurs Point, Queenstown Edith Cavell Bridge, Arthurs Point, Queenstown
Mill Creek	Wakatipu Flourmill Complex, Speargrass Flat Road. Butel's Flourmill, Millbrook
Murdochs Creek	Bullendale Battery and Dynamo, Skippers catchment
Stony Creek	"Murphy's Creek" suspended pipe over Stony Creek, Skippers catchment

Roxburgh subregion

Water body	Registered Historic Places
Clutha River/Mata-Au <i>between Alexandra and Island Block</i>	Four Span Steel Truss Bridge, Millers Flat Old bridge piers at Roxburgh, adjacent to current bridge

Strath Taieri subregion

Water body	Registered Historic Place
Taieri River <i>between Tiroiti and Pukerangi</i>	Hyde Bridge, SH 87, Hyde

Coastal subregion

Water body	Registered Historic Places
Water of Leith	George Street Bridge, George Street, Dunedin Cast Iron Footbridge, University of Otago, Dunedin Stone Bridge, University of Otago, Dunedin
Ross Creek	Earth Dam, Burma Road, Dunedin Valve Tower and Jetty, Burma Road, Dunedin

Taieri/Clutha Plains subregion

Water body	Registered Historic Places
Clutha River Mata-Au <i>between Balclutha and the sea</i>	Blair Railway Bridge, SH 91, Balclutha Balclutha Bridge, SH 1, Balclutha
Pioneer Stream and Reef Creek	Otago Pioneer Quartz Historic Reserve containing many relics of former mining activity

1D Schedule of spiritual and cultural beliefs, values and uses of significance to Kai Tahu

This schedule identifies the spiritual or cultural beliefs, values or uses associated with water bodies of significance to Kai Tahu. The values are identified by geographic subregion and by individual water bodies, or groups of water bodies, within each subregion (see Maps A1–A8 for subregions). Note that the codes for these values are given in Table 4. Kai Tahu provided the information that appears in this schedule.

Where an activity will require a resource consent, Policy 5.4.2 will apply. This means that where an activity is to occur with respect to any water body for which this schedule identifies a particular spiritual or cultural belief, value or use, it may be necessary for the applicant to consult with Kai Tahu in a manner which is consistent with that set out in the document “Kai Tahu Ki Otago - Natural Resource Management Plan”.

Table 4: Code for Kai Tahu beliefs, values and uses ascribed to water bodies

Code	Mana Interests:
MA1	Kaitiakitanga – the exercise of guardianship by Kai Tahu in accordance with tikanga Maori* in relation to Otago’s natural and physical resources; and includes the ethic of stewardship.
MA2	Mauri – life force; for example the mauri of a river is most recognisable when there is abundance of water flow and the associated ecosystems are healthy and plentiful; a most important element in the relationship that Kai Tahu have with the water bodies of Otago.
MA3	Waahi tapu and/or Waiwhakaheke – sacred places; sites, areas and values associated with water bodies that hold spiritual values of importance to Kai Tahu. (Note: Kai Tahu should be consulted regarding the location of these places, sites areas and values for a river identified as MA3).
MA4	Waahi taoka – treasured resource; values, sites and resources that are valued and reinforce the special relationship Kai Tahu have with Otago’s water resources.

Code	Access/Customary Use Interests:
MB1	Mahika kai – places where food is procured or produced. Examples in the case of waterborne mahika kai include eels, whitebait, kanakana (lamprey), kokopu (galaxiid species), koura (fresh water crayfish), fresh water mussels, indigenous waterfowl, watercress and raupo.
MB2	Kohanga – important nursery/spawning areas for native fisheries and/or breeding grounds for birds.
MB3	Trails – sites and water bodies which formed part of traditional routes, including tauraka waka (landing place for canoes).
MB4	Cultural materials – water bodies that are sources of traditional weaving materials (such as raupo and paru) and rongoa (medicines).
MB5	Waipuna – sources of water highly regarded for their purity, healing and health-giving powers.

* the correct way of doing things, according to custom.

SCHEDULE 1D: KAI TAHU VALUES

North Otago subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Awamoko Stream			✓	✓	✓		✓	✓	
Landon Creek				✓					
Awamoa Creek				✓				✓	
Waiareka Creek				✓	✓		✓	✓	
Kakanui River	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oamaru Creek				✓	✓			✓	
Kakaho Creek				✓				✓	
Kurinui Creek a.k.a. Big Kuri Creek				✓			✓	✓	
Ngutukaka Creek				✓					
Waiherowhero Creek				✓					
Waimataitai				✓	✓			✓	
Creeks between Waimataitai & Shag Point/Matakaea				✓					
Stony Creek				✓	✓	✓			
Bobbys Head Creek			✓	✓					
Most creeks between Bobbys Head & Pleasant River				✓					
Shag River (Waihemo)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Waianakarua River	✓	✓		✓	✓	✓	✓	✓	✓
Pleasant River			✓	✓	✓	✓	✓	✓	
Trotters Creek	✓	✓		✓	✓	✓	✓	✓	✓

Maniototo subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Taieri River, upstream of Tiroiti	✓	✓	✓	✓	✓	✓	✓	✓	
Streams on the west-facing slopes of the Rock and Pillar Range, excluding Logan Burn				✓	✓				
Kye Burn	✓	✓	✓	✓	✓	✓	✓	✓	

Central Otago subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Clutha River/Mata-Au between Alexandra and Lake Wanaka	✓	✓	✓	✓	✓	✓	✓	✓	
Manuherikia River	✓	✓	✓	✓	✓	✓	✓	✓	
Moa Creek				✓					
Other Manuherikia tributaries	✓	✓	✓	✓	✓	✓	✓	✓	
Little Bremner Creek				✓					
Earnsclough or Fraser River				✓					
Bannock Burn				✓					
Lindis River				✓			✓	✓	
Cardrona River	✓	✓	✓	✓	✓	✓	✓	✓	

SCHEDULE 1D: KAI TAHU VALUES

Lakes subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Kawarau River <i>between Lakes Dunstan and Wakatipu</i>	✓	✓		✓			✓	✓	
Lake Hayes				✓	✓				
Lake Wakatipu	✓	✓	✓	✓	✓	✓	✓	✓	
Diamond Lake, Diamond Creek and Lake Reid				✓					
Dart River/Te Awa Whakatipu	✓	✓	✓	✓	✓	✓	✓	✓	
Route Burn	✓	✓	✓	✓	✓	✓	✓	✓	
Greenstone River, Caples River	✓	✓	✓	✓	✓	✓	✓	✓	
Lochy River				✓					
Streams flowing to Lake Wakatipu between Halfway Bay and Elfin Bay, including Von River				✓					
Lake Wanaka	✓	✓	✓	✓	✓	✓	✓	✓	
Matukituki River	✓	✓	✓	✓	✓	✓	✓	✓	
Streams flowing off West Wanaka, including Albert Burn				✓	✓				
Makarora River	✓	✓		✓	✓	✓	✓	✓	
Lake Hawea	✓	✓	✓	✓	✓	✓	✓	✓	
Hunter River	✓	✓	✓	✓	✓	✓	✓	✓	
Dingle Burn				✓					
Timaru River				✓					
Hawea River	✓	✓		✓	✓	✓	✓	✓	
Shotover River	✓	✓		✓	✓	✓	✓	✓	
Arrow River	✓	✓		✓	✓	✓	✓	✓	
Roaring Meg	✓	✓	✓	✓			✓		
Nevis River	✓	✓	✓	✓			✓		

Roxburgh subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Clutha River/Mata-Au <i>between Alexandra and Island Block</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Teviot River					✓				
Lake Onslow				✓	✓				
Minzion Burn				✓					

Strath Taieri subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Great Moss Swamp				✓	✓				
Red Swamp Creek				✓					
Taieri River <i>between Tiroiti and Pukerangi</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Nenthorn Stream	✓	✓	✓	✓	✓	✓	✓	✓	
Deighton Creek				✓					

SCHEDULE 1D: KAI TAHU VALUES

Streams flowing on west side of Taieri Ridge				✓					
Lug Creek, Wandle Creek and other streams flowing on the east side of the Rock and Pillar Range				✓					

Waikouaiti/Lammermoor subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Taieri River <i>between Pukerangi and Outram</i>	✓	✓	✓	✓	✓	✓		✓	
Three O'clock Stream				✓					
Lee Stream	✓	✓	✓	✓	✓	✓	✓	✓	
Ross Stream				✓					
Deep Stream (and Deep Creek)	✓	✓	✓	✓	✓	✓		✓	
Waikouaiti River (excluding South Branch)	✓	✓	✓	✓	✓	✓	✓	✓	
Waikouaiti River South Branch	✓	✓		✓	✓	✓	✓	✓	
Lower Waikouaiti River (estuary and tidal zone)			✓	✓	✓	✓	✓	✓	
Hawksbury Lagoon			✓	✓	✓	✓		✓	
Streams between Karitane & Yellow Bluff (Te Pa Hawea)				✓					

Coastal subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Streams between Summer Hill and Brighton, excluding Taieri and Tokomairi River main stems			✓	✓					
Akatore River			✓	✓	✓	✓	✓	✓	
Lower Tokomairi River main stem	✓	✓	✓	✓	✓	✓	✓	✓	
Taieri River <i>between Henley and the sea</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Unnamed tributary of the Taieri River a.k.a. Takitakitoa Stream	✓	✓		✓	✓	✓		✓	
Otokia Creek	✓	✓	✓	✓	✓	✓	✓	✓	
Deep Creek (Omimi)				✓			✓		
Evansdale Creek				✓					
Kaikorai Stream	✓	✓	✓	✓	✓	✓	✓	✓	
Otago Peninsula streams	✓	✓	✓	✓	✓	✓		✓	✓
Water of Leith			✓	✓					
Waitati River				✓					

SCHEDULE 1D: KAI TAHU VALUES

Taieri/Clutha Plains subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Taieri River <i>between Outram and Henley</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Lakes Waipori and Waihola, Sinclair Wetlands	✓	✓	✓	✓	✓	✓	✓	✓	✓
Contour Channel and other West Taieri hill streams					✓				
Waipori River				✓	✓				
Silver Stream	✓	✓	✓	✓	✓	✓	✓		
Owhiro Stream	✓	✓		✓	✓	✓	✓	✓	
Upper Tokomairiro River main stem					✓				
Lovells Stream					✓				
Lake Tuakitoto	✓	✓		✓	✓	✓	✓	✓	
Clutha River/Mata-Au <i>between Balclutha and the sea</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Waitepeka River, Puerua River including Glenomaru Stream tributary				✓	✓	✓	✓		

Southwest Otago subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Pomahaka River	✓	✓	✓	✓	✓	✓	✓	✓	
Waiwera River					✓				
Clutha River/Mata-Au <i>between Island Block and Balclutha</i>	✓	✓	✓	✓	✓	✓	✓	✓	
Waitahuna River					✓				
Waipahi River (lower stretches within Otago region)	✓	✓	✓	✓	✓	✓	✓	✓	

Catlins subregion									
Water body	MA1	MA2	MA3	MA4	MB1	MB2	MB3	MB4	MB5
Catchments between Fleming River and Longbeach Creek (excluding Tautuku River)			✓	✓	✓				
Tautuku River			✓	✓					
Tahakopa River	✓	✓	✓	✓	✓	✓	✓	✓	
Maclennan River	✓	✓		✓	✓	✓	✓	✓	
Catlins River	✓	✓		✓	✓	✓	✓	✓	
Owaka River	✓	✓		✓	✓	✓	✓	✓	
Karoro Creek			✓	✓	✓				