

**Aquatic habitats with
indigenous floristic or
faunistic value in the
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TABLE OF CONTENTS

	PAGES
1.0 INTRODUCTION	1
2.0 DEFINITIONS AND SCOPE	1
3.0 INDIGENOUS SPECIES AND HABITAT RANKINGS	2
4.0 DATA SOURCES	3
5.0 ECOLOGICALLY SIGNIFICANT AQUATIC HABITATS IN CANTERBURY	5
6.0 ACKNOWLEDGEMENTS	26
7.0 LITERATURE CITED	26

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1.0 INTRODUCTION

Databases on ecologically significant habitats in Canterbury are maintained by various government departments, research institutes, and local authorities. Typically these data have disparate formats, ecological criteria and scope. The aim of this document is to rationalise, integrate, and standardise aquatic habitat databases within the Canterbury region into a register with a common format and a consistent set of ecological criteria. Its intended use is to provide resource managers with an integrated data set of ecologically significant aquatic habitats based on the presence of a wide range of native animal and plant species.

2.0 DEFINITIONS AND SCOPE

The Canterbury Regional Council's northern boundary includes part of the Clarence River catchment, and the southern boundary is the Waitaki River catchments except south side tributaries east of Awamoko Stream. The ridge-line of the Main Divide and the Pacific Ocean form the western and eastern boundaries respectively (Fig. 1). This region differs from the Canterbury Conservancy (Department of Conservation) by extending farther north beyond the Conway River to include the Clarence River catchment.

The term "indigenous" is synonymous with "native", i.e. a species not deliberately introduced. The term "aquatic" is interpreted as synonymous with "wetland", the latter defined in the Resource Management Act (RMA) as...

"Wetland" includes permanently or intermittently wet areas, shallow water, and land water margins that support a natural ecosystem of plants and animals that are adapted to wet conditions.

The definition provided by Cromarty (1996) lists a range of possible habitat types.

"Areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres."

In this document, the RMA definition of wetland is applied, although all wetlands in Canterbury would probably qualify under both definitions. Notably, the definition of 'wetland' and 'aquatic habitats' is taken to include both man-made water bodies (e.g. hydro lakes, and residual rivers), and areas which are merely wet, without necessarily containing free water. Marine habitats with ecological values are also considered as aquatic habitats, in particular ASCV's (Areas of Significant Conservation Value).

The definition of a wetland plant species was inclusion in Johnson and Brooke (1989).

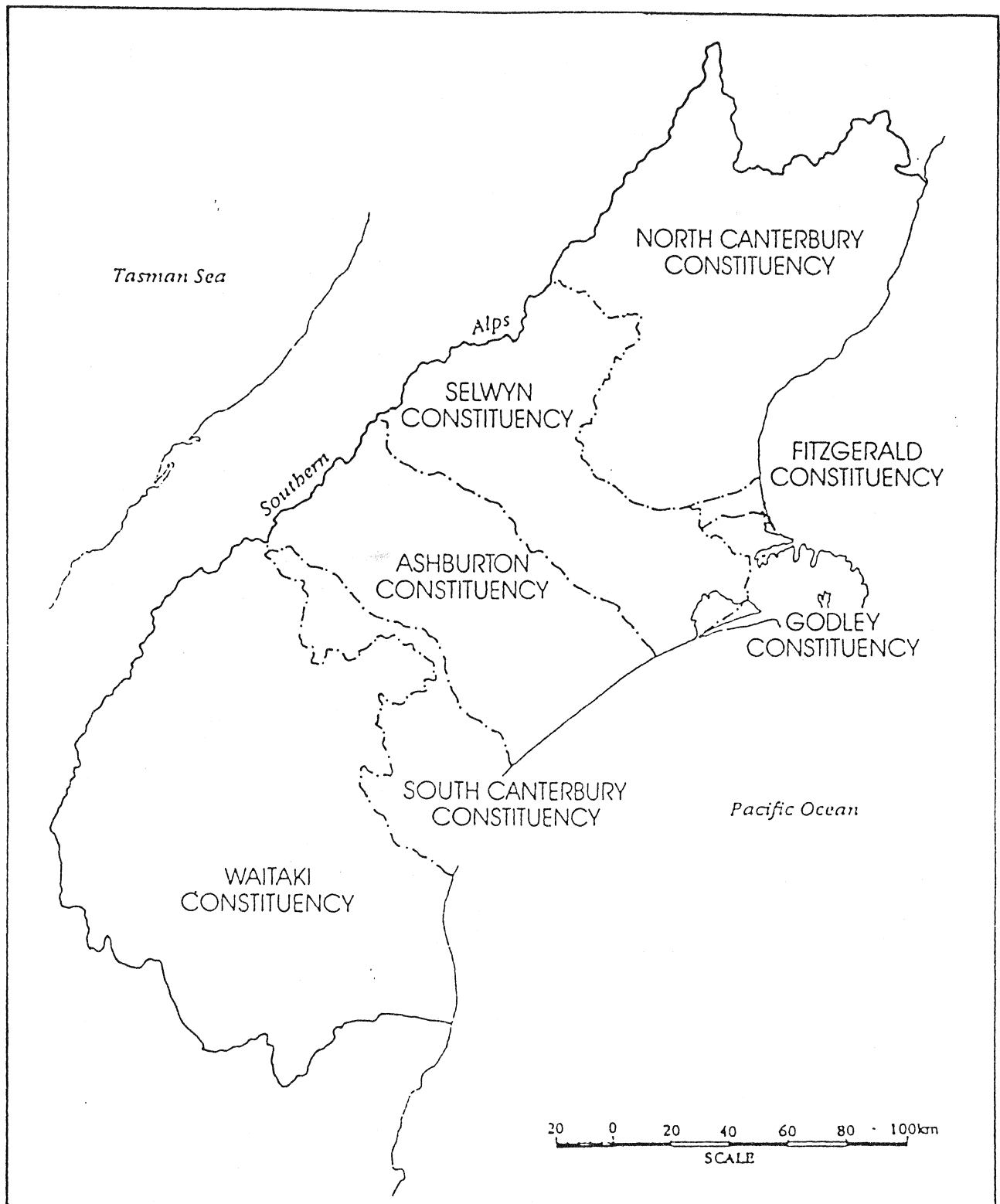


FIGURE 1. The Canterbury Regional Council's administrative area.

3.0 INDIGENOUS SPECIES AND HABITAT RANKINGS

Ecological significance rankings, based mainly on rarity, were assigned to indigenous species in the Canterbury region (Table 1). Aquatic habitats were then ranked according to the rarest species present. In this way, habitats were ranked by a defined set of criteria - the ecological value of the flora and fauna associated with them. While this 'desktop' method may be consistent in its approach, it suffers from a number of biases. Firstly, it is solely dependant on the integrity of the underlying databases, although efforts were made to obtain the most up-to-date versions. Secondly, in the absence of abundance data, numerous sightings of widely dispersed rare species (e.g. blue duck) inevitably lead to a proliferation of highly ranked habitats, many of which may not deserve high rank. The answer to this problem lies in data collection and expert assessment in the field. We, as compilers, do not have the liberty to rationalise these records any further than removing duplicates from essentially the same location. However, the Canterbury Regional Council is provided with an Excel 5.0 spreadsheet version of Table 3, and can modify this as they choose.

The Red Data Book of New Zealand (Williams and Given 1981) provides a short list of extinct, and almost extinct species in Canterbury, but this reference was not useful for ranking extant species habitats. Consequently, several experts, based on their experience, augmented the ranking list of rare fauna and flora in the Canterbury Region (Table 1). Although aquatic habitats are the focus of this data set, important terrestrial habitats for rare aquatic birds are also included (e.g. nesting sites).

Table 1. Ranking of indigenous aquatic flora and fauna species in Canterbury.

Rank 1: Critically endangered species (mostly endemic)

Plants

Amphibromus fluitans, *Helichrysum dimorphum*, *Tolypella nidifica*, *Cardamine 'tarn'*

Fish

Longjawed galaxias, dwarf galaxias, alpine galaxias, Canterbury mudfish, giant kokopu

Birds

Blue duck, black stilt, white heron, reef heron, southern crested grebe, Hutton's shearwater, yellow-eyed penguin

Rank 2 Declining species (or their associated habitats) in Canterbury

Plants

Crassula penduncularis, *Crassula ruamahanga*, *Gratiola nana*, *Plantago obconica*, *Baumea rubiginosa*

Invertebrates

Freshwater crayfish (Koura)

Fish

Stokells smelt, shortfinned eel (where habitats commercially unexploited), inanga spawning grounds, redfinned bully, banded kokopu (where population numbers high).

Birds

Australasian bittern, black-billed gull, caspian tern, little blue penguin, wrybill, marsh crake, pukeko, sooty shearwater, black-fronted tern, white-fronted tern, NZ Scaup, spotted shag, Australian coot

Rank 3. Vulnerable species

Plants

Mazus novaezeelandiae, *Isolepis basilaris*, *Iphigenia novae-zelandiae*, *Urtica linearifolia*, *Triglochin palustre*

Birds

Little shag, pied shag, pied stilt, banded dotterel, variable oystercatcher, pied oystercatcher (SI oystercatcher), white-winged black tern, black-fronted dotterel, shoveler duck, grey teal, royal spoonbill

4.0 DATA SOURCES

The Department of Conservation (DOC) administers most databases concerned with indigenous flora and fauna, including a data set called 'Sites of Natural Significance' (SNS). This database lists habitats of scarce indigenous flora and fauna, and conveniently combines important habitats from many other database sources. These site databases include 'recommended areas for protection (RAP), 'wetlands of ecological and representative importance (WERI), and habitats of 'special significance to wildlife' (SSWI). Also included are areas of the Plains Reconnaissance Survey (PLAINS). DOC also maintains a specialised database on blue duck habitats, with a current version held at their Tory Street research facility in Wellington. DOC also maintains a reserves database which includes several aquatic

faunistic, nature, wildlife, and scientific reserves or habitats that have a Queen Elizabeth II Covenant.

The Canterbury Regional Council (CRC) holds copies of a number of databases in GIS (Geographical Information System) format, provided by DOC, and CRI's (Crown Research Institutes). This includes threatened, and endangered plant habitats from the CRI Landcare database, and coastal ASCV (areas of significant conservation value) provided by DOC. However, midpoints of the ASCV areas were obtained from the Notified Regional Coastal Environment Plan (Canterbury Regional Council 1994). Ecological status rankings were not assigned to ASCV's where data on flora and fauna was not available.

Further, and more recent information on rare and endangered indigenous aquatic plant habitats was obtained from the Landcare herbarium records (CHR), and rare plants database (RARE). NIWA staff in Hamilton also provided an additional plant record (the charophyte *Tolypella nidifica*) which is indigenous to Lake Forsyth. Plant habitats were also included if species were cited in the 1995 revision of the threatened and local plant lists by the N.Z Botanical Society (Cameron ; deLange *et al* 1995). This reference is considered more up-to-date than the Red Data Book, although ranking categories do follow the Red Data Book ecological status criteria (Williams and Given 1981). A complete listing of status levels assigned to aquatic plants, fish, and birds is provided in Table 1, including *Helichrysum dimorphum* which although not aquatic, has strong associations with wetlands. Except for *H. dimorphum*, all other plants are described in Johnson and Brooke (1989).

A recent publication published by DOC (Cromarty 1996), comprises part of the Directory of Wetlands in Oceania, a project supported by the International Waterfowl and Wetlands Research Bureau, and a number of other international environmental bodies concerned with wetlands. The primary objective of this publication was to compile an inventory of the most important wetlands in New Zealand from the point of nature conservation. The ecological significance of many of these and other aquatic habitats was identified in Grindell and Guest (1986), and O'Donell and Moore (1983).

Data on koura (freshwater crayfish) and indigenous fish habitats was obtained from the National Freshwater Fish Database, and the inanga spawning database, both administered by NIWA. Further inanga spawning habitats were found listed in the SNS database. All habitats of extant freshwater fishes listed in the Red Data Book (Williams and Given 1981) have been included.

Table 2 provides a key of data sources referred to in the list of significant aquatic habitats (Table 3).

Table 2. Key to data source abbreviations in Table 3.

Abbreviation	Full title
CRC Res	CRC Reserves database
CRC EP	CRC Endangered Plants
CRC TP	CRC Threatened Plants
CRC RCEP	CRC Notified Regional Coastal Environment Plan
DOC BD	DOC Blue duck database (Tory St, Wellington)
DOC PNAP	DOC Protected Natural Area Programme
DOC PS	DOC Plains survey
DOC RAP	DOC Recommended Area for Protection
DOC SNS	DOC Sites of Natural Significance
DOC SSNV	DOC Sites of Significant Natural Value
DOC SSWI	DOC Sites of Significant Wildlife Importance
DOC WERI	DOC Wetlands of Ecological or Representative Importance
DWNZ	Directory of Wetlands in New Zealand
GG	Grindell and Guest (1986)
Land CHR	Landcare herbarium records
Land RARE	Landcare Rare plants database
NIWA Fish	NIWA National Freshwater Fish Database
NIWA Sp	NIWA Inanga Spawning Database
RPNANZ	Register of Protected Natural Areas of New Zealand

5.0 ECOLOGICALLY SIGNIFICANT AQUATIC HABITATS IN CANTERBURY

Ecologically significant habitats are tabulated and sorted by river catchment, from the Clarence River in the north, to the Waitaki River in the south (Table 3). Within each catchment, sites are sorted by metric map number and then by northing.

For each site, a number of species are listed, of which one, usually the rarest, determines the ecological status of the respective site. Each site has at least one species listed in Table 1. However other species not listed in Table 1, may be provided in Table 3 to reflect the site's species diversity, although this attribute alone does not elevate its ecological ranking.

6.0 ACKNOWLEDGEMENTS

We would like to thank Joy Crombie and Duncan Cunningham from DOC for their assistance at accessing the RAP, SNV and Blue Duck databases. Paul Sagar provided expert assistance in ranking the indigenous bird habitats, and a number of other NIWA staff assisted in rationalising indigenous fish values. Malcolm Main, and other Canterbury Regional Council staff commented on the draft manuscript, and Carol Whitiri formatted the finished document.

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Table 3. Ecologically significant habitats in Canterbury

Locality	Catchment	Status	Category	Species	Comments	Map	East	North	Data source
Lake Tennyson	Clarence River	3	Flora	Scenic Reserve	<i>Pilularia Nova-zealandiae</i>	m31	24895	58895	PNAP, WERI, GG
Mainstem	Clarence River	1	Fish, Flora	Dwarf galaxias		m31	24886	58881	NIWA FFDB, WERI, GG Faith Barber, DOC Kaikoura, pers. comm.
Mainstem	Clarence River	2	Fish	Redfinned bully	Location not known				
Severn River	Clarence River	1	Fish	Dwarf galaxias		n30	25146	58973	NIWA FFDB
Serpentine Creek	Clarence River	1	Fish	Dwarf galaxias		n30	24915	58906	NIWA FFDB
Palmer Stream braid	Clarence River	1	Fish	Alpine galaxias		o31	25311	58788	NIWA FFDB
River mouth	Clarence River	Not rated	ASCV		Midpoint of area only. Above waterfall. Only known site of shortjawed kokopu on the east coast, S.I.	p30	25890	58920	CRC RCEP Faith Barber, DOC Kaikoura, pers. comm.
Ohau Stream	Ohau Stream	1	Fish	Short-jawed kokopu		p31	25785	58845	pers. comm.
Coastline	Waipapa to Irongate stream	3	ASCV			p31	25810	58850	CRC RCEP
Rocky reefs	Kaikoura peninsula	1	ASCV	Reef heron, red-billed gulls, white-fronted terns, and fur seals	Site of reet heron, and nesting site for redbilled and whitefronted terns, also supports a major fur seal colony. The ASCV extends completely around Kaikoura Peninsula	o31	25690	58650	RPNANZ, CRC RCEP
South-western face of Mt Uwerau	Kowhai River	1	Nature Reserve, birds	Hutton's shearwater	Only known breeding area of Hutton's shearwater. Some floristic value	o31	25580	58840	RPNANZ
South Bay to Peketa	Kowhai River	Not rated	ASCV			o31	25620	58650	CRC RCEP
Ewelme Stream	Lake Rototiti	2	Flora, fish Bird, Wildlife Management	Shortfinned eel		o31	25587	58676	WERI, NIWA pers. comm.
Lake Rotorua	Kahutara River	1	Reserve	Southern crested grebe	Southern crested grebes identified here recently (P. Sagar pers. comm.)	o31	25580	58665	RPNANZ
Kahutara River to Oaro River	Kahutara River Oaro River to Haumari	Not rated	ASCV			o32	25530	58560	CRC RCEP
Te Kahika, Okarahia	Bluffs Whale, Dolphin &	Not rated	ASCV			o32	25520	58520	CRC RCEP
Okarahia - Claverly Ck	Hutttons Shearwater area	Not rated	ASCV	NZ Scaup, grey duck, little shag, and black shag		o32	25510	58480	CRC RCEP
Ferniehurst Pond	Conway River	3	Bird, Flora			o32	25365	58441	SSWI, WERI
River mouth lagoons	Conway River	Not rated	ASCV		This small river is regionally rare in providing an almost intact riparian border of indigenous vegetation from its headwaters to the mouth. The system is likely to have high indigenous fish values.	o32	25490	58440	CRC RCEP
Length of gully	Big Bush Gully	2	Flora, Fish	Banded kokopu		o32	25420	58385	PNAP, pers. obs.
Lake Guyon Outlet	Waiau River	1	Fish QEII Covenant scenic reserve	Alpine galaxias		m31	24795	58809	NIWA FFDB
Lake Guyon	Waiau River				Small lake and adjacent area of swamp on a river flat. Extremely valuable, much used by waterfowl, with large numbers of various species counted.	m31	24810	58797	PNAP, WERI, CRC Res
Little Lake	Waiau River	3	Bird	NZ Scaup, pied stilt, grey duck, shoveler duck, grey teal, SI pied oystercatcher		m31	24780	58747	SSWI, WERI
Henry River	Waiau River	1	Fish	Alpine galaxias		m31	24703	58729	NIWA FFDB
Stanley River	Waiau River	1	Fish	Alpine galaxias		m31	24788	58677	NIWA FFDB
Jones Stream	Waiau River	1	Fish	Alpine galaxias		m31	24757	58655	NIWA FFDB
Nina River	Waiau River	1	Fish	Alpine galaxias		m32	24589	58591	NIWA FFDB
Magdalen Wetlands	Waiau River	2	Bird	Pied stilt	Fenced habitat. A nearby tussock-fringed tarn in a valley depression has a similar bird fauna.	m32	24694	58564	SSWI, WERI
Woodbank swamp	Waiau River	2	Bird	Marsh crake	Swamp has flax, raupo, Carex and Juncus sp.	m32	24869	58517	SSWI
Doubtful River	Waiau River	1	Fish	Alpine galaxias		m32	24542	58515	NIWA FFDB

Horseshoe Lake and swamp	Waiau River	2 Bird	marsh crane, scaup, grey duck, black-backed gull		m32	24707	58454	SSWI,WERI
Glynn Wye Reservoir	Waiau River	2 Bird	SI pied oystercatcher, black-fronted tern, grey duck, , black-backed, and black-billed gull	Feeding, resting and breeding area for ducks, feeding for gulls and terns.	m32	24681	58452	SSWI,WERI
Kakapo Brook pond	Waiau River	3 Bird	Pied stilt, pied oystercatcher	Pond and swamp complex with Carex and raupo.	m32	24628	58414	SSWI,WERI
Mainstem	Waiau River	2 Bird,Fish QEII Conv rec reserve	SI pied oystercatcher, banded dotterel, black-fronted tern, NZ shoveler,	Moderately braided river with extensive shingle flats in parts.	n32	24127	58390	SSWI,NIWA FFDB
Opposite Waiau township	Waiau River			May not be regarded as an "aquatic" site.	n32	25121	58390	CRC Res
Marchmont swamp	Waiau River	2 Bird	Marsh crane, waterfowl		n32	24911	58494	SSWI,WERI
Brookdale wetland	Waiau River	3 Bird	Little Shag	Important for nesting little shag, pukeko also present.	o32	25354	58338	SSWI,WERI
Waiau River lagoon and mouth	Waiau River	Bird,Fish, QEII Covenant	Stokell's smelt, black-fronted tern,variable oystercatcher, banded dotterel, Shortfinned eel and possibly Canterbury mudfish. Chestnut-breasted shelduck,		o33	25406	58260	SSWI,WERI
St Annes Lagoon	Waiau River	2 Fish	Australasian coot	Mudfish released here, but probably north of its natural range. Present population status is not known.	o33	25320	58253	Main pers. comm.
Waiau River	Waiau River	3 Flora	<i>Isolepis basilaris</i>	Moist sand (collected 1949)	o33			NIWA FFDB, SSWI, WERI, M. CHR
Shag Rock Coastline	Marine	Bird,Fur Seal, 2 ASCV	Sooty shearwater, tur seal, elephant seal,spotted shags, red-billed gulls, fairy prion	Approximately 10km of rocky coastline which supports proabably the largest NZ fur seal colony on east coast of NZ.	o33	25386	58210	SSWI, CRC RCEP
Estuary	Jed River	3 Bird,Flora	Banded dotterel, grey duck, grey teal, NZ shoveler, ,pied stilt.	Important habitat for migrating birds, and has notable ecological value for its saltmarsh vegetation. Also archeological value for Maori artifacts.	o33	25357	58182	SSWI, WERI,PNAP
Lake Marion	Hurunui River	Birds, Fish, 1 Faunistic reserve	Southern crested grebe, , Completely indigenouse fish fauna	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher. Totally indigenous fish fauna	I32	24471	58365	RPNANZ,SSWI,WERI, GG,
Loch Katrine	Hurunui River	1 Scenic Reserve	Southern crested grebe,	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	I32	24445	58315	DWNZ,SSWI,WERI,
Lake Mason	Hurunui River	1 Birds	Southern crested grebe,	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	I32	24420	58300	DWNZ,WERI
Lake Taylor	Hurunui River	1 Birds,Fish	Southern crested grebe, ,Shortfinned eel	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	I32	24470	58265	FFDB
Lake Mary	Hurunui River	1 Birds	Southern crested grebe, banded dotterel, scaup	Birds also include pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	I33	24484	58280	DWNZ, SSWI, WERI
Hurunui River	Hurunui River	1 Fish	Alpine galaxias		I33	24384	58279	NIWA FFDB
Hurunui River	Hurunui River	1 Fish	Alpine galaxias		I33	24311	58277	NIWA FFDB
Lake Sheppard	Hurunui River	1 Birds	Southern crested grebe,	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	I33	24490	58270	DWNZ, SSWI, WERI
Raupo pond	Hurunui River	1 Birds	Southern crested grebe,		I33	24495	58257	DWNZ, SSWI, WERI
North Esk River	Hurunui River	1 Fish	Alpine galaxias		I33	24356	58222	NIWA FFDB
Mandamus R	Hurunui River	1 birds	Blue duck		M32	24740	58320	DOC BD
Dove R	Hurunui River	1 birds	Blue duck		M32	24694	58319	DOC BD

Lake Sumner	Hurunui River	1 Birds	Southern crested grebe,	High Charophyte diversity, birds also include banded dotterel, scaup,pukeko,grey duck, black-billed gull,black-fronted tern, white-faced heron, SI pied oystercatcher	m32	24507	58315 DWNZ, SSWI, WERI
Silver Brook	Hurunui River	1 birds	Blue duck Grey teal, NZ snoveier, little, pied, and spotted shag, and variable oystercatcher. A total of 42 bird species recorded, including 19 wetland species.		M33	24713	58297 DOC BD
Mainstem	Hurunui River	2 Bird	Stokell's smelt, variable	A very important river for birds, including a number of species uncommon or absent from most Canterbury rivers ie.	m33	24898	58149 SSWI,WERI
Hurunui River lagoon	Hurunui River	2 Fish,Bird	oystercatcher,banded dotterel, black fronted		o33	25335	58110 NIWA FFDB,SSWI,WERI
Lower reaches	Blythe River	2 Bird	Banded dotterel pied stilt,black fronted tern,kingfisher, and little shag	Riverbed provides habitat for 27 spp. of birds	n33	25265	58089 SSWI,WERI
Napenape	Napenape	Not rated	ASCV		n33	25300	58060 CRC RCEP
Birds Pond	Black Birch Creek	3 Bird	Scaup, Grey duck, NZ shoveler	Man-made pond with good waterfowl species diversity	n33	25193	58038 SSWI,WERI
River mouth	Motanau River	3 Bird	Pied shag	Important breeding site for pied shag on East Coast of South Island	n34	25165	57954 SSWI
Motanau Island	Motanau River	1 Bird, Nature	Reserve, ASCV	Small island with breeding population of white-faced storm petrel, and blue penguin, fairy prion, and sooty shearwater, variable oystercatcher, and whitefronted terns.	n34	25162	57938 SSWI, CRC RCEP
Cliffs	Motanau River	Not rated	ASCV		n34	25165	57945 CRC RCEP
Lower Waipara Gorge	Waipara River	2 Bird	Australasian bittern, black-fronted dotterel, redcapped dotterel.	Moderate wildlife status for the riverbed.	n34	24918	57889 DOC SNS
Amberley beach	Waipara River	3 Flora	<i>Urtica linearifolia</i>	Coastal swamp (collected 1954)	n34	24953	57853 CHR
Lagoon and mouth	Waipara River	2 Bird, Fish	Wrybill, banded dotterel, SI oystercatcher, stokell's smelt	Unstable mouth of small braided river providing tidal lagoons with high-quality habitat for a range of waterfowl and wader species.	n34	24940	57848 SSWI,WERI,NIWA FFDB
Amberley Beach Swamp	Waipara River	3 Birds	Scaup, pukeko, NZ shoveler	Raupo provide good areas of cover for waterfowl	n34	24922	57826 SSWI,WERI, PS
Waipara River	Waipara River	3 Flora	<i>Isolepis basilaris</i>	Growing in wet sandy areas (collected 1944)	n34		CHR
Woolshed Ck; Mt Grey	Kowai River	3 Flora	<i>Mazus novae-zelandiae</i>	Flax swamp near beach (collected 1940)	m34	24735	57875 CRC EP
Amberley	Kowai River	3 Flora	<i>Urtica linearifolia</i>		m34	24896	57843 CHR
Leithfield Lagoon	Kowai River	3 Birds	Pukeko, NZ shoveler	Raupo provide good areas of cover for waterfowl	m34	24900	57776 SSWI,WERI
Leithfield Beach paddock	Kowai River	3 Flora	<i>Mazus (pumilio) novae-zelandiae</i>	A small patch of <i>Mazus novae-zelandiae</i> found in a sandy paddock. This species is only known from a few sites in the South Island. The river meets RAMSAR convention criteria as a "wetland of international importance" especially for waterfowl.	m34	24896	57766 TP, CHR
Entire Ashley Riverbed	Ashley River	1 Birds	Wrybill, banded dotterel, black-fronted tern,	Major whitebait spawning ground	m34	24575	57726 SSWI, DWNZ
Benzies Ck' trib of Saltwater Ck	Ashley River	2 Fish spawning	Inanga spawning		m34	24861	57712 NIWA Sp
Woodend, near Kaiapohia	Ashley River	3 Flora	<i>Urtica linearifolia</i>	Base of Carex secta, under willow swamp (collected 1964)	m35	2484-	5766- CHR
Monument	Ashley River	3 Flora	<i>Urtica linearifolia</i>	Stream bank where willows have been felled, mud at streanside (collected 1971)	m35	24854	57675 CHR
Taranaki Creek, east of	Ashley River	2 Fish spawning	Inanga spawning		m35	24858	57580 NIWA Sp
Waikuku	Ashley River	3 Flora	<i>Urtica linearifolia</i>		m35	24858	57580 NIWA Sp
Saltwater Creek	Ashley River	2 Fish spawning	Inanga spawning		m35	24858	57580 NIWA Sp
Ashworths Ponds	Ashley River	3 Flora,Birds	<i>Mazus novaezeelandiae</i>	Bird species; little black shag, marsh crake	n34	24880	57710 SSWI,WERI
Lake Sarah, and swampy margins (Remus Swamp)	Waimakariri River	1 Birds, Flora	Southern crested grebe, marsh crake	Sarah important for Southern crested grebe, and large	l34	24103	57947 PNAP, DWNZ
Lake Pearson	Waimakariri River	1 Birds	Southern crested grebe, NZ Scaup, Australasian bittern	Raupo stand important for marsh crake	l34	24110	57947 PNAP, DWNZ
				Several pairs of grebe using the lake each year.	l34	24110	57890 PNAP, DWNZ, GG

Bealey River	Waimakariri River	1 Fish	Alpine galaxias		k33	23951	58009 NIWA FFDB
Edwards River	Waimakariri River	1 birds	Blue duck	20m from where river emerges from gravel	k33	24900	58086 DOC BD
Edwards River	Waimakariri River	1 birds	Blue duck		k33	24100	58076 DOC BD
Poulter R	Waimakariri River	1 birds	Blue duck	Upper Poulter Riverblw biv	k33	24098	58193 DOC BD
Hawdon River(East)	Waimakariri River	1 birds	Blue duck		k33	24094	58098 DOC BD
Hawdon R	Waimakariri River	1 birds	Blue duck		k33	24071	58082 DOC BD
Sudden Valley Stm	Waimakariri River	1 birds	Blue duck		k33	24056	58026 DOC BD
Waimakariri R	Waimakariri River	1 birds	Blue duck		k33	24015	58097 DOC BD
Edwards River	Waimakariri River	1 birds	Blue duck		k33	24010	58085 DOC BD
Hawdon River(East)	Waimakariri River	1 birds	Blue duck		k33	24000	58000 DOC BD
Edwards River	Waimakariri River	1 birds	Blue duck	In sm tarn nth of Edwards Hut	k33	23997	58064 DOC BD
Edwards River	Waimakariri River	1 birds	Blue duck	On East Edwards Rivernr jn of Edwards R	k33	23990	58035 DOC BD
Mingha R	Waimakariri River	1 birds	Blue duck	50-100m blw Kennedy Stm jn	k33	23981	58090 DOC BD
Agility Ck	Waimakariri River	1 birds	Blue duck		k33	23978	58073 DOC BD
Bealey R	Waimakariri River	1 birds	Blue duck		k33	23932	58054 DOC BD
Devil'S Punchbowl Ck	Waimakariri River	1 birds	Blue duck		k33	23927	58073 DOC BD
Bealey R	Waimakariri River	1 birds	Blue duck	Via M Harding	k33	23921	58088 DOC BD
Rough Ck	Waimakariri River	1 birds	Blue duck		k33	23920	58050 DOC BD
Crow R	Waimakariri River	1 birds	Blue duck	0.5km blw Crow Hut. 1830hrs	k33	23888	58054 DOC BD
Little Crow Stm	Waimakariri River	1 birds	Blue duck		k33	23884	58016 DOC BD
Waimakariri R	Waimakariri River	1 birds	Blue duck	Via M Harding	k33	23859	58081 DOC BD
Waimakariri R	Waimakariri River	1 birds	Blue duck		k33	23852	58079 DOC BD
Waimakariri R	Waimakariri River	1 birds	Blue duck		k33	23846	58076 DOC BD
Waimakariri R	Waimakariri River	1 birds	Blue duck		k33	23842	58064 DOC BD
White R	Waimakariri River	1 birds	Blue duck		k33	23821	58039 DOC BD
Waimakariri River tributary	Waimakariri River	1 Fish	Alpine galaxias		k34	23953	57982 NIWA FFDB
Waimakariri River	Waimakariri River	1 Fish	Alpine galaxias		k34	23953	57976 NIWA FFDB
Poplars Stream	Waimakariri River	1 Fish	Alpine galaxias		k34	24029	57968 NIWA FFDB
		Birds, wildlife	Southern crested grebe, teal, scaup, bittern,				
Lake Grasmere	Waimakariri River	1 refuge	white heron, little shag		k34	24102	57933 SSWI, WERI, DWNZ
		QEII Covenant					
Cave Stream	Waimakariri River				k34	24077	57781 CRC Res
Enys Scientific Reserve	Waimakariri River	1			k34	24073	57767 CRC Res
Porter River	Waimakariri River	1 Fish	Alpine galaxias		k34	24067	57728 NIWA FFDB
Anti Crow R	Waimakariri River	1 birds	Blue duck		k34	23848	57880 DOC BD
Porter River	Waimakariri River	3 Flora	<i>Triglochin palustre</i>	Collected 1921	k35		CHR
Nigger Stream, Esk Valley	Waimakariri River	1 Flora	<i>Cardamine 'tam'</i>	Gravelly margin of kettle lake (collected 1988)	I33	24332	58053 CHR
Thompson Stm	Waimakariri River	1 birds	Blue duck		I33	24171	58262 DOC BD
Cherrywood Ck	Waimakariri River	1 birds	Blue duck	Trib of Thomson Stm - Poulter R	I33	24204	58242 DOC BD
Minchin Stm	Waimakariri River	1 birds	Blue duck	Upstm of Minchin Biv. Trib of Poulter R	I33	24126	58230 DOC BD
Thompson Stm	Waimakariri River	1 birds	Blue duck		I33	24184	58210 DOC BD
L Minchin	Waimakariri River	1 birds	Blue duck	Via M Harding	I33	24133	58190 DOC BD
Thompson Stm	Waimakariri River	1 birds	Blue duck	Trib of Poulter R	I33	24100	58100 DOC BD
L Grace	Waimakariri River	1 birds	Blue duck	Doubtful sighting - needs verification	I33	24264	58086 DOC BD
Lake Marymere	Waimakariri River	3 Flora	<i>Isolepis basilaris</i>	Collected 1965	I34	2416-	5787- CHR
Poulter River gorge	Waimakariri River	1 Flora	<i>Helichrysum dimorphum</i>		I34	24209	57956 PNAP, SSWI
Poulter River	Waimakariri River	1 Flora	<i>Helichrysum dimorphum</i>		I34	24210	57952 CRC EP
Poulter River	Waimakariri River	1 Flora	<i>Helichrysum dimorphum</i>		I34	24212	57947 CRC EP
				Southern crested grebes (breeding), scaup, and 5 native			
Lake Lettia	Waimakariri River	1 Birds, Fish	Southern crested grebe, Scaup,	fishes have been recorded here.	I34	24245	57943 PNAP, DWNZ
Near Poulter River	Waimakariri River	1 Flora	<i>Helichrysum dimorphum</i>		I34	24237	57903 CRC EP

Lake Hawdon	Waimakariri River	1	Birds, Flora	Southern crested grebe, NZ scaup	Swamp margin one of largest, diverse in eco region.	I34	24165	57885	PNAP, DWNZ
Lake Marymere	Waimakariri River	1	Birds, Flora	Southern crested grebe, NZ scaup		I34	24168	57873	PNAP, DWNZ
Puffers Creek	Waimakariri River	1	Flora	<i>Helichrysum dimorphum</i>		I34	24192	57805	CRC EP
Slovens Creek	Waimakariri River	1	Flora	<i>Helichrysum dimorphum</i>		I34	24190	57798	CRC EP
Slovens Creek	Waimakariri River	1	Flora	<i>Helichrysum dimorphum</i>		I34	24193	57796	CRC EP
Kettlehole Bog, Cass	Waimakariri River	2	Flora	<i>Gratiola nana</i>	On turf margin and aquatic in seasonally inundated kettlehole (collected 1980, 1986)	I35	24111	57941	CHR, RARE
Eyre River tributary	Waimakariri River	1	Fish	Canterbury mudfish		I35	24438	57684	NIWA FFDB, WERI
Washpen Stream tributary	Waimakariri River	1	Fish	Canterbury mudfish		I35	24350	57683	NIWA FFDB
Washpen Creek tributary	Waimakariri River	1	Fish	Canterbury mudfish		I35	24350	57683	NIWA FFDB
Coopers Creek tributary	Waimakariri River	1	Fish	Canterbury mudfish		I35	24402	57673	NIWA FFDB, WERI
Braided riverbed including headwaters	Waimakariri River	1	Birds	Wrybill, banded dotterel, black-fronted dotterel, , Sl. pied oystercatchers	One of the most valuable areas for birdlife in the Cass Ecological District. Important area for wrybill plovers, particularly the Esk and Poulter deltas. North of Christchurch, in sand, hollows between dunes (collected 1955)	I36	24152	57926	PNAP, SSWI, WERI, DWNZ
Spencer Park	Waimakariri River	3	Flora	<i>Isolepis basilaris</i>	In front of Waimairi County Council office, on lawn frequently under water (collected 1980)	m35	2485-	5752-	CHR
Spencer Park	Waimakariri River	3	Flora	<i>Mazus novaezeelandiae</i>		m35	24857	57528	CHR
Cam River tributary	Waimakariri River	1	Fish	Canterbury mudfish		m35	24788	57672	NIWA FFDB, WERI
Woodend Lagoon	Waimakariri River	1	Fish, Bird	Canterbury mudfish, white heron, , banded dotterel		m35	24859	57645	NIWA FFDB, WERI
Woodend	Waimakariri River	3	Flora	<i>Urtica linearifolia</i>	Swamp at edge of lagoon (collected 1968)	m35	24850	57637	CHR
Pines Beach Wetland	Waimakariri River	2	Birds, Flora	Marsh crake	Rush and sedge swamp. Crake habitat only during 'wetter' time of the year.	m35	24859	57597	WERI
Kaipoi and Cam Rivers	Waimakariri River	2	Fish, Birds	Inanga spawning ground	Lower reaches of Kaipoi River contain 2 known inanga spawning areas.	m35	24798	57590	WERI
Waimakariri River estuary	Waimakariri River	2	Fish, ASCV	Shortfinned eel, Stokells smelt		m35	24827	57554	NIWA FFDB, CRC RCEP
Eyre River	Waimakariri River	3	Flora	<i>Mazus novaezeelandiae</i>		m35	2470	57550	CRC EP
Waimakariri River estuary	Waimakariri River	3	Flora	<i>Mazus novaezeelandiae</i>		m35	24865	57535	CRC TP
Chaney's Forest	Waimakariri River	3	Flora	<i>Mazus novaezeelandiae (pumilio)</i>	Damp ground (collected 1980)	m35	24816	57528	CHR
Peacock Springs	Waimakariri River	1	Fish	Canterbury mudfish		m35	24707	57491	NIWA FFDB
Amberley Beach	Amberley Beach	3	Flora	<i>Isolepis basilaris</i>	Collected 1950	n34	2492-	5781-	CHR
South Brighton	Avon- Heathcote Estuary	3	Flora	<i>Isolepis basilaris</i>	Collected in 1963	m35	2489-	5742-	CHR
Travis Swamp	Avon River	2	Fish, birds	Baumea rubiginosa, shortfinned eel, pukeko, and other wading birds and waterfowl.	Has reasonable numbers of shortfinned eels, and wetland birds. It is likely to increase in ecological importance with planned ecological development.	m35	24847	57470	pers. obs. ,M. Main
Avondale Bridge	Avon River	2	Fish	Inanga spawning	Spawning along true right bank within 100m of the bridge	m35	24848	57452	NIWA FFDB
Cockayne Reserve pond	Avon River	2	Fish	Shortfinned eel		m35	24864	57448	NIWA FFDB
Avon, Heathcote River estuary	Avon River	1	ASCV	Shortfinned and longfinned eels, Little shag, spotted shag, Australasian bittern, NZ scaup, banded dotterel.	Largest tidal wetland in the Canterbury Region. Margin of swampy area, between sand bars, near estuary (collected 1966)	m35	24880	57404	NIWA FFDB, DWNZ, CRC RCEP
South Brighton	Avon River	3	Flora	<i>Isolepis basilaris</i>		m36	2489-	5738-	CHR
Opawa Bridge area	Heathcote River	2	Fish	Inanga spawning	Inanga spawning site	m36	24831	57392	NIWA Sp
Sumner Heads	Port Hills	3	Birds	Spotted shag, white-fronted tern, red billed gull present	Breeding area for spotted shag. White-fronted tern, red billed gull present.	n36	24920	57375	RPNANZ
Scarborough Cliffs	Port Hills	Not rated	ASCV			n36	24920	57370	CRC RCEP
Godley Head	Port Hills	Not rated	ASCV			n36	24945	57358	CRC RCEP
Lyttelton Harbour tidal flats	Lyttelton Harbour	Not rated	ASCV			m36	24840	57300	CRC RCEP

Orton Bradley Park Stream	Lyttelton Harbour	2 Fish,Flora	Banded kokopu	The entire catchment of this stream has RAP, SSNV, and SSWI protection. A valuable freshwater lowland marsh. <i>B. rubiginosa</i> is rare in Canterbury, there is also <i>Carex sinclairii</i> , <i>Ranunculus glabrifolius</i> .	m36	24870	57261 NIWA FFDB, SSNV
Motukarara Wetlands	Lyttelton Harbour	2 Flora	<i>Baumea rubiginosa</i>		m36	24807	57228 PNAP
Ripapa Island	Lyttelton Harbour	Not rated	ASCV		n36	24903	57318 CRC RCEP
Raupo Bay	Banks Peninsula	2 Birds	Little blue penguin	Banks Peninsula stronghold for Blue Penguin (threatened Canterbury stronghold). Heportedly spawning area for whitebait, best saltmarsh in the ecological district, and the least modified substantial wetland on Banks Peninsula.	n36	25128	57275 PNAP
Okains Estuary	Banks Peninsula	2 Fish, Flora, ASCV	Inanga spawning, wetland plants	Basalt island with old pa site with cultural value. Blue penguin breeding colonies present.	n36	25144	57236 PNAP, CRC RCEP
Pa Island, ASCV to Ducksfoot Bay	Banks Peninsula	2 Birds, ASCV	Blue penguin, sooty shearwater, fairy prion Shortfinned eel, banded kokopu, redfinned bully		n36	25184	57235 SSNV, CRC RCEP
Pigeon Bay Stream tributary	Banks Peninsula	2 Fish Flora, QEII Covenant		One of only several known habitats for the redfinned bully. Thin riparian strip with salt ribbonwood, <i>Juncus maritimus</i> , <i>Cotula coronopifolia</i> , <i>Apium prostratum</i> , and other salt-tolerant herbs and grasses.	n36	25018	57208 NIWA FFDB
Lower Le Bons Stream	Banks Peninsula	recreational reserve	saltmarsh shrubland Blue penguin, breeding spotted shags, fairy prion and sooty shearwater, yelloweyed penguin and fur seals	Approx. 6km of cliffed and bayed coastline with important intertidal algae communities, and bird life	n36	25185	57167 SSNV, CRC database
Crown Island Coast	Banks Peninsula	1 Birds, Flora, ASCV			n36	25189	57125 PNAP,CRC RCEP
Fishermans Bay	Banks Peninsula	2 Birds, mammals	Fur seal, spotted shag, white-fronted tern,		n37	25170	57082 PNAP
Stony Bay	Banks Peninsula	1 Birds, ASCV	Yellow-eyed penguin, blue penguin, seabirds	Only breeding site on Banks Peninsula for yellow-eyed penguin.	n37	25137	57055 PNAP, CRC RCEP
Sleepy Bay	Banks Peninsula	2 Birds,mammals	Fur seal,spotted shag, grey duck	Area also has historical significance	n37	25141	57071 PNAP
Nikau Palm Gully to Akaroa	Banks Peninsula	Not rated	ASCV		n37	25070	57025 CRC RCEP
Redcliffe Nook to Damons Bay	Banks Peninsula	Not rated	ASCV		n37	25110	57020 CRC RCEP
Scenery Nook	Banks Peninsula	Not rated	ASCV		n37	25020	57010 CRC RCEP
Tidal mudflats	Akaroa Harbour	2 Flora,Birds, ASCV	Pied oystercatcher, banded dotteral, herons, stilts, shags	Flats are an important nursery ground for marine fish, and habitat for wetland bird species. Wetland community very restricted on Banks Peninsual, and thus of great importance	n36	25046	57173 PNAP, CRC RCEP Martin Rutledge, DOC, pers. comm.
Takamatua Stm	Akaroa Harbour	2 Fish	Redfinned bully	Tidal flats with good <i>Zostera</i> (sea grass) beds. Birds include SI pied oystercatcher, little and spotted shags, white-faced herons, and waterfowl species.	n36	25070	57122 SSNV
Childrens Bay	Akaroa Harbour	3 Flora,Birds	SI oystercatcher, little and spotted shags		n36		M. Main, pers. obs.
Aylmers Valley Stm	Akaroa Harbour	2 Fish	Banded kokopu		n37		M. Main, pers. obs.
Balguerri Stm	Akaroa Harbour	2 Fish	Banded kokopu	Redfinned bully only currently known from 4 locations in Canterbury, all on Banks Peninsula. Nine indigenous freshwater fishes recorded from this stream.	n36	25015	57105 NIWA FFDB
Wainui Stream	Akaroa Harbour	2 Fish	Redfinned bully, banded kokopu		n37	25015	57090 NIWA FFDB,SSNV
Jubilee Road Stream	Akaroa Harbour	2 Fish, Flora QEII Covenant	Banded kokopu		n37		
Dan Rogers Creek	Akaroa Harbour	-	Nature Reserve		n37	25071	57041 CRC Res
Onawe Peninsula	Akaroa Harbour	Not rated	ASCV		n36	25040	57147 CRC RCEP
Lake Forsyth	Lake Forsyth	3 Flora	<i>Isolepis basilaris</i>	Near southern end, damp lake margin on flat ground (collected 1945, 1985) important MAORI eel fishery, RAP includes alluvial flats at upper end. Notable birds include overwintering habitat for southern Southern crested grebe, white heron, australasian bittern, royal spoonbill.	m36	2488-	5710- CHR
Lake Forsyth and alluvial flats	Lake Forsyth	1 Fish, Flora, Birds	Shortfinned eel, saltmarsh plants, Southern crested grebe, waterfowl		m36	24895	NIWA FFDB,PNAP, SSWI, 57117 WERI, DWNZ
Lake Forsyth	Lake Forsyth	1 Flora	<i>Tolypella nidifica</i>	Only known locality of this charaphyte in New Zealand	m36		P. Champion (pers. comm)

L6 Wetland	Halswell River	2 Flora	<i>Baumea rubiginosa, Potentilla anserinoides, Cyperus ustulatus</i>	A species-rich freshwater wetland in small embayment on edge of hills. Other interesting species include <i>Epilobium pallidiflorum, Centella uniflora and Carex</i>	m36	24754	57216 PNAP
Lincoln	LII River	3 Flora	<i>Urtica linearifolia</i>	Margins of swamp and Lincoln Stream (collected 1959, 1961, 1970)	m36	24683	57305 CHR
Ford Stream Lakes	Selwyn River	2 Birds	Australasian bittern	Small lake with fringe of wetland species including <i>Carex</i> and <i>Juncus</i> spp. Provides habitat for waterfowl. Australasian bittern reported.	k35	24023	57540 SSWI
Little Snowden Swamp	Selwyn River	2 Birds,Flora	Australasian bittern, possibly marsh crake	Hush and sedge wetland of approx. 15 ha. Only habitat of its type left in area. Good nesting and escape cover for waterfowl.	k35	24031	57521 SSWI, WERI
Blacks Stream Headwaters	Selwyn River	1 Fish	Canterbury mudfish		l35	24309	57518 NIWA FFDB
Steventon Creek swamp	Selwyn River	1 Fish	Canterbury mudfish		l35	24178	57499 NIWA FFDB
Waireka (Waianiwaniwa) River cut	Selwyn River	1 Fish	Canterbury mudfish		l35	24284	57479 NIWA FFDB
Waireka (Waianiwaniwa) River cut	Selwyn River	1 Fish	Canterbury mudfish		l35	24275	57476 NIWA FFDB
Hororata River oxbow	Selwyn River	1 Fish	Canterbury mudfish		l36	24321	57353 NIWA FFDB
Selwyn River tributary	Selwyn River	1 Fish	Canterbury mudfish		l36	24389	57322 NIWA FFDB
Selwyn River	Selwyn River	1 Fish	Canterbury mudfish		m36	24512	57272 NIWA FFDB
Selwyn River mouth	Selwyn River	1 reserve	Wildlife management		m36	24650	57198 CRC Res
Doyleston Drain between Leeston and Southbridge	Harts Creek	2 Fish	Banded kokopu		m36	24561	57178 NIWA FFDB
	Harts Creek	3 Flora	<i>Isolepis basilaris</i>	Bottom of gravel pit	m36	24509	57132 CHR
			Wildlife management				
Harts Creek Lake Ellesmere, near Halswell River	Harts Creek	1 reserve			m36	24583	57129 CRC Res
	Lake Ellesmere	3 Flora	<i>Urtica linearifolia</i>	Among Typha at canal edge (collected 1971)	m36	24756	57161 CHR
			Bird,QEII Covenant, Wildlife management	133 native bird species identified. Include grey teal, NZ shoveler, banded dotteral, golden plover, black stilt, marsh crane, white heron, bittern. The largest commercial eel (indigenous) fishery in New Zealand.			NIWA FFDB, SSWI, WERI, Davis
Lake Ellesmere and its adjacent mud and sand flats.	Lake Ellesmere	1 reserve	Shortfinned eel, inanga, waterfowl, wetland plants		m36	24599	57121 1987, DWNZ, GG
Lake side	Lake Ellesmere	1			m36	24587	57104 CRC Res
Kaitorete Spit	Lake Ellesmere	1 Scientific Reserve			m37	24848	57096 CRC Res
Kaitorete Spit	Lake Ellesmere	2 Fish spawning	Inanga spawning, rearing	Prone to draglining by Selwyn District Council	m37	24720	57093 CRC Res, CRC RCEP
Waikawai Ck	Lake Ellesmere	2			m37	24586	57054 NIWA Sp
Coopers Lagoon and coastline	Lake Ellesmere	1 reserve, ASCV	<i>Urtica linearifolia</i> , Shortfinned eel, waterfowl, uncommon migrant waders	A brackish coastal lagoon impounded behind a shingle beach north of Rakaia River mouth. A SSWI of high regional importance. Includes good stands of wetland plant species, in a relatively small area.	m37	24540	57042 RCEP, PS, SSWI, CHR
Mathias R (N Br)	Rakaia River	1 birds	Blue duck	1km upstm of Canyon Ck jn under overhanging rock	j34	23601	57881 DOC BD
Canyon Ck	Rakaia River	1 birds	Blue duck	Trib of Nth Mathias R	j34	23591	57874 DOC BD

Mathias R (N Br)	Rakaia River	1 birds	Blue duck	At Canyon Ck jn	j34	23596	57872 DOC BD
Mathias R (S Br)	Rakaia River	1 birds	Blue duck	Via G Crump. 300m upstm of W Mathias Biv.	j34	23547	57806 DOC BD
Mathias R	Rakaia River	1 birds	Blue duck	. Via G Crump	j34	23539	57800 DOC BD
Upper Mathias River catchment	Rakaia River	2 Ecological Area	Banded dotterel, wrybill etc		j34	23554	57793 CRC Res
Cattle Stm	Rakaia River	1 birds	Blue duck	Seen 1030hrs	j34	23508	57742 DOC BD
Louper Stm	Rakaia River	1 birds	Blue duck	On tarn at Whitcombe Pass - ref correct?	j34	23455	57735 DOC BD
Cattle Stm	Rakaia River	1 birds	Blue duck	2 males 100m apart	j34	23509	57724 DOC BD
Louper Stm	Rakaia River	1 birds	Blue duck	Via G Crump	j34	23449	57722 DOC BD
Cattle Stm	Rakaia River	1 birds	Blue duck		j34	23509	57721 DOC BD
Cattle Stm	Rakaia River	1 birds	Blue duck	Via G Crump	j34	23508	57714 DOC BD
Louper Stm	Rakaia River	1 birds	Blue duck		j34	23444	57703 DOC BD
Louper Stm	Rakaia River	1 birds	Blue duck		j35	23440	57692 DOC BD
Rakaia R	Rakaia River	1 birds	Blue duck	Near Reischek Hut.	j35	23449	57679 DOC BD
Rakaia R	Rakaia River	1 birds	Blue duck		j35	23410	57677 DOC BD
Lyell Stm	Rakaia River	1 birds	Blue duck	Blw Lyell GI	j35	23408	57667 DOC BD
Rakaia R	Rakaia River	1 birds	Blue duck		j35	23412	57667 DOC BD
Rakaia R	Rakaia River	1 birds	Blue duck		j35	23408	57666 DOC BD
Jagged Stm	Rakaia River	1 birds	Blue duck	O,s Banfield Hutby Karavan Adventure Treks	j35	23522	57658 DOC BD
Lyell Stm	Rakaia River	1 birds	Blue duck	Outlet of glacier L 1000hrs. Karavan Adventure Treks	j35	23387	57650 DOC BD
Cameron R	Rakaia River	1 birds	Blue duck		j35	23524	57550 DOC BD
Cameron R	Rakaia River	1 birds	Blue duck		j35	23532	57536 DOC BD
Cronin Stm	Rakaia River	1 birds	Blue duck	Above gorge in bouldery pools. Trib of Wilberforce R	k33	23768	58030 DOC BD
Titan Stream	Rakaia River	3 Flora	<i>Triglochin palustre</i>	Hydra Waters, in muddy bog margins (collected 1981)	k34	2373-	5771- RARE
Wilberforce R	Rakaia River	1 birds	Blue duck		k34	23730	58019 DOC BD
Avoca R	Rakaia River	1 birds	Blue duck		k34	23857	57934 DOC BD
Centre Creek	Rakaia River	1 Fish	Alpine galaxias		k34	23907	57829 NIWA FFDB
Avoca River	Rakaia River	1 Fish	Longjawed galaxias		k34	23911	57820 NIWA FFDB
Wilberforce River	Rakaia River	1 Fish	Longjawed galaxias, alpine galaxias		k34	23803	57810 NIWA FFDB
Gargarous Stm	Rakaia River	1 birds	Blue duck	Unknown number of birds	k34	23840	57790 DOC BD
Harper River	Rakaia River	1 Fish	Longjawed galaxias, alpine galaxias		k34	23870	57762 NIWA FFDB
Lake Catherine (Monck)	Rakaia River	1 Birds	Southern crested grebe, scaup etc		k34	23930	57755 PNAP
			Alpine galaxias, Southern crested grebe, scaup etc	The Hyton Lakes Complex form an important habitat for the Southern Southern crested grebe, and many other indigenous birds.	k34	23865	57752 DWNZ
Moss Burn Swamp	Rakaia River	1 Birds, Fish			k34	23883	57743 PNAP
Lake Henrietta	Rakaia River	1 Birds	Southern crested grebe, scaup etc		k34	23915	57736 PNAP
Lake Ida	Rakaia River	1 Birds	Southern crested grebe, scaup etc	The Hyton Lakes Complex form an important habitat for the Southern Southern crested grebe, and many other indigenous birds.	k34	23895	57734 PNAP
Lake Selfe	Rakaia River	1 Birds	Southern crested grebe, scaup etc		k34	23925	57731 PNAP
Ida burn swamp	Rakaia River	1 Birds	Southern crested grebe, scaup etc	The Hyton Lakes Complex form an important habitat for the Southern Southern crested grebe, and many other indigenous birds.	k34	23912	57715 PNAP
Lake Evelyn	Rakaia River	1 Birds	Southern crested grebe, scaup etc	The Hyton Lakes Complex (Lakes Henrietta, Selfe, Ida, Catherine, Georgina, and Moss Burn, Ida Burn and Mt Hennah wetlands) form an important habitat for the Southern Southern crested grebe, and many other indigenous birds. Springs feeds many streams and pools. There are a number of plants present which were rarely recorded elsewhere. The wetland has additional high value as spawning area for	k34	23920	57714 PNAP
Mt Hennah Swamp	Rakaia River	1 Birds	Southern crested grebe, scaup etc		k34	23722	57712 PNAP SSWI, WERI, DWNZ
Hydra Waters - Chimera Fan	Rakaia River	1 Birds Flora	Australasian bittern, marsh crake,		k34	23929	57711 DOC BD
Ryton R	Rakaia River	1 birds	Blue duck		k35	2393-	5764- CHR
South east of Lake Georgina	Rakaia River	3 Flora	<i>Iphigenia novae-zelandiae</i>	Small lake by roadside (collected 1970)	k35	23911	57820 NIWA FFDB
Avoca River	Rakaia River	1 Fish	Alpine galaxias		k35		

Rakaia River Bed, from gorge to its headwaters, including tributaries.	Rakaia River	1 Birds,Fish	Wrybill, banded dotterel	riverbed has significant value as a breeding ground and ecological corridor for many indigenous birds and fish. Including the threatened wrybill, and banded dotterel. Black fronted terns and blackbilled gulls also present. Medium sized lake which provides habitat for waterfowl.	k35	23800	57740 PNAP,SSWI, WERI, DWNZ
Lake Rubicon	Rakaia River	2 Birds Birds, Flora, QEII Covenant	Marsh crake	Marsh crake present around margins.	k35	24152	57672 SSWI
Lake Lyndon	Rakaia River	1 recreational reserve	zealandiae	Valuable representation of 'turfland' species	k35	24045	57665 PNAP, DWNZ, CRC Res
Lake Coleridge	Rakaia River	1 Birds, FLora Flora,Birds,Inverteb	Black Shag, Australasian bittern, white heron, <i>Iphigenia novae-zealandiae</i>	Native fish, birds, RAP #3. Grassland, very dense turf (collected 1963, 1971) at G,R 23841 57750	k35	23890	57658 PNAP, DWNZ, CHR
Lake Georgina	Rakaia River	1 rates	Baumea rubiginosa, Southern crested grebe,	Koura (Freshwater crayfish common) Southern crested grebe habitat RAP #20	k35	23940	57645 PNAP
Glenariffe Stream tributary	Rakaia River	1 Fish	Alpine galaxias		k35	23758	57641 NIWA FFDB
Rakaia River	Rakaia River	1 Fish	Longjawed galaxias, alpine galaxias		k35	23823	57619 NIWA FFDB
Lake Coleridge	Rakaia River	3 Flora	<i>Iphigenia novae-zealandiae</i>	Slopes of Lake Hill on southern end of Lake Coleridge (collected 1963, 3 collections)	K35	23952	57612 CHR
Mt Barker Tarns	Rakaia River	2 Flora	wetland plant species	A wide variety of habitat types, some notable plants	k35	23970	57595 PNAP
Rakaia River	Rakaia River	1 Fish	Longjawed galaxias, alpine galaxias		k35	23907	57583 NIWA FFDB
Coleridge Rd swamp	Rakaia River	2 Flora	Baumea rubiginosa present	.RAP #12 An artificially created rush and sedge swamp,pond complex providing possible crake habitat.	k35	23929	57577 PNAP
Black Hole Dam	Rakaia River	2 Birds, Flora	Marsh crake		k35	24008	57557 PNAP, SSWI, WERI
Boundary Stream	Rakaia River	1 Fish	Alpine galaxias		k35	24028	57419 NIWA FFDB
Rakaia River	Rakaia River	1 Fish	Alpine galaxias		I36	24116	57349 NIWA FFDB
Rakaia River	Rakaia River	1 Fish	Longjawed galaxias		I36	24150	57309 NIWA FFDB
Bankside Reserve	Rakaia River	3 Flora	<i>Iphigenia novae-zealandiae</i>	Danthonia and short-tussock grassland (collected 1968, 1969, 1971)	I36	24415	57195 CHR
Rakaia River Lagoon	Rakaia River	1 Fish	Shortfinned eel		I37	24489	57018 NIWA FFDB
Boat Creek	Rakaia River	2 Fish	Inanga spawning	spawning habitat	I37	24488	57018 NIWA Sp
Mathias Creek	Rakaia River	2 Fish	Inanga spawning	spawning habitat	I37	24470	57011 NIWA Sp
Rakaia River Lagoon	Rakaia River	2 Fish	Stokell's smelt wrybill, black fronted tern, banded dotterel and black billed gulls. White winged black tern and black-fronted dotterel have also been noted.	one largest drained river in New Zealand and of outstanding value for wildlife. 21 species of wetland bird have been recorded. The only inland breeding colony of white fronted tern was discovered 25km from the sea.	I37	24446	57008 NIWA FFDB
Lower Rakaia and mouth	Rakaia River	1 Birds,Fish, ASCV			I37	24466	57006 SSWI, WERI, CRC RCEP
Lake Heron	Ashburton River	Birds, flora, QEII Covenant Nature 1 Reserve	Southern crested grebe, NZ scaup, other waterfowl, including a single record of Blue Duck	Wildlife Heruge, like Lake Heron, and Maori Lakes, important for overwintering of Southern crested grebe and other birds.	j35	23620	57450 DWNZ CRC Res, PNAP, WERI, SSWI,
Lake Camp	Ashburton River	3 flora	<i>Isolepis basilaris</i>	Mud at lake edge (collected 1962) Lake Emily wetlands one of the best examples of a small lake wetland system in Ecological District. Southern crested grebe present on Lake Emily and Manuka Lake supports many waterfowl.	j36	2352(3)-	5730- CHR
Lake Emily, and Manuka Lake	Ashburton River	1 Birds, flora	Southern crested grebe, NZ scaup		j36	23675	57392 PNAP,SSWI Manuka Lake
West Branch Stour River	Ashburton River	1 Fish Birds, flora, wildlife refuge, QEII Covenant Nature	Alpine galaxias		j36	23688	57372 NIWA FFDB
Maori Lakes	Ashburton River	1 Reserve	Southern crested grebe, NZ scaup	Lakes and wetlands slowly infilling. Important small lake wetland system which includes large stands of raupo. Significant area for waders and waterfowl, including breeding areas for Southern crested grebe, NZ Scaup, and grey teal.	j36	23627	57358 PNAP, CRC Res
Lake Clearwater	Ashburton River	1 refuge	Birds, flora, wildlife Southern crested grebe, NZ scaup, other waterfowl,Triglochloa palustre	Rare plant in rush and sedgeland on lake edge (col. 1979).	j36	23504	57356 PNAP, RARE

Spider Lakes	Ashburton River	2	Birds, flora	NZ Scaup, perhaps Southern crested grebe, <i>Isolepis basilaris</i>	A unique set of moraine tarns. Larger tarns have unique turf communities around their margins. <i>Isolepis</i> among turf on shore of kettle lake, in dry, rather well drained soil (collected 1979).	j36	23560	57318	PNAP, SSWI, CHR
Lakes Emma and Roundabout Braided Ashburton River mainstem	Ashburton River	1	Birds, flora	NZ Scaup, NZ shoveler, grey teal, bittern, wrybill plover, banded dotterel and black fronted tern	One of the most extensive lake and basin wetland systems in ecological district.	j36	23564	57288	SSWI (Lake Roundabout)
Riverbank flax swamp	Ashburton River	3	Birds	Australasian bittern and pukeko	Australasian bittern also recorded. Flax rush and sedge wetland. Birds reported as breeding	k36	24017	57399	SSWI, WERI
Mount Somers	Ashburton River	2	Flora	<i>Plantago obconica</i>	Cultivated at Landcare Lincoln	k36			CHR
Ashburton River tributary	Ashburton River	1	Fish	Canterbury mudfish		k37	24084	56984	NIWA FFDB
Unnamed Stream, Eiffelton	Ashburton River	1	Fish	Canterbury mudfish		k37	24059	56863	NIWA FFDB
Stockwater Race, Ashburton R.	Ashburton River	1	Fish	Canterbury mudfish		k37	24058	56809	NIWA FFDB
Ashburton River	Ashburton River	2	flora	<i>Crassula ruamahanga</i>	Damp sandy places on river bank	i37	24138	56828	CHR
Ashburton River mouth	Ashburton River	Not rated	ASCV			i37	24140	56825	CRC RCEP
Dawsons Drain tributary	Dawsons Drain	1	Fish	Canterbury mudfish		k37	24068	56811	NIWA FFDB
Wakanui Beach	Wakanui Creek	3	Flora	<i>Isolepis basilaris</i>	On sand at margin of brackish swamp (collected 1919)	i37	2419-	5786-	CHR
North Branch Hinds River	Hinds River	1	Fish	Canterbury mudfish		k36	23759	57215	NIWA FFDB
Gawler Downs, North Hinds River tributary	Hinds River	1	Fish	Canterbury mudfish		k36	23791	57170	NIWA FFDB
Clearwell Springs, Hinds River	Hinds River	1	Fish	Canterbury mudfish		k37	23882	57022	NIWA FFDB
Valetta Irrigation Race	Hinds River	1	Fish	Canterbury mudfish		k37	23909	56992	NIWA FFDB
1.5 km SE of river mouth	Hinds River	3	flora	<i>Isolepis basilaris</i>	Damp hollow, on coast (collected 1965)	k38	2401-	5675-	CHR
Hinds River lagoon	Hinds River	2	Fish	Stokell's smelt		k38	24025	56764	NIWA FFDB
Frances R	Rangitata River	1	birds	Blue duck		i35	23283	57600	DOC BD
Frances R	Rangitata River	1	birds	Blue duck		i35	23276	57594	DOC BD
St Winifred Stm	Rangitata River	1	birds	Blue duck	Blw Terra Nova Pass	i35	23211	57516	DOC BD
Deep Creek (Erewhon)	Rangitata River	1	Fish	Longjawed galaxias, alpine galaxias		j36	23404	57382	NIWA FFDB
Black Birch Ck	Rangitata River	1	birds	Blue duck	Via G Crump	j36	23352	57329	DOC BD
Scour Swamp	Rangitata River	2	Flora, Birds	Pukeko and bittern	Good representative example of wetland habitat.	j36	23423	57255	SSWI
Lake Denny	Rangitata River	1	Birds	Southern crested grebe, scaup, NZ shoveler, grey teal	Australasian bittern are likely to be breeding in the area, and rails may be present.	j36	23587	57250	PNAP, SSWI
Mainstem	Rangitata River	1	Fish	Longjawed galaxias, alpine galaxias		j36	23456	57243	NIWA FFDB
Rangitata R	Rangitata River	1	birds	Blue duck	5 on 17-27,2,85	j36	23645	57162	DOC BD
Rangitata R	Rangitata River	1	birds	Blue duck	In gorge	j36	23660	57155	DOC BD
Upper Rangitata Riverbed and Gorge	Rangitata River	1	Fish,Bird,Flora	Blue duck,wrybill plover, pied oystercatcher,black fronted tern, banded dotterel, alpine glaxias, longjawed galaxias	An extensive area of braided river which provides a range of habitats for flora and fauna. Also transit for many indigenous fish.	j36	23669	57144	PNAP, SSWI, WERI, DWNZ
Parson Stm	Rangitata River	1	Birds	Blue duck		j37	23661	57051	DOC BD
Rangitata R	Rangitata River	1	Birds	Blue duck		j37	23697	57051	DOC BD
Lynn Creek Bush	Rangitata River	1	Birds	Blue Duck	Blue duck are present (and have bred) in the stream.	j37	23665	57048	SSWI, WERI
Lynn Stm	Rangitata River	1	Birds	Blue duck	1980-85	j37	23679	57047	DOC BD
Pickaxe Bush	Rangitata River	1	Birds	Blue duck	Stream and bush fringe need protection.	j37	23622	57018	DOC BD
Lynn Stm	Rangitata River	1	Birds	Blue duck	1980-85	j37	23600	56900	DOC BD
Te Moana Scenic Reserve	Rangitata River	1	Birds	Blue duck	Already reserved. Blue duck reported. Mainly low canopy with a scruffy appearance.	j37	23572	56840	DOC BD
Lower Rangitata river	Rangitata River	2	Birds	Wrybill, blackfronted tern, black billed gull, caspian tern	Provides important habitat for indigenous fish and birds. Blue duck present in the Gorge section.	k37	23738	56910	SSWI
Rangitata River mouth	Rangitata River	2	Fish, Birds	Stokell's smelt, pied oystercatcher, banded dotterel, pied stilt, wrybill, black fronted tern, caspian tern		k38	23905	56677	NIWA FFDB,SSWI,WERI

Lower Rangitata River	Rangitata River	2 Bird,Fish	Wrybill, black fronted tern,	One of the largest braided rivers in Canterbury. The river supports all the braided river bird species of Canterbury, and provides habitat and transit for many endemic fish	k38	23905	56675 SSWI, WERI
Scotsburn Bush	Orari River	1 Birds	Blue duck	Blue duck habitat improving in quality. Podocarps on alluvial soils require protect	j37	23666	56975 DOC BD
Bernard Stream	Orari River	1 Bird	Blue duck	Fast single-channel river. Blue duck present	j37	23538	57019 WERI
Pick Axe Bush	Orari River	1 Bird	Blue duck		j37	23623	57017 SSWI
Coopers Stream Bush	Orari River	1 Bird	Blue duck		j37	23632	57014 SSWI
Scotsburn Bush	Orari River	1 Bird	Blue duck	Blue duck reported on the river.	j37	23667	56975 SSWI, WERI
Andrews Stm	Orari River	1 birds	Blue duck	1980-85	j37	23540	56950 DOC BD
Andrews Stm	Orari River	1 birds	Blue duck	1980-85	j37	23620	56950 DOC BD
Andrews Stm	Orari River	1 birds	Blue duck		j37	23630	56950 DOC BD
Eyre Stm	Orari River	1 birds	Blue duck	Trib of Mowbray R	j37	23524	56936 DOC BD
Orari Gorge	Orari River	QEII Covenant					
Orari R	Orari River	1 birds	Blue duck		j37	23640	56900 CRC Res
Orari River Bed	Orari River	1 Bird	Banded dotterel, black fronted tern, black billed gull, blue duck	Small braided river and tributaries. Blue duck in upper reaches	k38	23730	56780 SSWI, WERI
Hendersons Lagoon	Orari River	2 Birds	Marsh crake, NZ shoveler, banded dotterel, black fronted dotterel, blackbilled gulls, little shag, pied stilt, white winged black tern	Coastal lagoon with shallow productive margins.	k38	24830	56626 SSWI, WERI
Ohapi Creek	Orari River	2 Fish, Bird	Inanga spawning, pukeko, bittern	Springfed stream. Habitat for waterfowl.	k38	23796	56619 WERI, NIWA FFDB
Orari River lagoon	Orari River	2 Fish	Stokell's smelt		k38	23824	56617 NIWA FFDB
River mouth and lagoons	Orari River	2 Birds, ASCV	Blackfronted dotterel, blackbilled gull, white-winged black tern, white fronted tern, pied stilt, SI pied oystercatcher.	River mouth lagoon with margins lined with rush and sedge swamp. Feeding and loafing area for birds.	k38	23829	56616 SSWI, CRC RCEP
Spider Lagoon	Orari River	2 Birds	Australian bittern, white heron, black crake, white winged black tern	Freshwater coastal lagoon once open to the sea. Part of a coastal complex catering for waterfowl.	k38	23816	56607 WERI,SSWI
Orari R	Orari River	1 birds	Blue duck		j37	23598	57013 DOC BD
Orari R	Orari River	1 birds	Blue duck		j37	23635	56983 DOC BD
Scotsburn Stm	Orari River	1 birds	Blue duck	No dates or numbers. 1980-85. Trib of Coopers Ck	j37	23650	56980 DOC BD
Upper Te Moana River	Opihi River	1 Bird	Blue Duck		j37	23511	57834 WERI
Pickaxe Stm	Opihi River	1 birds	Blue duck		j37	23619	57100 DOC BD
Orari R	Opihi River	1 birds	Blue duck		j37	23642	56967 DOC BD
Gooseberry Stm	Opihi River	1 birds	Blue duck	Trib of Opuha R	j37	23449	56929 DOC BD
Waihi R	Opihi River	1 birds	Blue duck	Trib of Hae Hae te Moana R	j37	23569	56924 DOC BD
Stoney Ck	Opihi River	1 birds	Blue duck		j37	23594	56906 DOC BD
Waihi R	Opihi River	1 birds	Blue duck	Via G Crump. Lone female	j37	23585	56898 DOC BD
Mackintosh Stm	Opihi River	1 birds	Blue duck	0815hrs	j37	23583	56897 DOC BD
Waihi Gorge	Opihi River	1 Scenic Reserve	Blue Duck	Blue duck from stream.	j37	23613	56879 SSWI, CRC Res
Frasers Stm	Opihi River	1 birds	Blue duck	1 flying	j37	23481	56873 DOC BD
Frasers Stm	Opihi River	1 birds	Blue duck	Faeces only	j37	23514	56851 DOC BD
Hae Hae Te Moana	Opihi River	1 Scenic Reserve	Blue duck		j37	23579	56841 CRC Res
Hae Hae Te Moana R	Opihi River	1 birds	Blue duck	In gorge 100m upstm of picnic area	j37	23577	56836 DOC BD
Frasers Stm	Opihi River	1 birds	Blue duck		j37	23513	56829 DOC BD
Hae Hae Te Moana R	Opihi River	1 birds	Blue duck	Blw w,fall on Frasers Stm	j37	23513	56829 DOC BD
Geraldine Reserve	Opihi River	2 Flora	<i>Gratiola nana</i>	Damp muddy hollow in bush remnant (collected 1955)	j38	2368-	5678- CHR
Kakahu R	Opihi River	1 birds	Blue duck		j38	23556	56790 DOC BD
Rangatira Creek	Opihi River	1 Fish	Canterbury mudfish		j38	23662	56668 NIWA FFDB

Upper Waitohi (Connels Creek)	Opihi River		QELII Covenant Recreational Reserve			j38	23593	56849 CRC Res
Hazelburn Ponds	Opihi River	3	Bird	Pied stilt, pukeko banded dotterel, black fronted dotterel, SI pied oystercatcher, blackbilled gull, black fronted tern, white-winged black tern, caspiian tern	Lowland lake. One of only several recorded breeding area for the black fronted dotterel, and only site where the white-winged black tern have attempted to breed.	j38	23497	56842 WERI
Mainstem	Opihi River	2	Bird			j38	23615	56804 SSWI, WERI
German Creek	Opihi River		QELII Covenant Wildlife management reserve			j38	23674	56585 CRC Res
Opawa R	Opihi River	1	birds	Blue duck	2 still in nest The largest and least modified of the South and mid Canterbury coastal wetlands. The creek is notable for the unusual inland extent of intact indigenous vegetation.	j38	23303	56539 DOC BD
Orakipaoa	Opihi River	2	Flora, Fish	Inanga spawning and rearing habitat banded dotterel, pied stilt, little snag, black billed gull, black fronted tern, white fronted tern, caspiian tern, white winged black tern, inanga spawning		k38	23784	56589 PS, SSWI, WERI
Mouth and wetland (lagoons)	Opihi River	2	Fish, Birds, ASCV		Reportedly inanga spawning site. Dominion Road, in mixed vegetation at base of eucalyptus tree (collected 1989)	k38	23770	56570 SSWI, WERI, CRC RCEP
Seadown, near Timaru	Unnamed catchment	3	flora	<i>Urtica linearifolia</i>		k38	237-	5655- CHR
Horseshoe Lagoon	Unnamed catchment	1	Fish, Birds	Giant kokopu, marsh crake NZ shoveler, grey teal, banded dotterel, SI Pied oystercatcher, little shag, pukeko, black fronted tern, blackbilled gull	Only known site of giant kokopu left in Canterbury	k38	23763	56552 NIWA FFDB, WERI
Beach Road Lagoon	Unnamed catchment	3	Bird		Flocking area for waterfowl.	k38	23753	56540 SSWI, WERI
Papaka Stream	Washdyke Creek	1	Fish	Canterbury mudfish Pied stilt, grey teal, banded dotterel, black fronted tern, black fronted dotterel, NZ shoveler, caspiian tern, Shortfinned eels and other indigenous fish		j38	23635	56543 NIWA FFDB
Washdyke Lagoon and coastline	Washdyke Creek	2	Birds,Flora, ASCV		Important lagoon area flanked by salt marsh vegetation.	j39	23705	56480 SSWI,WERI, CRC RCEP
Washdyke Flats	Washdyke Creek	2	Birds	Pukeko	Coastal stream 7km long which maintains health of lagoon	j39	23705	56477 WERI
Pattiti Point to Tuhawaiki Point	Saltwater Creek	Not rated	ASCV	<i>Salicornia</i> , pukeko, pied stilt, banded dotterel, NZ shoveler	One of the last remaining areas of the ecological district (Timaru)	j39	23720	56420 CRC RCEP
Normanby wetland	Unnamed catchment	2	Flora,Birds			j39	23706	56379 SSWI
Mount Horrible Ponds	Pig Hunting Creek	2	Bird	Black billed gull	Three separate ponds	j39	23558	56433 WERI
Taiko Stream	Pareora River	1	Fish	Canterbury mudfish		j38	23528	56513 NIWA FFDB
Taiko Stream tributary ponds	Pareora River	1	Fish	Canterbury mudfish		j38	23531	56513 NIWA FFDB
Mainstem	Pareora River	2	Invertebrate	Freshwater crayfish	Cited as common in August 1994.	j39	23521	56438 NIWA FFDB
Pareora R	Pareora River	1	birds	Blue duck Banded dotterel, black billed gull, black fronted tern	Via G Crump. Small rainfed braided river and coastal stream. Marsh crake in berm areas.	j39	23335	56438 DOC BD
Mainstem	Pareora River	2	Bird			j39	23581	56404 SSWI, WERI
Pareora River tributary	Pareora River	1	Fish	Canterbury mudfish		j39	23654	56334 NIWA FFDB
Near river	Pareora River	2	flora	<i>Crassula ruamahanga</i> Grey teal, Australian bittern, marsh crake. Vegetation includes <i>Scirpus</i> , <i>Eleocharis</i> , <i>Carex</i> , and <i>Juncus</i> ,	Old water race (collected 1945) Rive rmouth and lagoon area. Reportedly inanga spawning area.	j39	23681	56328 CHR
River mouth Soda Swamp, Lower Pareora Gorge	Pareora River	2	Bird,Flora			j39	23676	56325 SSWI, WERI
Unnamed stream St Andrews	Pareora River	3	flora	<i>Isolepis basilaris</i>	Swamp (collected 1965)	j39		CHR
Otaio River	Lyalldale Cks	1	Fish	Canterbury mudfish	Coastal stream containing reasonably large population Faeces only. Above Otaio Gorge.	j39	23655	56314 NIWA FFDB, WERI
Otaio River	Otaio R	1	birds	Blue duck		j39	23450	56294 DOC BD
Otaio River	Otaio R	1	birds	Blue duck	Via G Crump. Ca 3km upstm of Otaio Br	j39	23435	56275 DOC BD
Otaio River	Otaio R	1	birds	Blue duck		j39	23436	56258 DOC BD
Otaio River	Otaio R	1	birds	Blue duck	Via G Crump	j39	23427	56250 DOC BD

Horseshoe Bend Stream	Kohika Stream	1 Fish	Canterbury mudfish		j39	23602	56224 NIWA FFDB, WERI
Unnamed pond Makihiki	Makihiki River	1 Fish	Canterbury mudfish		j40	23584	56153 NIWA FFDB
Waituna Stream	Hook River	1 Fish	Canterbury mudfish		j40	23594	56101 NIWA FFDB
				Significance to Maori, Rangatahi Wnenua (Maori fishing ground). The only substantial coastal lake and mudflat between Lake Ellesmere and the Tairā Valley. A wetland of international importance under the Ramsar wetland			
Wainono Lagoon. ASCV south to Waihao River mouth	Hook River	1 Fish, Birds, ASCV	Shortfinned eel, white heron, royal spoonbill, wrybill, grey teal, pied stilt, black fronted tern		j40	22640	56100 SSWI, WERI, CRC RCEP, GG
Unnamed Pond, Waimate	Waimate Creek	1 Fish	Canterbury mudfish		j40	23558	56077 NIWA FFDB
West of Waimate	Waimate Creek	3 flora	<i>Urtica linearifolia</i>	Amongst scrub in swampy area (collected 1966)	j40	23535	56066 CHR
				This site has a QEII covenant for protection of the Canterbury mudfish population.			
Sir Charles Creek	Waimate Creek	1 Covenant	Canterbury mudfish, banded kokopu		j40	23626	56049 NIWA FFDB NIWA FFDB, SSWI, WERI, CRC
Waihao River and lagoon	Waihao River	2 Fish, Bird, ASCV	Shortfinned eel	Reportedly inanga spawning area, Wildlife management reserve consisting of sand, shingle beach ridge on impounded stream wetland. Lagoon is inanga spawning habitat.	j40	23649	56061 RCEP
Waihao Box	Waihao River	1 Bird, Fish	White heron, bittern, banded dotterel, inanga		j40	23652	56028 SSWI, WERI
Buchanans Creek	Waihao River	1 Fish	Canterbury mudfish	Slow flowing stream with a population of Canterbury mudfish	j40	23617	56017
Bradshaw's Bog	Waihao River	2 Bird	Grey duck, grey teal, spotted shag	Lowland lake and flax swamp.	j40	23615	56014 SSWI, WERI
				Lowland lake and flax swamp. Significant waterfowl habitat for NZ shoveler duck.			
Fletchers Oxbow	Waihao River	2 Bird	bittern		j40	23631	56009 SSWI, WERI
Waihao Downs	Waihao River	3 flora	<i>Urtica linearifolia</i>	In stumps of <i>Carex secta</i> along creek (collected 1964)	j40	23451	55989 CHR
Dog Kennel Stream	Morven Drain	1 Fish	Canterbury mudfish	Nationally significant habitat for Canterbury Mudfish	j40	23534	55932 NIWA FFDB, WERI, GG
Whitneys Creek	Morven Drain	1 Fish	Canterbury mudfish		j40	23561	55901 NIWA FFDB, WERI
				braided river system with associated wetlands. Outstanding wildlife values, and important fish habitat. Breeding black stilt, one of the largest black-fronted tern breeding populations known. large wrybill breeding population.			
Ahuriri River	Waitaki River	1 Fish, Birds	Wrybill, black fronted tern, Black stilt, Australian bittern.		g38	22398	56590 RAP, SSWI, WERI
Hooker River	Waitaki River	1 birds	Blue duck	Immature bird. also seen 10,1,87	h36	22763	57183 DOC BD
				One of the best <i>Carex secta</i> swamps in the ecological district.			
Mount Cook Wetland	Waitaki River	3 Flora			h37	22841	57019 PNAP
				Three distinct wetlands important for birds, Jollie River Delta, Birch Hill Stream, and Glentanner Station Swamp			
Tasman riverbed Tasman and Murchison Riverbeds, and associated wetlands	Waitaki River	1 Bird	Black stilt	Wide braided river system, with associated lagoons and swamps provide very valuable habitat for waders and waterfowl, including breeding areas.	h37	22820	56990 DWNZ
Mt Cook Station, Tasman Valley	Waitaki River	1 Birds, Flora	Wrybill, black stilt, black fronted tern, banded dotterel.		h37	22807	56987 SSWI
				Among pasture grasses on roadside (collected 1964)	h37	22835	56970 CHR, RARE
				Large deep glacial moraine dammed lake with numerous wildlife habitats. Drawdown during winter exposes lake margins and Tasman River Delta at north end to provide overwintering sites for black stilt and other waterfowl and			
Lake Pukaki	Waitaki River	1 Bird, fish	Black stilt		h37	22828	56832 SSWI, DWNZ
Hopkins R	Hopkins R	1 birds	Blue duck		h37	22545	56809 DOC BD
				Extensive braided river and delta system joined by swampland to Lake Ohau. An important black stilt wintering Black stilt breeding and area used for cross fostering of black stilt chicks.			
Hopkins, Dobson Confluence	Waitaki River	1 Birds	Black fronted tern, wrybill, black stilt		h38	22590	56720 SSWI, DWNZ
Twizel River, and Lake Poaka	Waitaki River	1 Bird	Black stilt		h38	22786	56626 SSWI
				Small steep-sided lake with spring-fed streamlets and wet soakages. Breeding area for black stilt.			
Lake Merino	Waitaki River	1 Bird	Black stilt		h38	22746	56618 SSWI
Ben Ohau wetlands	Waitaki River	1 Birds	Australasian bittern, black stilt, marsh crake, pukeko		h38	22740	56607 PNAP
Sth Temple Stm	Hopkins R	1 Birds	Blue duck		h38	22500	56600 DOC BD
				Southern crested grebe, wrybill, black stilt, NZ Scaup, black fronted tern			
Lake Ohau	Waitaki River	1 Flora, fish		The only large lake within the Ecological Region which has not had its level raised.	h38	22585	56580 PNAP, SSWI, DWNZ
Ohau Downs Ponds	Waitaki River	1 Birds	Black stilt		h38	22669	56556 SSWI, WERI, DWNZ
				Three small artificial ponds. Black stilt feeding area. Artificial lake and its springfed stream complex provide excellent waterfowl habitat.			
Lake Ruataniwha	Waitaki River	1 Birds	Australasian bittern, black stilt		h38	22760	56545 SSWI

Shelton Downs Ponds	Waitaki River	1 Birds	Black Stilt	Two ponds with little wetland vegetation but good invertebrate fauna. Black stilt have bred here in the past. wade, braided riverbeds providing important habitat for waterfowl, waders, passerines, and aquatic insect fauna. A series of artificial ponds on margin of the Pukaki River also provide habitat for waterfowl and waders. A large area consisting of many tarns and swampy areas. Important wetland areas include Red, Raupo, and Swan Lagoons, Shelton Downs wetlands, Wairepo Lake, Benmore Homestead, and six mile creek tarns	h38	22573	56512 SSWI
Tekapo, Pukaki Rivers	Waitaki River	1 Birds, Fish	Black stilts, banded dotterel, black fronted terns, black backed bulls and wrybills,	Braided river system providing habitat for waterfowl and wading birds. Shallow wetland, periodically wet. Proposed for wetland enhancement from irrigation race. Large tarn with open water used by a wide range of waterbirds. Up to 50% of the total black stilt habitat have been recorded here at one time. Marsh crake also reported. Ephemeral wetland habitat, but black stilt and large numbers of banded dotterel been recorded.	h38	22891	56507 PNAP, SSWI, WERI, DWNZ
Shelton Downs (Ohau Moraine Wetlands)	Waitaki River	1 Birds	Black stilt, wrybill, Australasian bittern	Banded dotterel and marsh crake breeding habitat. Large wetland with little open water. Pedestalled <i>Carex secta</i> community	h38	22630	56500 PNAP, SSWI, WERI, DWNZ
Lower Ohau River	Waitaki River	1 Birds	Banded dotterel, black fronted terns, wrybills, black stilt	Largest manmade lake in NZ. Inlet deltas provide important habitat for wading birds.	h39	22882	56475 PNAP, SSWI, DWNZ
Airport Swamp	Waitaki River	1 Birds	Black stilt	Black stilt breeding habitat, Other waders and waterfowl. Only unmodified braided river system crossing the Mackenzie Basin. Highest bird numbers per kilometre in the Waitaki River catchment.	h39	22853	56467 SSWI, DWNZ
Benmore Station tarns, Wetlands	Waitaki River	1 Birds	Black stilt, marsh crake, Australasian bittern		h39	22700	56453 PNAP, SSWI, DWNZ
Wairepo Lake, Big Tarn	Waitaki River	1 Birds	Black stilt, banded dotterel		h39	22653	56432 PNAP, SSWI, WERI
Willowburn Swamp	Waitaki River	2 Birds	Black stilt, banded dotterel, marsh crake		h39	22678	56354 SSWI, WERI
Ben Omar Swamp	Waitaki River	1 Birds	Black Stilt, Australasian Australasian bittern,		h39	22732	56351 PNAP, SSWI, WERI
Lake Benmore	Waitaki River	1 Birds, Fish	Southern crested grebe		h39	22885	56350 PNAP, SSWI, WERI
Riverside Swamp	Waitaki River	1 Birds	Black Stilt		h39	22646	56337 SSWI
Ahuriri River	Waitaki River	1 Birds	Black stilt, black-fronted tern, wrybill, banded dotterel		h39	22704	56331 DWNZ
Hen Burn Swamp	Waitaki River	1 Birds	Marsh crake, black stilt		h39	22604	56329 SSWI
Chainhill Swamp	Waitaki River	3 Birds	Terns	<i>Carex</i> swamp with stream. Excellent grey duck habitat.	h39	22725	56315 SSWI
Glenburn Swamp	Waitaki River	1 Birds	Black stilt, marsh crake, black-billed gulls, black fronted terns.	<i>Carex</i> wetland with little open water. Black stilt feeding area, meandering stream with swampy margins utilised by large numbers of waterfowl and waders. Probably the most important pukeko site in upper Waitaki. Black fronted tern breeding	h39	22746	56296 PNAP, SSWI, WERI
Omarama Stream	Waitaki River	2 Birds	Pukeko, and black fronted tern	Important black stilt and wrybill feeding area. Also large number of waterfowl.	h39	22646	56272 SSWI
Tara Hills Wetland	Waitaki River	1 Birds	Black stilt, wrybill, marsh crake		h39	22651	56257 SSWI
Clark Creek Swamp	Waitaki River	2 Birds	Pukeko	Two wetland areas. Clark Creek and Otamatapaio River	h39	22780	56225 SSWI
Otematata Ponds	Waitaki River	1 Birds	Black stilt	Manmade ponds developed for wildlife. Used by Black stilt in winter.	h40	22872	56198 SSWI
Godley R	Waitaki R	1 birds	Blue duck	On tarn nr Godley Hut	i35	23086	57444 DOC BD
Godley river, tributaries, and associated wetlands.	Waitaki River	1 Birds	Black stilt, wrybill, banded dotterel, black-fronted tern, marsh crake also present		i36	23123	57185 SSWI, WERI
Godley, Macaulay Riverbed	Waitaki River	1 Birds	Black stilt, banded dotterel, grey teal, shoveler duck	Godley Wetland (slow-moving stream on true right) and Lilybank Swamp (adjacent to Lilybank Road) are both SSWI with outstanding ratings.	i36	23120	57170 DWNZ
Western foot of Two Thumb Range	Waitaki River	3 flora	<i>Isolepis basilaris</i>	Margin of dried up tarn (collected 1985)	i37	2312-	5687- CHR
Round Hill, near lake Tekapo	Waitaki River	2 Flora	<i>Plantago obconica</i>	Seepage (gently sloping) in moraine (collected 1985)	i37	2319-	5604- CHR
Cass River	Waitaki River	1 Birds	Black stilt, wrybill, and caspian tern. Breeding populations of banded dotterel and black-fronted tern. Marsh crake also present.	uncommon <i>Muehlenbeckia ephedroides</i> found in area. Native fish and aquatic insects abundant.	i37	23023	57055 PNAP, SSWI, WERI

Raupo Lagoon	Waitaki River	2 Birds, Flora	White-winged black tern. Black stilt, marsh crane, grey teal, and NZ Scaup breeding habitat, and Australasian bittern present.	Haupo Lagoon contains an excellent example of raupo and associated vegetation. Good shelter and feeding site for waders and waterfowl. White-winged black tern seen here.	i37	23096	57030 PNAP
Micks Lagoon	Waitaki River	1 Birds			i37	23084	57015 PNAP, SSWI, WERI, DWNZ
Glenmore Station, north of Hartley Tarn, Lake Tekapo	Waitaki River	3 birds, flora	<i>Iphigenia novae-zelandiae</i>	On moist patches of otherwise bare soil which form eroded terracettes (collected 1980) Group of 4 tarns. Three linked by a stream and surrounded by willows and wetland vegetation. Botanically interesting aquatic turf communities	i37	23043	57003 RARE
Mt Richmond Tarns	Waitaki River	1 Flora, birds	Black stilt		i37	23139	57002 SSWI, DWNZ
Joseph Valley Wetland	Waitaki River	1 Birds	Black Stilt	Breeding site for black stilt to 1978, still feed there. Large glacial lake with winter drawdown providing shoreline bays and deltas for waterfowl breeding and feeding. Large numbers of aquatic insects, and some native fish.	i37	23025	57000 SSWI, NZ DWNZ
Lake Tekapo	Waitaki River	1 Birds, fish	Black stilt, banded dotterel, grey teal	Most outstanding area of kettle tarns in the South Island with many small and large tarns. The threatened plants	i37	22120	57000 PNAP, SSWI, WERI, DWNZ
Glenmore Tarns (incl. Boundary, Sunday, Southern crested grebe, Stoney Tui, Cluster)	Waitaki River	1 Birds, Fish, Flora	Southern crested grebe, Australasian bittern, wrybill, banded dotterel, black faced tern, black stilt, <i>Crassula peduncularis</i> , <i>Iphigenia novae-zelandiae</i> , and <i>Isolepis basilaris</i>	<i>Crassula peduncularis</i> , <i>Iphigenia novae-zelandiae</i> , and <i>Isolepis basilaris</i> found on and Native fish and waders are plentiful, banded dotterel breeding and pied stilt feeding.	i37	23030	56987 PNAP, DWNZ
Irishman Creek and tarnlands	Waitaki River	2 Fish, Birds	Banded dotterel, pied stilt	Large pond with swampy and stony edges set in fescue tussock grassland.	i37	22930	56985 PNAP
Lake Murray	Waitaki River	1 Birds	Black stilt, Southern crested grebe		i37	23068	56972 PNAP, SSWI, DWNZ
Mailbox Exclosure	Waitaki River	1 Birds	Black stilt	Lagoon with exclosure to protect breeding black stilts.	i37	23081	56970 PNAP, DWNZ
Glenmore Station, Boundary Tarns, Lake Tekapo	Waitaki River	3 flora	<i>Iphigenia novae-zelandiae</i>	In turf at margin of kettlehole (collected 1977) Area includes a large tarnland complex (Heart lagoon?) Native fish and waders are plentiful, with the banded dotterel breeding and pied stilt feeding.	i37	23018	56961 RARE
Irishman Creek Swamp	Waitaki River	3 Birds	Banded dotterel, pied stilt.	Tarns generally have good raupo edge cover, surrounded by fescue tussock grassland. Native bullies and aquatic insects also abundant.	i37	22940	56950 SSWI
Mt Hay Station Tarns	Waitaki River	1 Birds, Flora	Black stilt, Australasian bittern	montane lakes, mainly open water surrounded by rush and sedge swamp. Breeding area for one of New Zealand's largest populations of southern Southern crested grebe and NZ Scaup.	i37	23210	56940 PNAP, SSWI, DWNZ
Lake Alexandrina	Waitaki River	1 Birds	Southern crested grebe, black stilt, NZ scaup, little shags, marsh crane, Australian coot.		i37	23055	56940 PNAP, SSWI, RAP, DWNZ
Lake McGregor	Waitaki River	1 Reserve	Southern crested grebe, NZ Scaup, little shags, marsh crane, black stilt, Australian coot.	Recreational Reserve Largely solitary tarn providing feeding area for large numbers of waterfowl and waders.	i37	23070	56937 PNAP, WERI, SSWI, DWNZ
Target Tarns	Waitaki River	1 Birds	Southern crested grebe, waterfowl and waders		i37	22997	56927 PNAP
Trig 'N' Tarns	Waitaki River	3 Birds	Banded dotterel	A short <i>Carex</i> , <i>Schoenus pauciflorus</i> swamp on the braided part of the Forks Stream floodplain. Feeding and breeding area for waders. Rated as "high" 3km swampy valley, providing a breeding, loafing, and feeding area for wading birds. Feeding area for black stilt.	i37	23070	56920 SSWI
Forks Wetland	Waitaki River	2 Birds	Banded dotterel, pied stilt, pied oystercatcher		i37	23014	56904 RAP, SSWI, WERI, DWNZ
Old Man Range Wetland	Waitaki River	1 Birds	Black stilt	Rated as "outstanding", Bridge Paddock (1935, also from Tekapo (locality unspecified 1954)	i37	22985	56885 RAP, WERI, DWNZ
Lake Tekapo	Waitaki River	3 flora	<i>Triglochin palustre</i>		i37		CHR
Lake Tekapo between Lake Tekapo and Lake Alexandrina	Waitaki River	1 Flora	<i>Amphibromus fluitans</i>	Collected 1935, not seen since, but possibly overlooked. Collected 1980 within turf community within and beside flush in fescue grassland	i37		CHR
Lake Aviemore	Waitaki River	2 Birds, Fish	<i>Crassula peduncularis</i> NZ Scaup, waders including banded dotterel, black fronted tern, and caspian tern.	Large manmade lake	i40	22960	56176 SSWI, WERI

Hakataramea River	Waitaki River	2 Birds, Fish	Black fronted tern and banded dotterel, banded kokopu	Shallow braided river with midchannel islands. Tern and dotterel breeding area, headwaters support native fish species.	i40	23215	56162 SSWI, WERI
Lake Waitaki	Waitaki River	2 Flora, Birds	Banded dotterel, grey duck, black shag	Lowland artificial lake, with associated rush and sedge swamp. Excellent waterfowl habitat.	i40	23032	56118 SSWI, WERI
Waihuna River	Waitaki River	1 Fish	Canterbury mudfish	A slowflowing stream reportedly with a population of Canterbury mudfish.	j40	23405	55925 NIWA FFDB
Middle Road Pond	Waitaki River	3 Bird	Little shag	Lowland lake, rush, and sedge swamp. Supports large numbers of waterfowl	j40	23492	55903 SSWI, WERI
Terrace Irrigation Canal	Waitaki River	3 Bird	Little shag	Lowland lake rush and sedge swamp. Good loafing and possibly breeding area.	j41	23489	55879 SSWI, WERI
Lower Waitaki River from Waitaki Dam to sea	Waitaki River	1 Birds, Fish	Black stilt, wrybill, marsn crane, caspian tern, black fronted tern, black billed gull, banded dotterel, a total of 48 species of wetland bird species recorded,	About 23 of the 48 wetland bird species use the river for breeding habitat.	j41	23490	55875 SSWI, DWNZ, GG
Te Hua Taki wetland	Waitaki River	2 Birds	Australasian bittern, grey teal, shoveler duck, pukeko, black fronted tern, black billed	<i>Carex, flax, raupo wetland . Best lake, wetland complex in district.</i>	j41	23486	55857 SSWI, WERI
Waitaki River Lagoon	Waitaki River	2 Fish, ASCV	Stokell's smelt	Listed as inanga spawning area	j41	23632	55832 NIWA FFDB, CRC RCEP



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