IN THE MATTER OF

the Resource Management

Act 1991 ("The Act")

AND

IN THE MATTER OF

Canterbury Regional
Council Regional Plan:

Land and Water

Plan Change 4 (Omnibus)

Form 5 – Submission on a Publicly Notified Proposed Regional Plan under Clause 6 of Schedule 1 of the Resource Management Act 1991.

## SUBMISSION BY THE DIRECTOR GENERAL OF CONSERVATION

TO:

Canterbury Regional Council

Box 345

CHRISTCHURCH 8140 Attn: Brett Aldridge

Submission on:

Canterbury Regional Council

Regional Plan: Land and Water Proposed Change 4 (Omnibus)

Name of submitter:

Director General of Conservation.

Address for service:

South Island RMA Planning

**Operations Group** 

Department of Conservation

Private Bag 4715 Christchurch, 8140

Phone: (03) 371 3751 or (027) 2906025

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Contact person:

Herb Familton, RMA Planner, hfamilton@doc.govt.nz

### Trade Competition:

Pursuant to Clause 6 of Schedule 1 of the Resource Management Act 1991, a person who could gain an advantage in trade competition through the submission may make a submission only if directly affected by an effect of the proposed policy statement or plan that:

- (a) adversely affects the environment:
- (b) does not relate to trade competition or the effects of trade competition.

I could not gain an advantage in trade competition through this submission.

The specific parts of the proposed Plan Change 4 to which this submission relates, along with the submission (with reasons) and the decisions sought, are set out in Attachment A.

### **GENERAL MATTERS**

The general reasons for the submission are that the decisions sought are necessary for the proposed Regional Plan: Land and Water Plan Change 4to achieve the purpose of the:

- Resource Management Act 1991 (RMA), and
- > The National Policy Statement of Freshwater Management (2014), and
- > The Canterbury Regional Policy Statement, and
- > Canterbury Regional Plan: Land and Water, and
- > The Conservation General Policy, and
- > The Canterbury Conservation Management Strategy, and
- > Are in accordance with sound resource management practice, and
- Protecting the Canterbury Inanga freshwater fishery, and
- > Protecting the habitat of Canterbury Mudfish (Neochannia Burrowsis), and
- > Protecting the life-supporting requirements of native fish, and
- > Protecting braided riverbed habitat and species, and
- Fostering recreation in Canterbury's back country

Further specific reasons and decisions sought are given in Attachment A to this submission. Where any decision sought in Attachment A seeks specific wording inserted in a specific place, the decision sought includes the following words:

'or words to like effect, and/ or in some other appropriate location in the Water Regional Plan.'

The submission also includes such consequential amendments as are necessary to give effect to this submission.

I wish to be heard in support of my submission.

If others make a similar submission, I will consider presenting a joint case with them at a hearing.

Leonie Fechney

Conservation Partnerships Manager (Canterbury)

Christchurch

Pursuant to a delegation from the Director-General of Conservation A copy of the delegation may be viewed at the Departmental offices located at Conservation House Whare Kaupapa Atawhai, 18 - 32 Manners Street, Wellington 6011

Date 12/10/2015

(1) The specific provisions of the Proposed Plan Cl	(1) The specific provisions of the Proposed Plan Change	(2) My submission is that:	s that:	(3) I seek the following decision(s) from Canterbury Regional Council:
that my submission relates to are:	omission re:			
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
Tables 1a a	nd 1b Freshwa	ter outcomes for Can	Tables 1a and 1b Freshwater outcomes for Canterbury's Rivers and Lakes	
4-3 and 4-4	Table 1a and 1 b	Support in Part	Many of the river and lakebeds in Canterbury are Crown Land adjacent to Public Conservation Land, so these Crown land areas need to be included as	Define in the Land and Water Plan maps which areas of Crown Land riverbed and lake bed are within the natural state waterbody area.
			well as the rubild Conservation lake areas on a map so that the objective of the tables can be given effect.	
4-4	Table 1b Freshwater outcomes for	Oppose	Maori Lakes, and Lake Emily and Georgina should be maintained to the same trophic level as other High	Delete "4" as the TLI indicator for Maori Lakes, Lake Emily and Georgina and replace with "2.5
	Canterbury		Trophic degradation of these lakes does not give effect to the NPS, RPS or Land and Water Plan Objectives and Policy and is inconsistent with the general	
Section 5 -	Section 5 – Region wide Rules	les	principles of the CWPs.	
ကို	Rule 5.7 and 5.8	Oppose in part	This provision does not enable wastewater (greywater) discharges from backcountry huts which have a less than minor effects. Greywater wastewater in small amounts has less cumulative effects than the discharge of N and P from farming activities that are the focus of ECan permitted rules to	Alter to:  5.7 The discharge of wastewater from an existing on-site wastewater treatment system onto or into land in circumstance where a contaminant may enter water is a permitted activity, provided the following conditions are met:
			חומחלה אמובו לחמחול.	

## ATTACHMENT A SUBMISSION ON THE PROPOSED PLAN

The following table sets out further details of the Director General's submission (with reasons) and the decisions sought with respect to the proposed Regional Plan: Land and Water Omnibus Plan Change 4.

	(3) I seek the following decision(s) from Canterbury Regional Council:			Retain	Retain	Retain		Retain
	s that:	Addition and Reason(s) where appropriate		These rules give effect to the RMA, NPS Freshwater) the RPS and the Canterbury CMS.	These rules give effect to the RMA, NPS Freshwater) the RPS and the Canterbury CMS.	These rules give effect to the RMA, NPS Freshwater) the RPS and the Canterbury CMS.		These rules give effect to the RMA, NPS Freshwater) the RPS and the Canterbury CMS.
	(2) My submission is that:	Oppose/support (in part or full)	How the Plan works and definitions	Support	Support	Support		Support
	(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	Sub- section/ Point	How the Plan w	Definition of High Naturalness water Body	Inanga Spawning Body	Definition of Vegetation Clearance	)bjectives	Objective 3.14
0	(1) The specific provisions of the Proposed Plan Char that my submission relates to are:	Page Number	Section 2 -	2-3	2-3	2-4	Section 3 Objectives	3-1

(3) I seek the following decision(s) from Canterbury Regional Council:		(i) The discharge consists of contaminants	associated with domestic or back country	(ii) The onsite system was installed and	 (iii) The discharge does not exceed $2 m^3$ per	(IV) The discharge site is onto or into a site	that is equal to or greater than 4 hectares	(v) Inflow or infiltration of stormwater other		system is minimised; and	(vi) For backcountry huts, the greywater	treatment and disposal system is	operated and maintained within the	system design specification for	maintenance, which shall be provided to		(vii) For domestic systems the treatment and	disposal system is compliant with section	6.3 of New Zealand Standard AS/NZ
	Addition and Reason(s) where appropriate	The Department manages as part of its Canterbury Hut network, approximately	60 dishwashing sinks and 22 hand basin	sinks the rule as dranted would required the Department to obtain up to	discharges for greywater wastewater.	as a permitted activity within limits. The Department and other Hist providers	through their hut maintenance		designed for all Canterbury Huts by 31	December 2023	Keasons 1. Condition 5 (c) contradicts the murnose	of the rule	2. Condition 5 (g) is void for want of	certainty. The groundwater depth will	change throughout the year and is	3. Use of the on-site domestic AS/N7	Standard 1547:2012 is not appropriate for	backcountry hut wastewater.	4. Backcountry hut greywater wastewater
(2) My submission is that:	Oppose/support (in part or full)																		
(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	Sub- section/ Point					_						-							
(1) The specific provisions of the Proposed Plan Cl that my submissi relates to are:	Page Number																		

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(1) The specific	cific	(2) My submission is that	s that:	(3) I seek the following decision(s) from
provisions of the Proposed Plan Char that my submission relates to are:	provisions of the Proposed Plan Change that my submission relates to are:			Canterbury kegional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
		TO THE REAL PROPERTY OF THE PR	should be provided for as a permitted activity rule as the effects are minor or less as the amounts of wastewater are	1547:2012- On site Domestic Wastewater treatment (viii) The discharge is not into or onto land:
			5. The Department and Other Hut providers could work at providing a design specification for greywater	a) Where there is an available sewage network; or
			wastewater for all it's facilities and Canterbury and provide a design specification for maintenance by 31	
			December 2023, and this can be the specification the systems are maintained.	waterboogy or the Coastal Marine Area; or d) Within 50 meters of a bore used for
				vii) The discharge does not result in wastewater being visible on the ground surface; and
				viii) The discharge does not contain any nazardous substance.
				5.8 The discharge of wastewater from new on-site wastewater treatment system onto or into land in circumstance where a contaminant may enter

(1) The specific provisions of the Proposed Plan Charthat my submission relates to are:	(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	(2) My submission is that	is that:			(3) I seek Canterbu	(3) I seek the following decision(s) from Canterbury Regional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and appropriate	Reason(s)	where		
						water is a	water is a permitted activity, provided the following conditions are met:
						(i)	The discharge consists of contaminants associated with domestic or back country
						$\widehat{\Xi}$	hut wastewater only; and The discharge is not located within an
							area where residential density exceeds
					-		1.5 dwellings per hectare and total
		_					population is greater than 1000 persons; and
						(iii)	The discharge does not exceed 2 m³ per
						(ta)	day; and The discharge site is contour set of site
						3	that is equal to or greater than 4 hectares
							in area; and
		-				3	In flow or infiltration of stormwater, other
							surface water and groundwater to the
						(14)	system is minimised; and
							treatment and disposal system is
							operated and maintained within the
							system design specification for

(1) The specific	cific	(2) My submission is that	s that:	(3) I seek the following decision(s) from
provisions of the Proposed Plan Char that my submission relates to are:	provisions of the Proposed Plan Change that my submission relates to are:			Canterbury Regional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
				(vii) For domestic systems, the treatment and
				1547:2012- On site Domestic Wastewater
				treatment
		_		
				network; or q) That is listed as an archaeological
	_			h) Within 20 meters of any surface
				waterbody or the Coastal Marine
				Area; or
				j) Within a Community Drinking-water
_				protection zone as set out in schedule
				1 of this plan; and
		-		vii) The discharge does not result in wastewater
				being visible on the ground surface; and
				viii) The discharge does not contain any hazardous
				substance.

		_											
(3) I seek the following decision(s) from Canterbury Regional Council:		Consequential new definitions of :	(i) On site backcountry hut wastewater system and	<ul><li>(ii) On site domestic wastewater treatment system "</li></ul>	May be required".	Retain.		Amend rules 5.77 and 5.78 as follows:		The discharge of drainage water from a drainage	system into a river is a permitted activity.	provided the following conditions are met:	1 The discharge of land drainage water is only from a
s that:	Addition and Reason(s) where appropriate					These rules give effect to the RMA, NPS Freshwater), and the RPS, and protect the habitat	of inanga/whitebait	1. Drainage systems can be a major source of contamination to freshweter. Tile	drains has been identified by Orago Regional Council June 116 that allower	permitted activity discharge must meet	the requirements of section 70 1 (c-g)	requirements of the RMA,  2. The location of the drainage systems	need to be mapped and the outlet position identified for ECan, so that the
(2) My submission is that:	Oppose/support (in part or full)					Support		Oppose in part					
(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	Sub- section/ Point					Stock exclusion	Rules 5.68A- 5.71	Rule 5.77	Water				
(1) The specific provisions of the Proposed Plan Charthat my submission relates to are:	Page Number					5-4		5-6					

(1) The specific provisions of the Proposed Plan Cl	(1) The specific provisions of the Proposed Plan Change	(2) My submission is that:	s that:	(3) I seek the following decision(s) from Canterbury Regional Council:
that my submission relates to are:	bmission ıre:			
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
			mixing zone can be identified, and the cumulative effects of such discharges	drainage system, the full spatial extent which existed at 3 July 2004; and
_			managed.	2. The concentration of:
	_			(a) total suspended solids in the discharge does not
			dilution effect of a river or stream,	exceed 50 g/m; and
				does not exceed 0.005 a/m2: and
				3. The discharge beyond the mixing zone as defined
				in Schedule 5, does not produce
				(a) conspicuous oil or grease or films, scums or
				foams, or floatable or suspended materials; or
				b) any conspicuous change in the colour or visual
				clarity; and
				(c)any emission of objectionable odour; or
				(d) the rendering of fresh water unsuitable for
				consumption by farm animals, or
				(e) any significant adverse effect on aquatic life; and
				4. The discharge does not:
				(a) Occur within a Community Drinking-water
				Protection zone as set out in schedule 1; or
				(b) Contain any hazardous substance, and
				5 The location of the drain outlet position is mapped
			The second secon	and provided to ECan by 31 December 2020,

provisions of the Proposed Plan Clubat my submissi relates to are:	provisions of the Proposed Plan Change that my submission relates to are:	(2) My submission is that	is that:	(3) I seek the following decision(s) from Canterbury Regional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
				5.78A.The discharge of drainage water from a drainage system into a river lake or wetland that does not meet the conditions of Rule 5.77 is a discretionary activity, provided the following condition is met
				5.78B The discharge of drainage water from a drainage system into a river lake or wetland that does not meet the conditions
5-12	Bores Rules 5.103- 5.104A	Support	These rules give effect to the RMA, NPS Freshwater), and the RPS, and enable emergency fire-fighting by allowing for temporary construction and decommissioning of emergency fire-fighting galleries.	Retain
5-17	Take and Use of Surface water Rule 5.123	Oppose in Part	A default minimum flow of 50% of the 7-day mean annual low flow (7DMALF) does:  Not provide for the life supporting capacity of freshwater ecosystems, and it is interested to the life supporting capacity of freshwater ecosystems.	Replace condition 2 "50% of the 7-day mean annual low flow (7DMALF)" with:

(1) The specific provisions of the Proposed Plan Charthat my submission relates to are:	nange on	(2) My submission is that	s that:	(3) I seek the following decision(s) from Canterbury Regional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
			RMA, and  Is inconsistent with Objective A1 of the	
			This default minimum flow provides too	
			freshwater species, while granting too	
			abstractors.	
	_		• Is inconsistent with Objective 7.2.1 and	
			Folicy 7.3.4 of the KP3, and  Is inconsistent with Principles 2. 4. 5	
			and 8 of the CWMS	
_			Does not avoid , remedy or mitigate	
			adverse effects of water takes on the freshwater environment.	
5-20	Structures	Support	These rules give effect to the RMA, NPS	Retain.
	rules 5.135		Freshwater) the KPS and the Canterbury CMS,	
5-24	Rule 5.146	Support in part	Reason	Add a new condition 5:
	Fine   Sediment		This activity has the potential to cause	5. "The activity occurs between October and
	removal		and fish spawning and therefore should	<u>March"</u>
			avoid adverse effects	
5-25	Rule 5.148 Gravel from	Support in Part	The bird breeding season for riverbed birds starts in August,	Alter condition 4 to read:

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(3) I seek the following decision(s) from Canterbury Regional Council:		a) "In the bed of any river or lake does not exceed 5 m3 in any 12 consecutive months, and occurs between 1 February and 31 July	b) Replace "August" with " <u>July"</u> c) Replace "August" with " <u>July"</u>	5 Add after excavated, "and the ground is levelled".	If the above relief is accepted, then condition 10 is	not required.				
s that:	Addition and Reason(s) where appropriate	so rules managing extraction to avoid bird displacement should start on the 31 July.	If the period 1 February to 31     July is applied to all rivers this     would protect birds from     disturbance at breeding time	and there would be no need for condition 10 to manage gravel excavation under condition 4	a).	h	within 100 meters of the vicinity of gravel extraction.	Confining this gravel take to a set time period will make ECan compliance far clearer and	simple. It is better that a time	may require expert advice.
(2) My submission is that:	Oppose/support (in part or full)									
(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	Sub- section/ Point	Lake and Riverbeds								
(1) The specific provisions of the Proposed Plan Char that my submission relates to are:	Page Number				_					

(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	cific of the lan Change omission re:	(2) My submission is that:	that:	(3) I seek the following decision(s) from Canterbury Regional Council:
Page Number	Sub- section/ Point	Oppose/support (in part or full)	Addition and Reason(s) where appropriate	
5-28	Vegetation and Lake	Support in Part	Reason The person or agency responsible for the	Add a new condition
	5.163 to 5.166		river or lakebed should be mentioned to be consistent with condition two provisions for flood control.	11 No vegetation shall be disturbed, removed, damaged or destroyed without the prior written
				permission of the person or agency responsible for the management of the river or lakebed.
Schedules				
16-4	Schedule 5	Support	Reason 1. Clarifies the mixing zone for river and	Retain
	Zones		1	
16-5	Schedule 8	Support	Reason	Retain.
	Kegional wide water		This provision establishes regional limits within the Plan as required under the NPS (Freshwater).	
	Quality limits		Part II of the Act, and the RPS.	
16-6	Schedule 9	Support	Reason	
	Assessment		Establishes regional limits within the Plan as	1. Retain.
	ot Stream Depletion		required under the NPS (Freshwater), Part II of	
	Effects		וונכ זוכל מחות חום זור סי	

Reason(s) where  Whitebait Habitats to be permitted activity rules 1 clusive.  ction 6 (ab) Conservation  Policy 10.3.2 (7)  Policy 10.3.2 (7)  The Boos- C15  The protecting sites as 5 Policy 10.3.2 (7).  Solicy 10.3.2 (7)  Readdition of Canterbury addittion of Canterbury	(1) The specific provisions of the Proposed Plan Charthat my submission relates to are:	(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	(2) My submission is that:	is that:	(3) I seek the following decision(s) from Canterbury Regional Council:
hedule 17  Support  I Identifies Inanga/ Whitehalt Habitats to be sustainably managed by being excluded from a range of permitted activity rules 1  March to 1 June inclusive.  Z Gives effect to section 6 (ab) Conservation  Act.  3 Gives effect to RPS Policy 10.3.2 (7)  P Changes to Maps Boo5-C15  In Gives  In Gives  In Gives  In Gives  In Gives  C Gaived effect to RPS Schedule 10.3.2 (7)  Reason  I Gives  I Gives  I Gives  C Gaiving affect to RPS Schedule 10.3.2 (7)  Reason  I Gives  I Gives  C Gaiving effect to RPS Schedule 10.3.2 (7)  Reason  I Gives  C Gaiving effect to RPS Schedule 10.3.2 (7)  Reason  I Gives  I Gives  C Gaiving effect to RPS Schedule 10.3.2 (7)  Requires the addition of Canterbury	Page Number	Sub- section/ Point	Oppose/support (in part or full)	and Reason(s)	
Poosed Support  Reason  1. Gives effect to section 6 (ab) Conservation  3. Gives effect to RPS Policy 10.3.2 (7)  3. Gives effect to RPS Policy 10.3.2 (7)  1. Gives effect to Protecting Inanga/Whitebait spawning sites as Outlined in RPS Policy 10.3.3 (7).  2. Giving effect to RPS Schedule 10.3.2 (7)  2. Giving effect to RPS Schedule 10.3.2 (7)  3. Giving effect to RPS Schedule 10.3.2 (7)  3. Giving effect to RPS Schedule 10.3.2 (7)  4. Giving effect to RPS Schedule 10.3.2 (7)  5. Giving effect to RPS Schedule 10.3.2 (7)  6. Giving effect to RPS Schedule 10.3.2 (7)	16-8	Schedule 17 Inanga Sites	Support	Reason  1 Identifies Inanga/ Whitebait Habitats to be sustainably managed by being excluded from a range of permitted activity rules 1 March to 1 June inclusive.	
pposed Support    Support   Passon   Changes to Maps Boo5- C15   1.					
posed Support  Reason  1. Gives effect to protecting lnanga/Whitebait spawning sites as outlined in RPS Policy 10.3.2 (7).  2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury					a threatened species deserving of inclusion on the schedule, and
posed Support Changes to Maps Boo5- C15  Reason  1. Gives effect to protecting Inanga/Whitebait spawning sites as outlined in RPS Policy 10.3.2 (7).  2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury					3. Add the other two threatened native fish species lowland longiaw galaxias (Galaxias cobitinis) and himose galaxies (Galaxias
posed Support  Reason  1. Gives effect to protecting lnanga/Whitebait spawning sites as outlined in RPS Policy 10.3.2 (7).  2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury					macronasus) in table 2 and three from schedule 1 into Schedule 17
Sed Support  Reason  1. Gives effect to protecting Inanga/Whitebait spawning sites as outlined in RPS Policy 10.3.2 (7).  2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury	Proposed M	laps			
1. Gives effect to protecting Inanga/Whitebait spawning sites as outlined in RPS Policy 10.3.2 (7).  2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury		Proposed Maps	Support		
		4		protecti sites	
company of the company				2. Giving effect to RPS Schedule 10.3.2 (7) requires the addition of Canterbury	(trecontained burrowstes) from enclosed schedule 1 table 1 and map to schedule 17 as a threatened species deserving of inclusion

(3) I seek the following decision(s) from Canterbury Regional Council:		on the schedule, and	3. Add the other two threatened native fish species lowland longjaw galaxias ( <i>Galaxias cobitinis</i> ) and bignose galaxias ( <i>Galaxias macronasus</i> ) in table 2 and three from schedule 1 into Schedule 17	£	a	
	where					
	Reason(s)					
s that:	Addition and appropriate					
(2) My submission is that:	Oppose/support (in part or full)					
cific of the lan Change mission e:	Sub- section/ Point					
(1) The specific provisions of the Proposed Plan Change that my submission relates to are:	Page Number					

# Schedule of Threatened Fish

Table 1. Schedule of known Canterbury mudfish (Neochanna burrowsius) locations in Canterbury.

Catchment	Location	Topo50 Downstream	Topo50 Upstream
Ashley River	Tutaepatu Lagoon	200 137 NCWO	
Ashley River	T. C.	DW24 /01 02/	BW24 762 035
Weiner Interest	I aranaki Creek	BW24 761 053	BW24 759 037
wannakann Kiver	Peacock Springs	BX23 624 870	BX23 607 875
waimakariri Kiver	Eyre River tributary	BW22 299 047	BW22 293 053
waimakarin Kiver	Mounseys Stream tributary	BW22 268 059	BW22 265 060
waimakariri Kiver	Mounseys Stream tributary	BW22 266 061	BW22 266 064
waimakariri Kiver	Mounseys Stream tributary	BW22 258 065	BW22 255 074
waimakarifi Kiver	Mounseys Stream tributary	BW22 258 062	BW22 257 061
waimakanin Kiver	Mounseys Stream tributary	BW22 257 062	BW22 256 062
waimakariri Kiver	Mounseys Stream tributary	BW22 256 062	BW22 255 062
waimakariri Kiver	Mounseys Stream tributary	BW22 255 063	BW22 239 064
waimakariri Kiver	Mounseys Stream tributary	BW22 255 063	BW22 239 065
Walmakarini Kiver	Coopers Creek tributary	BW22 300 056	BW22 295 059
Avon Kiver	Travis Wetland	BX24 748 851	BX24 747 851
Avon Kiver		BX24 693 800	BX24 693 801
Solver Birrer	Mahaanui District Office Office	BX24 641 791	BX24 641 791
Solwyn Naver	Selwyn Kiver tributary	BX23 453 641	BX23 431 651
Selwyn Miver	Hororata Kiver tributary	BX22 225 733	BX22 223 737
Sciwyn Kiver	Mitchells Road Springs	BX22 222 737	BX22 219 739
Selwyn Kiver	Hororata River tributary	BX22 219 742	BX22 209 769
Sciwyn Kiver	Hororata River tributary	BX22 195 755	BX22 170 778
Selwyn Kiver	Cordys Stream	BX21 155 783	BX21 139 794
Selwyn Kiver	Hororata River	BX21 153 782	

Selwyn River	Washpen Creek Water Race	BX21 0
Selwyn River	Blacks Stream	BX22 2
Selwyn River	Waianiwaniwa River tributary	BX22 1
Selwyn River	Waianiwaniwa River	BX22 1
Selwyn River	Waianiwaniwa River tributary	BX22 1
Selwyn River	Waianiwaniwa River tributary	BX22 1
Selwyn River	Oyster Gully Stream	BX22 1
Selwyn River	Oyster Gully Stream tributary	BX22 1
Selwyn River	Bush Gully Stream	BX22 1
Selwyn River	Auchendale Pond	BX22
Selwyn River	Caim Hill Stream	BW22
Selwyn River	Waianiwaniwa River tributary	BW21
Selwyn River	Coaltrack Road Water Race	BX22 2
Selwyn River	Surveyors Stream	BX21 1
Selwyn River	Wairiri Stream tributary	BX21
Selwyn River	Steventon Stream	BX21 (
Selwyn River	Irwell River	BX23 4
Sclwyn River	Boundary Creek	BX23 4
Calman Direct	T leave to see the leave to the	RX22

,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	082 900 ICAG	RY21 021 781
Selwyn River	Washpen Creek Water Kace	13.7.21 0.20 7.80	107 1071
Selwyn River	Blacks Stream	BX22 211 875	BW22 209 904
Selwyn River	Wajaniwaniwa River tributary	BX22 194 857	BX22 186 864
Selwyn River	Waianiwaniwa River	BX22 176 860	BW21 124 910
Selwyn River	Waianiwaniwa River tributary	BX22 175 862	BX22 169 866
Selwyn River	Waianiwaniwa River tributary	BX22 175 862	BX22 187 866
Selwyn River	Oyster Gully Stream	BX22 172 869	BX21 151 879
Selwyn River	Oyster Gully Stream tributary	BX22 161 880	BX21 160 883
Selwyn River	Bush Gully Stream	BX22 168 890	BX21 143 890
Selwyn River	Auchendale Pond	BX22 178 894	BX22 178 894
Selwyn River	Cairn Hill Stream	BW22 179 909	BW21 159 912
Selwyn River	Waianiwaniwa River tributary	BW21 158 921	BW21 142 921
Selwyn River	Coaltrack Road Water Race	BX22 245 737	BX22 232 757
Selwyn River	Surveyors Stream	BX21 138 846	BX21 134 856
Selwyn River	Wairiri Stream tributary	BX21 112 838	BX21 062 811
Selwyn River	Steventon Stream	BX21 092 881	BX21 076 890
Selwyn River	Irwell River	BX23 411 649	BX23 400 656
Selwyn River	Boundary Creek	BX23 407 624	BX22 384 644
Selwyn River	Unnamed spring	BX22 381 634	BX22 377 636
Selwyn River	SDC Ellesmere stockwater race and drainage network	BX23 474 582	BX22 351 617
Selwyn River	Doyleston Drain	BY23 480 533	BY23 479 534
Ashburton River	Wheatstone Drain	BY21 034 231	BY21 033 234
Ashburton River	Lake Hood drain	BY21 016 305	BY21 016 304
Ashburton River	Riverbridge Trust Wetland	BY20 914 467	BY20 913 470
Blees Drain	ADC Stockwater race Blees Drain	BY21 030 214	BY21 014 211
Russells Road Drain	Waitai Wetland	BY21 979 203	BY21 984 206
Parakanoi Drain	Parakanoi Drain tributary	BY21 938 244	BY21 939 264
Deals Drain	Deals Drain Tributary	BY20 913 257	BY20 912 259
Hinds River	Fifty Link Drain	BY20 904 211	BY20 877 252
Hinds River	Clearwell Spring	BY20 786 400	BY20 780 407
Hinds River	Hackthorne Road Ford	BY20 767 434	BY20 768 438
Hinds River	Oakleys Road Ford	BY20 754 455	BY20 750 456
Hinds River	Hinds River North Branch	BY20 740 485	BY20 735 496

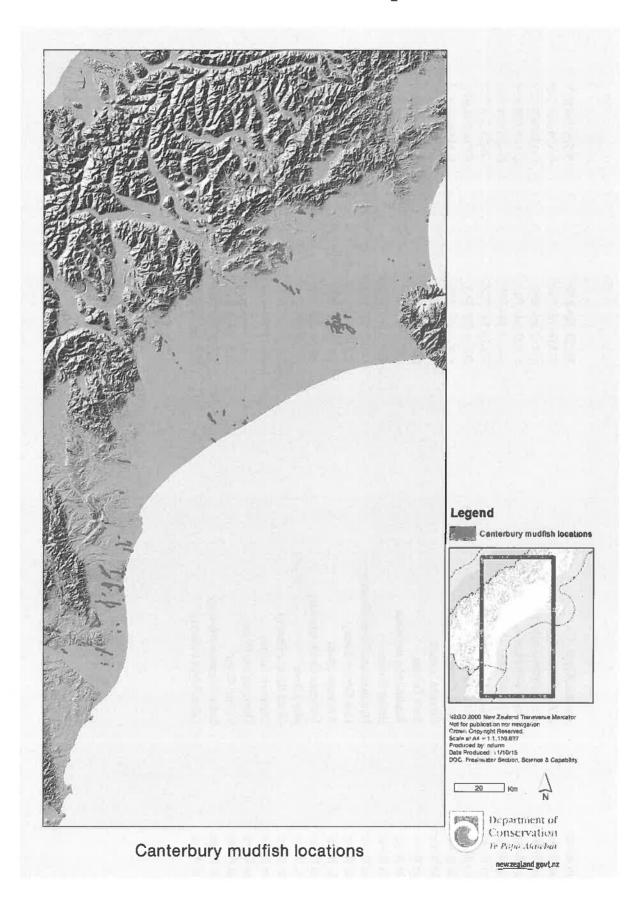
BX20 703 544	BX19 654 599	BZ20 888 150	BZ19 513 061	BZ19 522 933	CA19 551 732	CA19 505 718	CA19 516 754	CA18 414 723	BZ18 423 902	CA19 538 700	CA19 539 630	CA19 485 610	CA19 440 634	CA19 449 554	CA19 522 538	CA19 485 536	CA19 537 496	CA19 451 520	CA18 423 489	CA19 466 474	CB18 401 387	CB19 511 395	CB19 515 367	CB19 489 369	CB18 429 314	CB19 454 286	CB19 450 276	CR18 389 377	CB 18 360 333	CD10 309 322		CB19 469 235
BY20 711 537	BX19 655 598	BZ20 905 136	BZ19 563 052	BZ19 536 928	CA19 570 721	CA19 566 716	CA19 520 745	CA19 465 785	BZ19 449 862	CA19 573 696	CA19 544 615	CA19 542 600	CA19 482 584	CA19 538 548	CA19 538 548	CA19 486 537	CA19 537 496	CA19 463 513	CA19 526 478	CA19 502 471	CB18 435 421	CB19 518 398	CB19 526 368	CB19 491 368	CB19 450 312	CB19 462 284	CB19 448 273	CB18 396 314	CR18 383 316	CR10 405 278	Ç ;	CB19 471 236
Hinds River North Branch tributary	Hinds River North Branch tributary	Dobsons Drain	Rangatira Creek	Papaka Stream	Pareora River tributary	South Burn and Pleasant Valley creeks	Brasells Bridge Spring	Gordons Stream	Taiko Stream	Lyalldale Creek	Springbank Stream	Horseshoe Bend Stream	Teschemakers Creek	Geaneys Creek	Hook Swamp	Wallaces Culvert Creek	Wainono Lagoon	Hook River tributary	Waituna Stream	Waituna Stream tributary	Waikokopara Stream	Buchanans Creek	Sinclairs Creek	Sinclairs Creek	Dog Kennel Stream	Whitneys Creek tributary	Waikakahi Stream Drain	Mt Harris Stream	Ryde Stream	Welcome Creek	Waitaki River tributary	יי מומחות ונו די נו מומומן א
Hinds River	Hinds Kiver	Doosons Drain	Opini Kiver	Washdyke	Pareora Kiver	Pareora Kiver	Pareora Kiver	Pareora Kiver	Fareora Kiver	St Andrews	Horseshoe Bend Stream	Horseshoe Bend Stream	Makikini Kiver	Geaneys Creek	Waihao River	Waihao River	Waihao River	Waihao River	Waihao River	Waihao River	Waihao River	Waihao Kiver	Morven Drain	Morven Drain	Morven Drain	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	

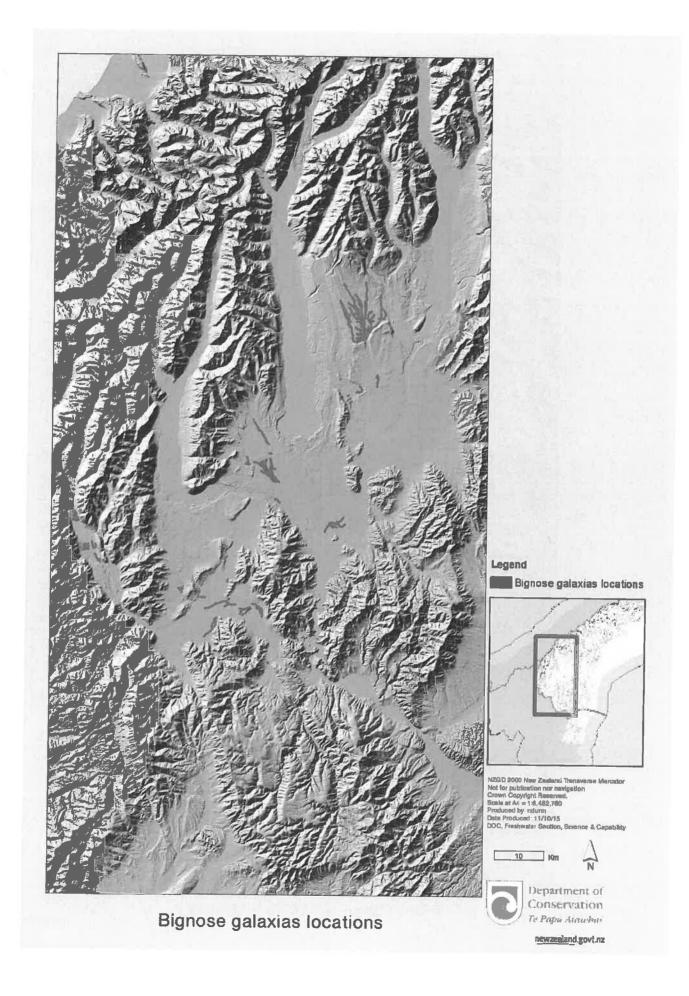
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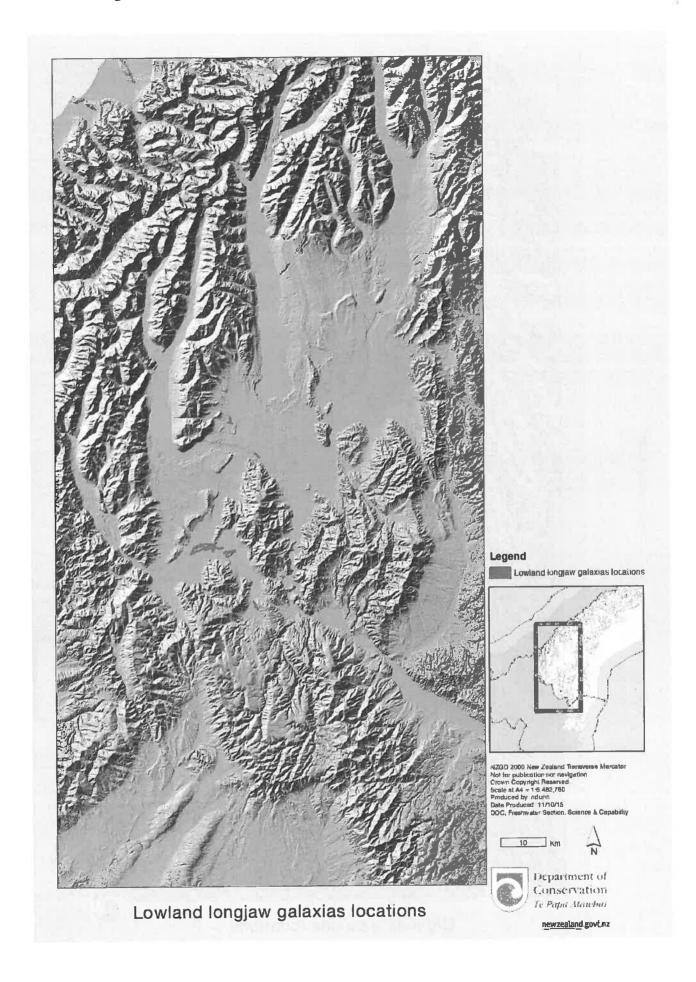
Waitaki River Waitaki River Waitaki River	Waitaki River tributary Waitaki River tributary Waitaki River tributary	CB19 468 235 CB19 449 239 CB18 309 280	CB19 460 234 CB19 447 239 CB18 284 293
Table 2 Schedule of kn	Table 2 Schedule of known lowland longiaw galaxias (Galaxias cobitinis) locations in Canterbury.	ocations in Canterbury.	
Catchment	Location	Topo50 Downstream	Topo50 Upstream
		7 A 17 000 A65	CA17 023 466
waitaki River Waitaki River	Cabbace Tree Chilv Stream	BZ17 135 832	BZ17 153 838
Waitaki River	Nessing Stream	BZ17 135 832	BZ17 157 847
Waitaki River	Edward Stream	BY17 003 191	BY17 069 302
Waitaki River	Ohau River tributary	BZ15 701 916	BZ15 691 925
Waitaki River	Fraser Stream	BZ15 641 992	BZ15 631 993
Waitaki River	Chain Hill Stream	CA15 644 710	CA15 626 695
Waitaki River	Ahuriri River tributary	BZ14 296 963	BZ14 303 981
Waitaki River	Ahuriri River	CA15 618 714	CA15 545 701
Waitaki River	Otamatapaio River	CA15 612 516	CA15 613 486
Waitaki River	Corbies Creek	CA15 686 596	CA15 697 576
Table 3. Schedule of kr	Table 3. Schedule of known bignose galaxias (Galaxias macronasus) locations in Canterbury.	ons in Canterbury.	
Catchment	Location	Topo50 Downstream	Topo50 Upstream
Waitaki River Waitaki River	Ahuriri River Ahuriri River	CA15 618 714 CA14 349 796	CA15 555 706 BZ14 319 833

BZ14 294 897	CA15 648 717	CA15 625 695	CA15 601 765	CA15 546 730	BZ14 296 978	CA15 679 600	BY17 069 302	BY16 865 381	BZ15 649 997	BZ15 631 993	CA17 023 466	CA15 512 751	BY16 821 350	BZ16 889 170	BZ16 854 149	BZ15 691 925	CA15 555 650	CA15 612 508	BZ15 647 080	BZ16 829 875	BZ15 676 015
BZ14 305 878 CA14 384 730	CA15 668 691	CA15 644 711	CA15 598 759	CA15 556 728	BZ14 296 963	CA15 682 598	BY17 003 191	BY16 865 381	BZ15 693 957	BZ15 641 992	CA17 020 465	CA15 509 737	BY16 864 239	BZ16 888 146	BZ16 836 111	BZ15 701 916	CA15 579 688	CA15 612 515	BZ15 678 032	BZ16 789 860	BZ15 684 012
Ahuriri River Ahuriri River East Branch	Ahuriri River tributary	Chain Hill Stream	Willow Burn	Ahuriri River tributary	Aburiri River tributary	Clark Creek	Edward Stream	Fork Stream	Ruataniwha wetlands	Fraser Stream	Hakataramea River tributary	Hen Burn tributary	Irishman Creek	Irishman Creek tributary	Mary Burn	Ohau River tributary	Omarara Stream	Otamatapaio River	Twizel River	Lake Benmore tributary	Lake Poaka tributary
Waitaki River Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River	Waitaki River

## Threatened Fish Maps







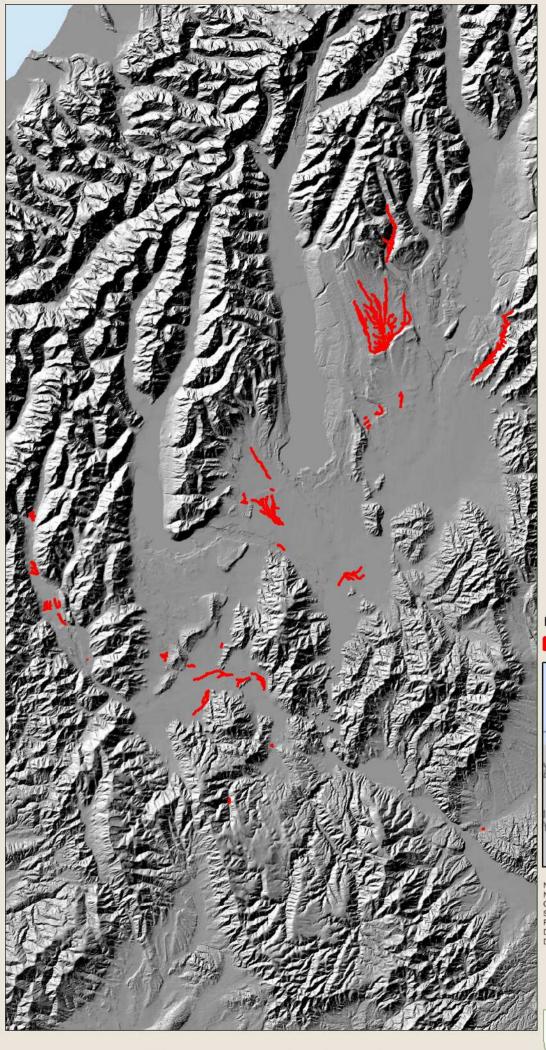
From: <u>Herb Familton</u>

To: Mailroom Mailbox; Jason Holland
Subject: FW: ECan LWRP Plan Change 4 files
Date: Monday, 12 October 2015 4:39:37 p.m.

Enc colour maps of the fish species so that it is easier to read.

herb

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## Legend

Bignose galaxias locations

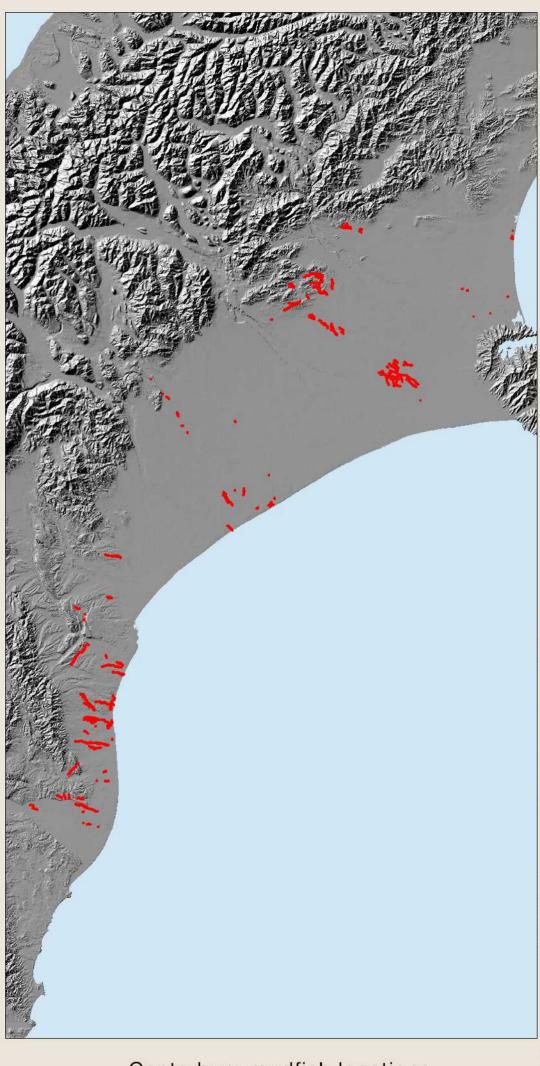


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## Legend

Canterbury mudfish locations

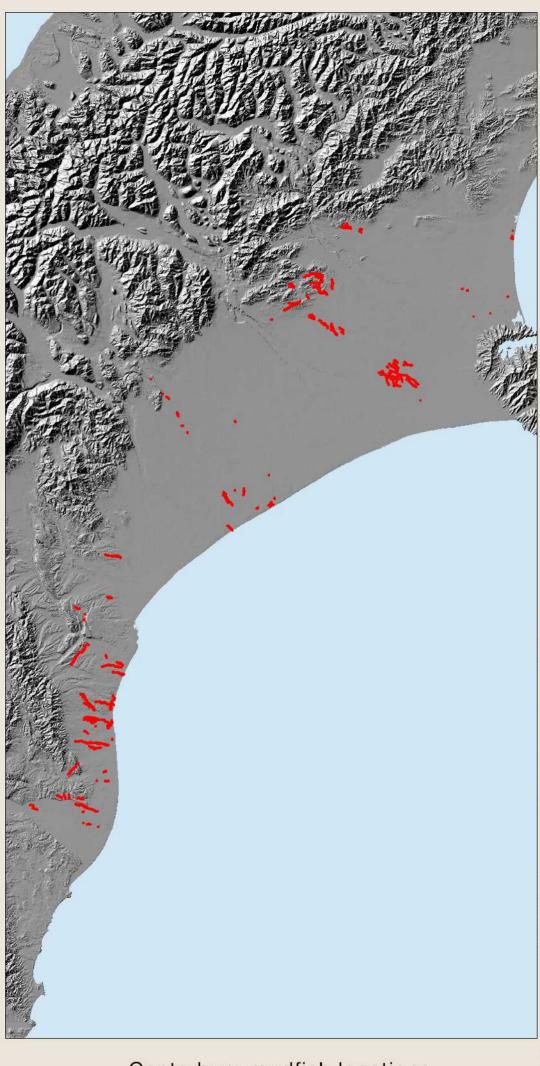


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## Legend

Canterbury mudfish locations



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