



Ministry of Environment

APPLICATION TO COLLECT FISH FOR SCIENTIFIC PURPOSE

FW-17

This application is for use by individuals and organizations wishing to collect freshwater fish in British Columbia inland waters.

Application Guidelines for Scientific Fish Collection Permits

Due to the wide variety of activities that take place under the authorization of this permit, the Ministry has provided the following guidelines to help applicants describe the details and scope that suit their particular sampling program. *For all activities, you are required to familiarize yourself with the provincial and region-specific conditions of your permit, listed in Appendix 'A' of the permit application.*

Questions regarding data report standards can be made to:

fishdatasub@victoria1.gov.bc.ca.

	Activity	Sampling Program Description	Permit Limitations
1. Example	Fish Salvage	Regional Level - Indicate areas within a regional district such as GVRD	Maximum 1 year
	Fish collection associated with in-stream works etc.		
2.	Forestry Stream Classification	Using the TRIM scale, identify the 4 th or 5 th order stream	
3. Example	Environmental Impact Assessment	Project Level	
	Pre and / or post development project monitoring (industrial, linear etc.)	- indicate the project/proponent under which the fish collection activity will take place and the water bodies involved	



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4.	Inventory	Project Level - indicate the project/proponent under which the fish collection activity will take place and the water bodies involved	
	(1) Species abundance and distribution (2) Presence / Absence study		
Example			
5.	Research (fish collection as part of experimental procedure)	Project Level - indicate the project/proponent under which the fish collection activity will take place and the water bodies involved	
	Research to determine how fish populations respond to habitat manipulations		
Example			

ACTIVITY	MOE REGION(S)	WATERBODY OR WATERSHED NAME	WATERSHED CODE
Fish Salvage	Required	Indicate area within region (GVRD, Municipality, etc)	Not Required
Forestry Stream Classification	Required	TRIM scale 4 th order stream or larger	Required
Environmental Impact Assessment	Required	Required	Required
Inventory	Required	Required	Required
Research	Required	Required	Required



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Please complete all sections of this form. Type or print legibly. Attach additional sheets as needed.

Please send completed application with fees and any supporting documents to the Permit and Authorization Service Bureau:

By Mail: PO Box 9372 STN PROV GOVT, Victoria BC, V8W 9M3
By Courier: 4th Floor, 2975 Jutland Rd, Victoria BC, V8T 5J9
By Fax: (250) 387-0922 or through any Government Agent Office

1. APPLICANT INFORMATION:

Applicant's Name: _____

Organization Name (if applicable):

Additional persons conducting work under this permit*:
_____, _____, _____
_____, _____, _____
_____, _____, _____

Mailing Address: _____

Daytime telephone: _____

*Refer to item 9, Appendix "A". Any workers not listed must be supervised by the proponent or one of the additional persons named above.

2. SAMPLING PROGRAM:

Please ensure that you have read and understand the Application Guidelines provided, and the Reporting Guidelines available at "wlapwww.gov.bc.ca/pasb/reports/fish_report.htm"

- 1. Will collection activities involve any lethal sampling? If yes, complete 2.6 Lethal Sampling Program Description. Yes [] No []
2. Will collection activities involve angling in contravention of existing sport fishing regulations? Yes [] No []
3. Will collection activities involve any variances to the listed Permit Conditions (see Appendix A)? Please specify in 2.3 Yes [] No []
4. Will collection activities involve any Species at Risk*? If yes, list affected species. *Refer to Appendix B Table 1: Species at Risk Yes [] No []

_____ common name scientific name



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_____ common name

_____ scientific name

➤ 2.1 SAMPLING PERIOD

Start Date: ____/____/____ End Date: ____/____/____
DD / MM / YYYY DD / MM / YYYY

➤ 2.2 SAMPLING LOCATION(S) (Refer to guidelines)

(For watershed codes, see Fish Wizard at <http://fishwizard.com/>)

ACTIVITY	MOE REGION(S)	WATERBODY OR WATERSHED NAME	WATERSHED CODE

➤ 2.3 SAMPLING OBJECTIVES (see application guidelines) - please describe project and / or project area. You are required to obtain separate permits for additional activities not listed.

➤ 2.4 SAMPLING TECHNIQUES

Circle sampling technique codes that you will be using.

Sampling Technique	Code
Minnow trapping	MT
Angling	AG
Seining	SN
Dead capture	DC
Trap net	TN
Dip netting	DN
Electrofishing	EF
Gill netting	GN



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All of the above	ALL
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➤ 2.5 SPECIES TO BE SAMPLED

Is this sampling program targeting specific species? Yes No

If yes, then please identify all target species.

If no, please indicate potential species encountered.

Use species codes listed in "Appendix B", Table 2: Species Names and Codes.

No permits will be issued for SARA listed species or for salmon other than Kokanee: see "Appendix A", Item 1.

COMMON NAME	SCIENTIFIC NAME	CODE

➤ 2.6 LETHAL SAMPLING PROGRAM DESCRIPTION: Complete the following table only if you answered **yes** to section 2.0: Question 1

TARGET SPECIES	# Of fish	SAMPLE WATERBODY

3.0 FEE: \$25 per activity as noted above

Method of Payment: Cheque/Money Order	<input type="checkbox"/> Payable to Minister of Finance
Credit Card	<input type="checkbox"/> Attach credit card authorization sheet

By signing below, I acknowledge that the information I have provided is true and correct to the best of my knowledge and I am 19 years of age or older. In addition, I have read the Reporting Guidelines and fully understand the level of reporting detail that is expected of myself / my organization, and I ensure that all staff engaged in collection activities under this permit are qualified and trained for collection activities.

Applicant signature

Date

It is an offence to knowingly make a false statement in order to obtain a permit. Violations may result in prosecution under the *Wildlife Act* and/or refusal of future permit or licence requests. Any permit obtained using false information is invalid.

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FW-17

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Appendix A: Fish Collection Permit Conditions

Any Variation of the following terms and conditions will require explicit authorization by the appropriate regional Fish & Wildlife Section Head.

Provincial Conditions

1. This collecting permit is not valid
 - in national parks,
 - in provincial parks unless a Park Use Permit is also obtained,
 - in tidal waters,
 - for species listed as threatened, endangered or extirpated under the Species at Risk Act (SARA)*,
 - for eulachon or for salmon* other than kokanee, or
 - for collecting fish by angling unless the permittee and crew members possess a valid angling licence.

*Contact the Department of Fisheries and Oceans for fish collecting permits for salmon, eulachon or SARA listed species (see Appendix B).

2. The permittee (or the project supervisor) named on the application for a scientific collection permit will carry a copy of this permit while engaged in fish collecting and produce it upon request of a conservation officer, fisheries officer or constable.
3. Any specimens surplus to scientific requirements and any species not authorized for collection in this permit shall be immediately and carefully released at the point of capture.
4. Fish collected under authority of this permit shall not be used for food or any purpose other than the objectives set out in the approved application for a scientific collection permit. The permittee shall not sell, barter, trade, or give away, or offer to sell, barter, trade or give away fish collected under authority of this permit. Dead fish shall be disposed of in a manner that will not constitute a health hazard, nuisance or a threat to wildlife.
5. No fish collected under authority of this permit shall be
 - transported alive unless authorized by this permit, or
 - transplanted unless separately authorized by the Federal/Provincial Fish Transplant Committee.
6. The permittee shall, within 90 days of the expiry of this permit, submit to the Permit and Authorization Service Bureau a summary report of collecting activities. Interim reports may also be required and shall be submitted as required by the permit issuer. All submissions must be filed electronically to: http://www.env.gov.bc.ca/fish_data_sub/. PDF Reports, PDF Maps and sampling data submitted in the Field Data Information System (FDIS for short) are not mandatory but are encouraged when available. Prior notification of submission or questions regarding data report standards can be made to: fishdatasub@gov.bc.ca.



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FW-17

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7. This collecting permit is subject to cancellation at any time and shall be surrendered to a conservation officer on demand or to the issuer upon written notice of its cancellation.
8. This permit is valid only for the activities approved on the application form and in accordance with any restrictions set out therein.
9. This permit is valid only for trained, qualified staff named in the Application. The permittee will comply with all Workers' Compensation Board requirements and other regulatory requirements. Permit holders are responsible for ensuring staff members listed on the permit are properly certified for specific sampling methods or activities (e.g., electroshocking).
10. All sampling equipment that has been previously used outside of B.C. must be cleaned of mud and dirt and disinfected with 100mg/L chlorine bleach before using in any water course to prevent the spread of fish pathogens (e.g. Whirling disease) and / or invasive plant species. Any washed off dirt or mud must be disposed of in a manner such that it cannot enter a watercourse untreated.
11. No electrofishing is to take place in waters below five degrees C.
12. Electrofishing may not be conducted in the vicinity of spawning gravel, redds, or spawning fish, or around gravels which are capable of supporting eggs or developing embryos of any species of salmonid at a time of year when such eggs or embryos may be present.
13. Permits covering multiple watersheds or extended time periods:
 - a. Are applicable only in the identified regions and for the identified time periods;
 - b. Do not apply to the collection of adult salmonids unless specifically authorized;
 - c. Include electrofishing, minnow trapping and seining techniques only;

Please print out the notice verifying the information you submit as it becomes part of your permit and must be attached to your original Scientific Fish Collection Permit.

Region Specific Conditions

Region 1 (Vancouver Island)

- There shall be no electrofishing in streams above 630 metres in elevation, in anadromous waters, or in lake tributaries from January 1 to June 30.

Region 2 (Lower Mainland)

- Any fish collection activities taking place in waters known to harbour steelhead trout must have the express approval of the Regional Fish and Wildlife Section Head.
- Electrofishing and minnow trapping can harm or kill non-target species of management concern such as the endangered Coastal Giant Salamander (within the Chilliwack River drainage system) and Pacific Water Shrew (within the lower Fraser River Valley). Any incidental captures (alive or dead) of any red- or blue-listed

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FW-17

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wildlife species must be reported to the Ministry of Environment, Lower Mainland Region. For further information on these species or to report incidental captures, please call Ross Vennesland, Species at Risk Biologist, MOE, Surrey at (604) 582-5200 or by email at ross.vennesland@gov.bc.ca.

- Please refer to the following website for the least risk in-stream work windows: http://wlapwww.gov.bc.ca/sry/wateract/terms_conditions.html. Where possible, collection should be conducted during the least risk work windows identified. The exception is seasonal or ephemeral streams where sampling may not be possible during the prescribed window due to flow conditions.

Regions 3 and 8 (Thompson/Nicola and Okanagan)

- Please refer to information at: http://wlapwwwt.gov.bc.ca/sir/fwh/fsh/work_windows/index.html for the appropriate instream work windows.

Region 4 (Kootenays), 7A (Omineca) and Region 7B (Peace)

- No electrofishing will be permitted between September 15 and June 15 in streams containing bull trout.

Region 7B (Peace)

- The permittee must advise Region 7B (Peace) of sampling activities 48 hours prior to field operations. Please complete the following notification form: http://www.env.gov.bc.ca/pasb/reports/fish/permit_notify7b.html
- Lethal fish sampling for metal analysis to environmental studies must have an approved sampling plan prior to any field work. Discussion should be held with Environmental Impact Biologists:
Bruce Carmichael 250-565-6455 and/or Gabi Matscha 250-565-7103

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FW-17

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Appendix B Table 1 - Species at Risk

The following are species at risk that have been listed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) as either endangered, threatened or a species of special concern. Species also listed under the Species at Risk Act (SARA) are identified with an asterisk, and are subject to additional permitting requirements through the Federal Department of Fisheries and Oceans (DFO).

Common Name	Scientific Name
Benthic Paxton Lake Stickleback	* <i>Gasterosteus sp.</i>
Benthic Vananda Creek Stickleback	* <i>Gasterosteus sp.</i>
Limnetic Paxton Lake Stickleback	* <i>Gasterosteus sp.</i>
Limnetic Vananda Creek Stickleback	* <i>Gasterosteus sp.</i>
Nooksack Dace	* <i>Rhinichthys sp.</i>
Morrison Creek Lamprey	* <i>Lampetra richardsoni</i>
Cowichan Lake Lamprey	* <i>Lampetra macrostoma</i>
Cultus Pygmy Sculpin	* <i>Cottus sp.</i>
Shorthead Sculpin	* <i>Cottus confusus</i>
Hotwater Physa	* <i>Physella wrighti</i>
Limnetic Enos Lake Stickleback	<i>Gasterosteus sp.</i>
Benthic Enos Lake Stickleback	<i>Gasterosteus sp.</i>
Salish Sucker	<i>Catostomus sp.</i>
Speckled Dace	<i>Rhinichthys osculus</i>
Charlotte Unarmoured Stickleback	<i>Gasterosteus aculeatus</i>
Columbia Mottled Sculpin	<i>Cottus bairdi hubbsi</i>
Giant Stickleback	<i>Gasterosteus sp.</i>
Green Sturgeon	<i>Acipenser medirostris</i>
Umatilla Dace	<i>Rhinichthys umatilla</i>
White Sturgeon	<i>Acipenser transmontanus</i>

Applications for permits to specifically collect and retain listed species must be reviewed by the appropriate Recovery Team, who will screen permits to ensure that any impacts on listed species are acceptable. For white sturgeon the contact is Steve McAdam (Steve.McAdam@gov.bc.ca). For listed non-game freshwater fish the contact is Jordan Rosenfeld (jordan.rosenfeld@gov.bc.ca), co-chair of the Non-Game Freshwater Fish Recovery Team.

Table 2 – Species Names and Codes

Common name	Scientific Name	Code	Common name	Scientific Name	Code
American Shad	<i>Alosa sapidissima</i>	SH	Mottled Sculpin	<i>Cottus bairdi</i>	CBA
Arctic Char	<i>Salvelinus alpinus</i>	AC	Mountain Whitefish	<i>Prosopium williamsoni</i>	MW
Arctic Cisco	<i>Coregonus autumnalis</i>	CA	Ninespine Stickleback	<i>Pungitius pungitius</i>	NSB
Arctic Grayling	<i>Thymallus arcticus</i>	GR	Nooksack Dace	<i>Rhinichthys sp</i>	NDC
Arctic Lamprey	<i>Lampetra</i>	AL	Northern Mountain Sucker	<i>Catostomus platyrhynchus</i>	MSU
Arctic Smelt	<i>Osmerus mordax dentex</i>	ASM	Northern Pearl Dace	<i>Margariscus margarita</i>	PDC
Bering Cisco	<i>Coregonus laurettae</i>	CB	Northern Pike	<i>Esox lucius</i>	NP
Black Catfish/Bullhead	<i>Ameiurus melas</i>	BKH	Northern Pikeminnow	<i>Ptychocheilus oregonensis</i>	NSC
Black Crappie	<i>Pomoxis nigromaculatus</i>	BCB	Northern Redbelly Dace	<i>Phoxinus eos</i>	RDC
Brassy Minnow	<i>Hybognathus hankinsoni</i>	BMC	Pacific Lamprey	<i>Lampetra tridentata</i>	PL
Bridgelip Sucker	<i>Catostomus columbianus</i>	BSU	Peamouth Chub	<i>Mylocheilus caurinus</i>	PCC
Broad Whitefish	<i>Coregonus nasus</i>	BW	Prickly Sculpin	<i>Cottus asper</i>	CAS
Brook Stickleback	<i>Culaea inconstans</i>	BSB	Pumpkinseed Sunfish	<i>Lepomis gibbosus</i>	PMB
Brook Trout	<i>Salvelinus fontinalis</i>	EB	Pygmy Longfin Smelt	<i>Spirinchus sp</i>	PLS
Brown Catfish (Brown Bullhead)	<i>Ameiurus nebulosus</i>	BNH	Pygmy Whitefish	<i>Prosopium coulteri</i>	PW



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Brown Trout	<i>Salmo trutta</i>	GB	Rainbow Smelt	<i>Osmerus dentex</i>	RSM
Bull Trout	<i>Salvelinus confluentus</i>	BT	Rainbow Trout	<i>Oncorhynchus mykiss</i>	RB
Burbot	<i>Lota lota</i>	BB	Redside Shiner	<i>Richardsonius balteatus</i>	RSC
Carp	<i>Cyprinus carpio</i>	CP	River Lamprey	<i>Lampetra ayresi</i>	RL
Charlotte Unarmoured Stickleback	<i>Gasterosteus sp</i>	SB3	Round Whitefish	<i>Prosopium cyclindraceum</i>	RW
Chiselmouth (Chiselmouth Chub)	<i>Acrocheilus alutaceus</i>	CMC	Salish Sucker	<i>Catostomus sp</i>	SSU
Coastrange Sculpin	<i>Cottus aleuticus</i>	CAL	Sharpnose Sculpin	<i>Cinocottus acuticeps</i>	CCA
Coastal Cutthroat Trout	<i>Oncorhynchus clarki clarki</i>	CCT	Shorthead Sculpin	<i>Cottus confusus</i>	CCN
Cultus Lake Sculpin	<i>Cottus sp</i>	CCL	Slimy Sculpin	<i>Cottus cognatus</i>	CCG
Crayfish	<i>Pacifastacus leniusculus</i>	CRA			
Deepwater Sculpin	<i>Myoxocephalus thompsoni</i>	CMT	Smallmouth Bass	<i>Micropterus dolomieu</i>	SMB
Dolly Varden	<i>Salvelinus malma</i>	DV	Speckled Dace	<i>Rhinichthys osculus</i>	SDC
Emerald Shiner	<i>Notropis atherinoides</i>	ESC	Spoonhead Sculpin	<i>Cottus ricei</i>	CRI
Eulachon	<i>Thaleichthys pacificus</i>	EU	Spottail Shiner	<i>Notropis hudsonius</i>	STC
Fathead Minnow	<i>Pimephales promelas</i>	FM	Squanga	<i>Coregonus sp</i>	SQ
Finescale Dace	<i>Phoxinus neogaeus</i>	FDC	Staghorn Sculpin	<i>Leptocottus armatus</i>	CLA
Flathead Chub	<i>Platygobio gracilis</i>	FHC	Starry Flounder	<i>Platichthys stellatus</i>	SFL
Giant Pygmy Whitefish	<i>Prosopium sp</i>	GPW	Steelhead	<i>Oncorhynchus mykiss</i>	ST
Giant Stickleback	<i>Gasterosteus sp</i>	SB8	Tench	<i>Tinca tinca</i>	TC
Golden Trout	<i>Oncorhynchus aguabonita</i>	GT	Threespine Stickleback	<i>Gasterosteus aculeatus</i>	TSB
Goldeye	<i>Hiodon alosoides</i>	GE	Tidepool Sculpin	<i>Oligocottus maculosus</i>	COM
Goldfish	<i>Carassius auratus</i>	GC	Torrent Sculpin	<i>Cottus rhotheus</i>	CRH
Green Sturgeon	<i>Acipenser medirostris</i>	GSG	Troutperch	<i>Percopsis omiscomaycus</i>	TP
Inconnu	<i>Stenodus leucichthys</i>	IN	Umatilla Dace	<i>Rhinichthys umatilla</i>	UDC
Kokanee	<i>Oncorhynchus nerka</i>	KO	Walleye	<i>Stizostedion vitreus</i>	WP
Lake Chub	<i>Couesius plumbeus</i>	LKC	Western Brook Lamprey	<i>Lampetra richardsoni</i>	BL
Lake Cisco	<i>Coregonus artedii</i>	CL	Westslope Cutthroat Trout	<i>Oncorhynchus clarki lewisi</i>	WCT
Lake Lamprey	<i>Lampetra macrostoma</i>	LL	White Sucker	<i>Catostomus commersoni</i>	WSU
Lake Trout	<i>Salvelinus namaycush</i>	LT	Yellow Perch	<i>Perca flavescens</i>	YP
Lake Whitefish	<i>Coregonus clupeaformis</i>	LW	Balkwill Lake Benthic Stickleback	<i>Gasterosteus sp</i>	SB1
Largemouth Bass	<i>Micropterus salmoides</i>	LMB	Balkwill Lake Limnetic Stickleback	<i>Gasterosteus sp</i>	SB2
Largescale Sucker	<i>Catostomus macrocheilus</i>	CSU	Emily Lake Benthic Stickleback	<i>Gasterosteus sp</i>	SB4
Least Cisco	<i>Coregonus sardinella</i>	CS	Emily Lake Limnetic Stickleback	<i>Gasterosteus sp</i>	SB5
Leopard Dace	<i>Rhinichthys falcatus</i>	LDC	Enos Lake Benthic Stickleback	<i>Gasterosteus sp</i>	SB6
Longfin Smelt	<i>Spirinchus thaleichthys</i>	LSM	Enos Lake Limnetic Stickleback	<i>Gasterosteus sp</i>	SB7
Longnose Dace	<i>Rhinichthys cataractae</i>	LNC	Paxton Lake Benthic Stickleback	<i>Gasterosteus sp</i>	SB12
Longnose Sucker	<i>Catostomus catostomus</i>	LSU	Paxton Lake Limnetic Stickleback	<i>Gasterosteus sp</i>	SB13
Morrison Creek Lamprey	<i>Lampetra richardsoni marifaga</i>	MCL	Priest Lake Benthic Stickleback	<i>Gasterosteus sp</i>	SBB
Mosquitofish	<i>Gambusia affinis</i>	GAM	Priest Lake Limnetic Stickleback	<i>Gasterosteus sp</i>	SBP

For further information: <http://www.env.gov.bc.ca/pasb/index.html>

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Victoria 952-0932; Elsewhere in BC 1-866-433-7272