



**FISH COLLECTION PERMIT**  
**Fish Salvage**  
**Amended June 11, 2019**

File: 34770-20

ATS Project: 269827

Permit No.: FJ18-289155

Permit Holder: BC Hydro Power and Authority – Michael McArthur  
333 Dunsmuir Street  
Vancouver BC V6B 5R4

Authorized Persons: Michael McArthur, Jason Jones, Matt Henderson, Natasha Bush, Katherine Garrah, Chris Grant, Jocelyn White, Brent Mossop, Steve Sharron, David Winarski, Mark Latham, Todd Sherstone, Shannon Lawrence, Bev Rhoel, Peter Frost, Jacqueline Pizzey, Pamela Grabowski and Shaleena Watson.

Pursuant to section 19 of the *Wildlife Act*, RSBC 1996, Chap. 488, and section 18 of the Angling and Scientific Regulations, BC Reg. 125/90, the above named persons are hereby authorized to collect fish for scientific purposes from non-tidal waters subject to the conditions set forth in this Permit:

**Permitted Sampling Period: May 31, 2018 to December 29, 2023**

**Permitted Waterbodies: Peace Region – See Appendix C**

**Permitted Sampling Techniques: DN, EF, MT (subject to permit terms and conditions)**

**Potential Species: See Appendix D (subject to permit terms and conditions)**

**Provincial Conditions: (Permit holders must be aware of all terms and conditions):**

See Appendix A.

**Region Specific Conditions:**

See Appendix A.

**Authorized by:**

**Greg Van Dolah**  
**A/ Regional Manager**  
**Recreational Fisheries and Wildlife Programs**  
**Peace Region**

**Date: August 14, 2018**

Permit Fee \$25

**This permit supersedes FJ18-289155 issued on June 6, 2018**

**Any contravention or failure to comply with the terms and conditions of this permit is an offense under the *Wildlife Act*, RSBC 1996, Chap. 488 and B.C. Reg. 125/90.**

## 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 eulachon or for salmon\* other than kokanee, or
  - for collecting fish by angling unless the permit holder and crew members possess a valid angling licence.

This collecting permit is **only** valid for species listed as threatened, endangered or extirpated under the Species at Risk Act (SARA) **in conjunction with a permit issued under Section 73 of SARA from Fisheries and Oceans Canada.**

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

2. The permit holder (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 permit holder 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 permit holder shall submit a report annually within 90 days of the end of field activities related to this permit, or 30 days from the end of each calendar year, whichever is earlier. All submissions must be filed electronically to: [http://www.env.gov.bc.ca/fish\\_data\\_sub/index.html](http://www.env.gov.bc.ca/fish_data_sub/index.html)

Reporting specifications, information and templates are available from this website and outline the mandatory information requirements. Prior notification of submission or questions regarding data report standards can be made to: [fishdatasub@gov.bc.ca](mailto:fishdatasub@gov.bc.ca)

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 permit holder will comply with all Worker's 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. Any workers not listed on the permit must be supervised by the permit holder or one of the additional persons as named on the permit.

## Appendix A: Fish Collection Permit Conditions Continued

11. 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.
12. No electrofishing is to take place in waters below five degrees C.
13. 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.
14. Angling must only occur in accordance with the regulations specified in the current BC Freshwater Fishing Regulations Synopsis.

### Region Specific Conditions

#### Peace Region

- The permit holder must advise Region 7B (Peace) of sampling activities 48 hrs prior to field operations. Please complete the following notification form:  
[http://www.env.gov.bc.ca/pasb/reports/fish/permit\\_notify7b.html](http://www.env.gov.bc.ca/pasb/reports/fish/permit_notify7b.html)
- Voucher specimens for all regionally significant red and blue-listed species (3 per species) must be submitted to the Regional Fish Information Specialists as per RISC standards.
- No electrofishing will be permitted between September 15 and June 15 in streams containing bull trout.
- All sampling gear follow Association of Professional Biologists' advisory practice bulletin #5. Practice Advisory – Didymo, see: <https://www.professionalbiology.com/sites/default/files/pdfs/Didymo.pdf>
- All staff identified within the list must provide proof of documentation of their valid certification and indicate which registered professional biologist is supervising this work to the Province prior to initiating this work.

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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>
Vancouver Lamprey (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>
West Slope Cutthroat Trout	* <i>Oncorhynchus clarki lewisi</i>
White Sturgeon	<i>Acipenser transmontanus</i>

Applications for permits to specifically collect and retain listed species must be reviewed by the appropriate provincial expert, 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](mailto:steve.mcadam@gov.bc.ca)). For listed non-game freshwater fish the contact is Jordan Rosenfeld ([jordan.rosenfeld@gov.bc.ca](mailto:jordan.rosenfeld@gov.bc.ca)).

**Appendix C: Table 1 – Permitted Waterbodies**

<b>Latitude</b>	<b>Longitude</b>	<b>Watershed Code</b>
56.13722	-120.965	Trib to 234-000000-00000-00000-0000-0000
56.13646	-120.966	Trib to 234-000000-00000-00000-0000-0000
56.13632	-120.968	Trib to 234-000000-00000-00000-0000-0000
56.13546	-120.97	Trib to 234-000000-00000-00000-0000-0000
56.13409	-120.974	Trib to 234-000000-00000-00000-0000-0000
56.13212	-120.982	Trib to 234-000000-00000-00000-0000-0000
56.09633	-121.108	234-127100-00000-00000-0000-0000
56.09512	-121.114	234-127100-00000-00000-0000-0000
56.09469	-121.113	234-127100-00000-00000-0000-0000
56.0957	-121.111	234-127100-00000-00000-0000-0000
56.0934	-121.117	234-127100-00000-00000-0000-0000
56.09402	-121.116	234-127100-00000-00000-0000-0000
56.08916	-121.132	234-127100-00000-00000-0000-0000
56.09052	-121.13	234-127100-00000-00000-0000-0000
56.08995	-121.131	234-127100-00000-00000-0000-0000
56.09124	-121.128	234-127100-00000-00000-0000-0000
56.08943	-121.135	234-127100-00000-00000-0000-0000
56.08931	-121.134	234-127100-00000-00000-0000-0000
56.0888	-121.137	234-127100-00000-00000-0000-0000
56.08861	-121.134	234-127100-00000-00000-0000-0000
56.08777	-121.141	234-127100-00000-00000-0000-0000
56.08718	-121.141	234-127100-00000-00000-0000-0000
56.0879	-121.139	234-127100-00000-00000-0000-0000
56.08708	-121.142	234-127100-00000-00000-0000-0000
56.0819	-121.16	Trib to 234-127100-00000-00000-0000-0000
56.09161	-121.127	234-127100-00000-00000-0000-0000
56.09193	-121.123	234-127100-00000-00000-0000-0000
56.09302	-121.122	234-127100-00000-00000-0000-0000
56.09385	-121.12	234-127100-00000-00000-0000-0000
56.09412	-121.118	234-127100-00000-00000-0000-0000
56.09419	-121.118	234-127100-00000-00000-0000-0000
56.09359	-121.118	234-127100-00000-00000-0000-0000
56.09406	-121.115	234-127100-00000-00000-0000-0000
56.08158	-121.162	Trib to 234-127100-00000-00000-0000-0000
56.08101	-121.162	Trib to 234-127100-00000-00000-0000-0000
56.08149	-121.161	Trib to 234-127100-00000-00000-0000-0000
56.07908	-121.17	234-127100-00000-00000-0000-0000

56.0332	-121.344	Trib to 234-160500-40700-00000-0000-0000
56.03214	-121.35	Trib to 234-160500-40700-00000-0000-0000
56.0317	-121.355	Trib to 234-160500-40700-00000-0000-0000
56.04285	-121.296	Trib to 234-160500-02400-61000-1000-0000
56.0423	-121.298	Trib to 234-160500-02400-61000-1000-0000
56.0727	-121.193	234-135700-70741-00000-0000-0000
56.06801	-121.207	234-135700-70741-00000-0000-0000
56.06058	-121.234	234-146300-00000-00000-0000-0000
56.0566	-121.249	234-146300-00000-00000-0000-0000
56.05453	-121.256	234-146300-00000-00000-0000-0000
56.05522	-121.256	234-146300-00000-00000-0000-0000
56.05394	-121.258	234-146300-00000-00000-0000-0000
56.05439	-121.26	234-146300-00000-00000-0000-0000
56.05371	-121.26	234-146300-00000-00000-0000-0000
56.03102	-121.358	Trib to 234-160500-40700-00000-0000-0000
56.0307	-121.36	Trib to 234-160500-40700-00000-0000-0000
56.03026	-121.361	Trib to 234-160500-40700-00000-0000-0000
56.0277	-121.379	Trib to 234-160500-00000-00000-0000-0000
56.02465	-121.399	234-160500-52100-00000-0000-0000
56.08757	-121.142	234-127100-00000-00000-0000-0000
56.08799	-121.14	234-127100-00000-00000-0000-0000
56.08981	-121.134	234-127100-00000-00000-0000-0000
56.03747	-121.323	234-160500-40700-00000-0000-0000
56.03095	-121.363	Trib to 234-160500-40700-00000-0000-0000
56.09678	-121.109	234-127100-00000-00000-0000-0000
56.09477	-121.116	234-127100-00000-00000-0000-0000
56.09068	-121.127	234-127100-00000-00000-0000-0000
56.04962	-121.274	Trib to 234-160500-02400-61000-1000-0000
56.03396	-121.345	Trib to 234-160500-40700-00000-0000-0000
56.035516848	-121.33517561	Trib to 234-000000-00000-00000-0000-0000
56.14706	-120.954175	
56.1414495	-120.9611243	
56.1198467	-121.0259054	

**Appendix D: Table 1 – Permitted Species**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Code</b>
Bull Trout	<i>Salvelinus confluentus</i>	BT
Rainbow Trout	<i>Oncorhynchus mykiss</i>	RB
Burbot	<i>Lota lota</i>	BB
Arctic Grayling	<i>Thymallus arcticus</i>	GR
Goldeye	<i>Hiodon alosoides</i>	GE
Walleye	<i>Sander vitreus</i>	WP
Kokanee	<i>Oncorhynchus keta</i>	KO
Northern Pikeminnow	<i>Esox lucius</i>	NP
Spottail Shiner	<i>Notropis hudsonius</i>	STC
Northern Pearl Dace	<i>Margariscus margarita</i>	PDS
Prickly sculpin	<i>Cottus asper</i>	CAS
Finescale Dace	<i>Phoxinus neogaeus</i>	FDC
Flathead Chub	<i>Platygobio gracilis</i>	FHC
Lake Chub	<i>Couesius plumbeus</i>	LKC
Redside Shiner	<i>Richardsonius balteatus</i>	RSC
Troutperch	<i>Percopsis omiscomaycus</i>	TP
Slimy Sculpin	<i>Cottus cognatus</i>	CCG
Brook Stickelback	<i>Culaea inconstans</i>	BSB
Longnose Dace	<i>Rhinichthys cataractae</i>	LNC
Spoonhead Sculpin	<i>Cottus ricei</i>	CRI

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