

# Fraser Salmon & Watersheds Program



## 2008 Final Report Template

<b>FSWP File Number*</b>	<b>07350-35/FSWP 08 HPR D69</b>
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Please use the FSWP File Number provided in previous FSWP 2008 project correspondence

Contact Information					
<b>Sponsoring Organization's Legal Name</b>					
Fraser River Sturgeon Conservation Society					
Are you a federally registered Charity, Non-profit organization or Business (Yes /No)?					Yes
If yes, please indicate which.	Yes	Charity	Yes	Non-profit organization	Business
Registration number	86735 0282 RR0001		GST number	86735 0282 RR0001	
Are you a registered Society (Yes / No)?		Yes	Society Registration number		S-0037432
Mailing Address					
Attn: Sarah Sugiyama Fraser River Sturgeon Conservation Society 300 - 3820 Cessna Drive Richmond, BC V7B 0A2					
Street Address (if different from above)					
Project Manager <sup>1</sup>					
Name: Gordon Glova			Title: Project Manager		
Affiliation: LGL Limited			Phone: (250) 656-0127		
Fax: ( )		E-mail: Gordon Glova <gglova@lgl.com>			
<sup>1</sup> All correspondence will be directed to the Project Manager.					
Alternate Project Contact					
Name: Troy Nelson		Title: Director of Science			
Affiliation: Fraser River Sturgeon Conservation Society			Phone: ( )		
Fax: ( )		E-mail: troy@frasersturgeon.com			
Partners / Subcontractors					
Name:			Affiliation:		
Phone: ( )			E-mail:		

## Project Information

### Project Title

Fish immigration/emigration and habitat use in the lower Hatzic watershed

### Project Location: Lower Hatzic Lake watershed

**Amount Requested**

**Requested \$27,500; granted \$15,000**

**Total Project Value**

**\$25,000**

**Non-FSWP funds<sup>2</sup>**

**\$10,000**

<sup>2</sup> Non-FSWP funds include both cash and in-kind funding. In-kind funding refers to all non-cash contributions such as equipment, supplies, labour, etc. Please refer to Budget Section for further details.

## Project Summary

Please provide a single paragraph describing your project, its objective, and the results. As this summary will be used in program communications, clearly state the issue addressed and avoid overly technical descriptions. Do not use more than 300 words.

The objective of this project was to obtain information on salmonid, white sturgeon and other species (natives and exotics) presence, habitat use, and migration success above and below the pumping station in the lower Hatzic watershed. Sampling was done in June (pumps operating) and August (pumps deactivated), but not in early spring (when pumps not operating) as FSWP funding was not approved until late May. An inventory was obtained of the numbers and sizes of fish caught by species during the two sampling periods. In June, the catch comprised juvenile salmonids (coho and steelhead), white sturgeon (size range 262-1120 mm FL) and several other native (sticklebacks, sculpins, suckers, pikeminnows, peamouth chub, redbside shiners) and non-native (black crappie, pumpkinseed sunfish, carp) species. In August, no salmonids were captured, and the catch of white sturgeon (size range 329-402 mm FL) and other species (both natives and exotics) was reasonably similar to that sampled in June. No sturgeon were caught above the pumping station in either sampling period. Some differences occurred in the catch above and below the pumping station, but as the habitat of these areas differed appreciably and sampling was limited, it is not possible to discern what effects the pumping station has on fish movements. The three-spine stickleback was the most common native species, whereas pumpkinseed sunfish and black crappie were the most common non-native species in both sampling periods.

**OPTIONAL** If your project lends itself to sparking interest through a compelling sound bite (for potential use in FSWP media communications), please tell us what that sound bite would be. Do not use more than 150 words.

**Species and life stage(s) the project targets: please list: White sturgeon (juveniles and sub-adults); juvenile and adult Pacific salmonid spp. (coho, chum, steelhead)**

<b>Watershed(s) the project targets: please list</b>
<b>Lower Hatzic Lake and outflow to Fraser River</b>

**Project Deliverables and Results**

▪ Paste in the deliverables outlined in your Detailed Proposal (question #3 under project 'relevance and significance' heading) into the table below. Then, please list the results associated with each deliverable.  
 ▪ Please include copies of any relevant communications products (brochures, posters, videos, website addresses etc.) resulting from this project.

Deliverable	Result
Presence of juvenile salmon and sturgeon in Hatzic Slough above and below the pumping station	<i>Juvenile salmonids consisted of coho and steelhead; sturgeon caught ranged from 262-1120 mm long</i>
Presence of adult salmon in Hatzic Slough above and below the pumping station	<i>None was sampled</i>
Fish habitat use and basic water quality above and below the pumping station	<i>The habitat both above and below the pumping station consisted of deep water and sluggish flow; dissolved oxygen levels and water temperatures were within acceptable ranges</i>

**Project Effectiveness**

Please evaluate the effectiveness of the project, using the objective standards, quantifiable criteria and/or quality control measures identified in your Detailed Proposal (under question #1 in the 'performance expectations' heading).

The working relationship between the FRSCS and local First Nations crew was excellent throughout the project period. The success of this project was evident in completion of the various tasks within acceptable standards and performance levels:

- Consistency in sampling effort at the specified sites and times
- Continuity in data collection methodology
- Data entry and management
- Data analysis and mapping of results
- Preparation of final report to high standard
- Dissemination of final report to the appropriate audience.

**What are the top three lessons learned from this project that would be important to communicate to others doing similar work throughout the Basin?**

- Initiate sampling program as per time specified in the proposal
- Inform land owners and locals of project and duration of study
- Obtain pump operation schedule from on-site engineer

## Project Effectiveness

Please describe how your project has addressed each Priority Activity identified in your Detailed Proposal.

Priority Activity <sup>1</sup>	How the Priority Activity has been Addressed
This project applied a multi-party/multi species approach involving a First Nations field crew to conduct site specific sampling during given time periods to gather information to address access improvements for salmon, sturgeon, and other species in the lower Hatzic watershed.	The effectiveness of this approach to the project is rated as highly successful. Sampling in early spring was missed due to late approval of funding from FSWP, but otherwise all sampling requirements were met to high standard.

<sup>1</sup>Please paste each priority activity identified in your Detailed Proposal in the space provided.

## Further Comments

Please provide any further comments including recommendations for future conservation efforts and suggestions for helping partners to meet the goals of the Fraser Salmon and Watersheds Program. If your project produced a narrative or scientific report or additional project products (e.g. maps, photos), attach them as an appendix.

A data report from the contractor is in draft (March 2009) and will be forwarded to FSWP Once finalized.

## Submission Instructions

Please send your Final Report electronically to your designated FSWP Staff Contact. If you are uncertain who this person is or how to contact them, please contact Tiffany Pither, FSWP Administrator.

Email: [tpither@psf.ca](mailto:tpither@psf.ca)

Phone: (604) 664-7664 Ext 119