

2010/11 FINAL REPORT

FSWP File Number*	#FSWP 10XX63HWRS
--------------------------	------------------

* Please use the FSWP File Number provided in previous FSWP project correspondence.

1. Project Information

1.1. Project Title

Blurton Creek-Coho Habitat Restoration Project

1.2. Proponent's Legal Name

Lower Shuswap Stewardship Society

1.3. Project Location

Thompson Region John Schaap/farm-Blurton Creek

1.4. Contact for this report

Name: Susan Everatt

Phone: 250-838-7636

Email: susan_everatt@telus.net

1.5 Funding Amount

Original Approved Grant Amount:	Total FSWP Expenditures:	Final Invoice Amount:	Final Non-FSWP leveraging, including cash and in-kind:
\$21,315.00	18530.85	1298.00	12189.06

2. Project Summary

Please provide a single paragraph describing your project, its objectives, and the results. As this summary may be used in program communications, clearly state the issue(s) that were addressed and avoid overly technical descriptions. Maximum 300 words.

The 2010-11 Blurton Creek-Coho Habitat Restoration Project on the John Schaap Farm in Mara had three main objectives. The first objective was the completion of a multi-year Coho habitat restoration project on Blurton Creek where it passes through the John Schaap Farm. This final stage of the project included: re-contouring and stabilizing the remaining eroding stream banks, creating shady holding pools with large blast rock and woody debris, narrowing and deepening the flow of Blurton Creek where needed, intergrading rock and debris in the channels to create a more natural habitat for fish, planting the newly disturbed riparian areas with pacific willow brush layers and other native species of trees and bushes, and also fill planting previously restored areas where needed.

The second objective, to prevent livestock from entering the restoration area, was achieved by building a 280 meter post and 4 strand wire fence. This fence was the final fence to be built to completely protect the site from livestock access. Two movable gated watering sites were added to the project (by request of the land owner) to allow livestock access to water for drinking only.

The 3rd objective was to raise awareness of salmon species in the watershed and provide capacity building opportunities for the Lower Shuswap Stewardship Society, the local Splat'sin First Nation,

Farmland Riparian Interface Stewardship Program and the Department of Fisheries and Oceans. The FSWP allowed the possibilities for our partnerships with FRISP, DFO and Splat'sin 1st Nations with the funds that they provided for this project. LSSS see's many more projects in the future with these partners.

OPTIONAL: Please give a short statement (up to 100 words) of the most compelling activity or outcome from your project.

The most compelling activity of the Blurton Creek –Coho Habitat Restoration Project was the opportunity for the **Lower Shuswap Stewardship Society** to start and complete this 1st restoration project. We now have learned so much about the whole process from start to finish. Many of the things we have learned will be valuable lessons that we can put into practice in future endeavors. We hope to complete many more restoration projects on the Lower Shuswap River in the future.

3. Final Project Results and Effectiveness

3.1 Please copy THE EXPECTED DELIVERABLES from your detailed proposal and insert into this table. Add additional rows as needed. Then describe the FINAL DELIVERABLES (the tangible end products resulting from this work) associated with each expected Deliverable.

If FINAL DELIVERABLES differ from the original EXPECTED DELIVERABLES, please describe why, and the implications for the project.

EXPECTED DELIVERABLES	FINAL DELIVERABLES
1 .280 m. of fencing from the farm access to the bridge	280 m. of post and wire fencing from farm access to bridge. This more sturdy, permanent, and livestock proof fence was possible and less costly than the combination electric and buck and rail fencing that was proposed.
2. 12 Habitat recruitment structures	12 habitat recruitment structures
3. Partner relationship developed between LSSS and Spat'sin 1 st Nations, LSSS and DFO and LSSS and FRISP	Partner relationship developed between LSSS and Spat'sin 1 st Nations, LSSS and DFO and LSSS and FRISP
4. 6000M2 riparian area fill planted	Approx. 5000 M2 riparian area fill planted
5. 2 movable livestock watering stations for livestock	As per request from land owner we installed 2 movable watering stations for livestock to access creek for drinking only. They will not be able to walk into the creek.

3.2 Please evaluate the EFFECTIVENESS of your project in achieving Project Objectives. Identify the indicators you have used to measure the effectiveness of your project. Please include any notable successes or challenges.

1. The new and better fence will be very effective in meeting the objective of keeping the livestock out of the project area. It will now be impossible for the livestock to enter the creek in this fenced off area from bridge to bridge. The Landowner was not 100% on board, but he was convinced with the compromise of adding the 2 watering stations so his livestock could still get water from the creek. The original electric and buck and rail which the landowner wanted would have been very difficult to maintain and most likely not been effective in keeping out the livestock.
2. The visual indicators of the completed in- stream work showed very immediate positive results. The deposition of one of the outside corners which was causing flooding of the farm land was armoured with wood and rock structures. This, in combination with filling the pool behind with large woody debris and rock, visually indicated that the creek flow had ceased to flow into this area. Other areas sites used rock and wood to create the hydraulic conditions that would cause scouring to form and to maintain pools and thalweg depth causing deepening and narrowing of the creek. These structures also showed immediate positive results. The riparian plantings and willow brush layers will have to be monitored in the spring. The success will be dependant on the permanent exclusion of the livestock in the riparian. Failure of achieving this has been biggest cause of riparian planting failures in the past projects.
3. The Lower Shuswap Stewardship Society had a very positive relationship with all the partners in the project. We very much look forward to working with DFO, FRISP and Splat'sin 1st Nation again. We are already discussing possible projects with Splat'sin on their Shuswap River land in Enderby. Through Splat'sin there is a possibility of added BC Hydro as a future project partnership.

3.4 IF applicable, please describe how your project has achieved one or more of the following supported processes (Section 2.2 of RFP; section 7 of detailed proposal template). If results differ from those originally anticipated, please describe.

<p>Engagement of First Nations. Please specify who, and in what capacity.</p>	<p>Don Cooke from Spat'sin First Nations in Enderby was hired to do the machine work for the project. Kevin Felix from Spat'sin First Nation in Enderby was hired as a student trainee for treeplanting, fencing, job shadowing for in-stream work and machine work. He was paid through the Splat'sin 1st Nations with the funds that FSWP supplied for him to be part of our team. Bart Thomas from Splat'sin was hired as a tree planter and supplied pacific willow stock for the project and also assisted in the pick up and delivery of native plant stock from Nursery.</p>
<p>Active partnerships with one or more organizations.</p>	<p>DFO Partnered with LSSS in providing valuable information for the project and also most of the fencing materials. FRISP provided the environmental Professional and Engineer for the project prescription and also the on-site in stream foreperson and in-stream permit.</p>
<p>Engagement and participation of diverse and under-represented groups.</p>	
<p>Relationship building, as a foundation for sustainable, enduring activities.</p>	<p>We will hire our local 1st nation's contractors again if we have the opportunity. We are currently discussing partnering in other projects with Splat'sin 1st nation.</p>
<p>Capacity building, including mentorship models, leadership training and skills development.</p>	

Recognition and support of champions and their initiatives.	
Opportunities to influence policy and decision making,	
3.5 Please describe how the benefits of this project will be sustained and/or be built upon into the future. What are the planned next steps, or recommendations for further work, if applicable?	
The benefit of this project, being that it has tremendously improved the fish habitat in the Lower Blurton Creek, will be sustained and yearly improved as the riparian plants take hold. This site could be used as a marker of possibilities for other members of the neighboring farm community in Mara.	
3.6. What are the top three lessons learned from this project that could be useful to communicate to others doing similar work in the Basin?	
<ol style="list-style-type: none"> 1. Making sure landowner is 100% on board and willing to cooperate and embrace the basis concept of why the work is being completed. 2. To thoroughly examine access to the project site to make sure heavy rock trucks are able to get to designated project points. 3. Be prepared for schedule changes as stream work is dependant on water levels, weather and other unpredictable situations. 	
REQUIRED: Attach all DOCUMENTATION of Final Deliverables, and LIST attachments in Section 7. These may include technical reports, maps, photos, evidence of communications, lists of meeting participants, etc.	

4. Outreach and Communications

Please describe how you have communicated project activities and results within local and basin-wide communities, across organizations and/or to decision makers.

Please list and attach copies of (or links to) any communications materials from these efforts that you have not previously submitted.

The Enderby and District Chamber of Commerce Newsletter <http://www.enderbychamber.com>

The Lower Shuswap Stewardship Society Web page www.lowershuswap.org

Kingfisher Community Newsletter same article as above

Mara Community Newsletter same article as above