



2017-18

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Forest Enhancement  
Society of British Columbia

\*Projects highlighted in green are cofounded by the [Forest Enhancement Society of BC](#)

### Projects Taking Place in Multiple Regions

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Crown Land Securement Partner Program	0-339	The Crown Land Securement Partner Program will assist the Province to secure fish and wildlife habitat reserves through the Land Act and to complete the background, communications, and consultation work required to bring forward proposed Wildlife Management Area designations for up to 20 sites in BC over the next five years.	\$25,000.00	Laurie Desrosier The Nature Trust of British Columbia 604 924 9771 laurie@naturetrust.bc.ca
Fisher Habitat Conservation -	0-365	This project will provide opportunities for training and the application of best	\$28,770.00	Richard Weir Ministry of Environment



Provincial Extension Program		management practices to a variety of forestry practitioners who make decisions that affect the supply of fisher habitat throughout British Columbia.		250 356 8186 Rich.Weir@gov.bc.ca
Naturekids BC: Nature Clubs Project	0-398	NatureKids BC Nature Clubs Project builds the next generation of outdoor enthusiasts and lifelong environmental stewards through a strategy of youth engagement and action. In this cycle, 7500 youth ages 5-12 in 50 nature clubs across BC will learn about and step up for nature with 1500 hands-on, outdoor nature adventures and stewardship projects.	\$20,001.00	Louise Pedersen Young Naturalists' Club of BC Society 604-985-3059 louisepedersen@naturekidsbc.ca
White Sturgeon Questionnaire/ Recreational Fishery Monitoring	0-406	This project will use information provided by White Sturgeon anglers and licensed non-tidal Angling Guides through reports, mail-outs, electronic questionnaires and 2016 ground and aerial surveys to report on White Sturgeon fishing effort and catch in the middle and lower Fraser River during the 2016/2017 angling license year.	\$35,135.00	Erin Stoddard Ministry of Forests, Lands and Natural Resource Operations (MFLNRO) 604-582-5374 Erin.Stoddard@gov.bc.ca
BC/TNTBC Joint Conservation Land Management	0-451	The 2017-2020 Wildlife O+M application package is a province-wide wildlife O+M application jointly submitted with the Nature Trust of British Columbia. Funding provided by HCTF will assist with the operation and maintenance of approximately 115 significant wildlife habitat areas across British Columbia.	\$617,500.00	Karen Wipond MFLNRO HQS 250 356-7669 Karen.Wipond@gov.bc.ca
Helping Trappers Maintain Sustainable Harvests of Fishers and Wolverines	0-460	This project aims to use landscape genetic analyses to identify functional population units for fishers and wolverines within BC. This information will be used to help trappers and wildlife managers better evaluate sustainable harvest levels for these wide-ranging, low-density species of conservation concern.	\$37,805.00	Richard Weir Ministry of Environment 250 356 8186 Rich.Weir@gov.bc.ca
Wild/Domestic Sheep and Goat Separation	0-466	To fund a part time provincial program coordinator to deliver a multi-stakeholder, BC and First Nations government, program that reduces the risk of disease transmission from domestic sheep/goats to wild sheep through education, outreach, research, farm-by-farm mitigation, positive marketing for Wild Sheep Safe certification, and the development of overarching regulatory framework.	\$37,500.00	Helen Schwantje MFLNRO HQS 250-953-4285 helen.schwantje@gov.bc.ca



Grizzly Bear Coexistence Solutions	0-467	Human-grizzly bear conflicts create very real and tangible threats for BC rural residents and recovering grizzly bear populations, especially in low elevation bear habitats that overlap with agricultural activities. This project promotes coexistence between grizzly bears and residents by providing education and outreach about attractant management and using correctly installed and maintained electric fencing to reduce grizzly bear conflicts regarding crops and livestock. As conflicts are reduced, tolerance for grizzly bears will be increased and human/grizzly bear coexistence will be improved in low elevation habitats that provide linkage between grizzly bear populations.	\$20,761.00	Gillian Sanders British Columbia Conservation Foundation (Kamloops) 250-353-1137 grizzlybearsolutions@gmail.com
Got Bats? B.C. Community Outreach, Conservation And Citizen Science Project	0-476	"Got Bats?" is a network of 20 community bat projects across BC that promotes bat conservation through the detection and protection of bat roosts, education to counter negative attitudes towards bats, installation of bat-houses, and a province-wide Citizen Science bat count to engage the public and detect declines due to White Nose Syndrome and other threats. Implemented by local established stewardship organizations with direct landowner contacts in each region, the importance of this initiative has been widely recognized by the BC Government and BC Bat Action Team, and support of the program is a high priority action item in the newly released Action Plan.	\$74,851.00	Katie Calon British Columbia Conservation Foundation 604-576-1433 kcalon@bccf.com
Provincial Fisheries O&M	0-485	The Provincial Fisheries O+M program provides funding for the operations and maintenance of fisheries infrastructure.	\$320,000.00	Vicki Lewis MFLNRO HQS 250-387-9788 vicki.lewis@gov.bc.ca
Clarifying Problematic Distributions And Habitat Use Of Amphibians Using Environmental DNA Methods.	0-500	This project investigates the distribution of four frog species of conservation concern, focusing primarily on the endangered Oregon Spotted Frog.	\$43,542.00	Kristiina Ovaska Biolinx Environmental Research Ltd. 250-727-9708 ke.ovaska@gmail.com
South Chilcotin Grizzly Bear Habitat Selection	0-503	The intent of this project is to develop multiple scale resource selection function (RSF) spatially explicit habitat models across the threatened South Chilcotin Grizzly Bear Population Unit (GBPU). This project is necessary to facilitate	\$63,672.00	Francis Iredale MFLNRO Reg 3 250-371-6241 francis.iredale@gov.bc.ca



		full recovery of the threatened South Chilcotin GBPU.		
An Investigation of Factors Limiting Grizzly Demography in British Columbia	0-509	This project will identify drivers of grizzly bear abundance, and its' determinants, survival and reproduction across the province. Investigation will focus on the causal links between demography and functional variables such as specific food resources and kill densities. Insights from this work will be of great utility for both fine and large-scale management of this species within the province and across its' range.	\$29,800.00	Clayton Lamb Ministry of Environment 778-215-0334 ctlamb@ualberta.ca
Monitoring And Protecting BC's Bat Diversity Prior To White-Nose Syndrome	0-511	White-nose Syndrome has devastated eastern bat populations, and was just detected in the Pacific Northwest. We will work with cavers, biologists, and citizens to identify critical bat habitats and establish baseline species diversity and relative abundance reference points needed for future monitoring, surveillance, mitigation, and recovery.	\$53,850.00	Cori Lausen Wildlife Conservation Society Canada clausen@wcs.org
Provincial White Sturgeon Management Working Group Support	0-519	This project will obtain support for the coordination and development of a management working group for White Sturgeon in BC.	\$7,700.00	Greg Andrusak MFLNRO HQS 250-953-4763 greg.andrusak@gov.bc.ca
Grasslands Conservation Council of British Columbia	0-520	This project is working to revitalize the Grasslands Conservation Council of BC.	\$27,500.00	Dave Hillary GCCBC 250 688-1508 dave@bcgrasslands.org
Determining Factors That Affect Survival of Moose In Central BC	0-522	In response to declining moose numbers in central BC, a 5-year Provincially coordinated moose research study was initiated in 2013. This 2-year HCTF project will enable a Postdoctoral Fellow to analyze 5-years of survival of collared cow moose (Dec 2013–Mar 2018) with reference to the landscape-change hypothesis to help inform moose management in BC.	\$75,258.00	Michael Gillingham University of Northern British Columbia 250-960-5825 michael@unbc.ca
Developing Reliable Knowledge and Tools for Conserving Grizzly Bear Populations Across West-Central BC	0-528	Reliable information of grizzly bear population abundance, distribution, connectivity and evidence for related trends is badly needed across west-central BC. This seed project will (1) develop a multi-year survey strategy and sampling design, (2) identify and build collaborative partnerships, and (3) develop a proposal tailored to specific funding options.	\$5,000.00	Clayton Apps Aspen Wildlife Research Inc. 403-270-8663 clayton.apps@telus.net



## Approved Projects on Vancouver Island

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Keogh River Steelhead Population Dynamics	1-319	The Keogh River Research Facility has been in operation since 1976 to annually enumerate salmonid smolt output and winter run steelhead adult returns. The ability to fully enumerate smolt output provides a unique opportunity to obtain precise and accurate smolt-to-adult survival used to understand population and recruitment dynamics of steelhead populations in BC.	\$123,900.00	Trevor Davies MFLNRO 250-387-3561 Trevor.Davies@gov.bc.ca
Fostering Wetland and Upland Restoration For Fish and Wildlife on Salt Spring Island, BC	1-490	Building on a successful Year 1, the Salt Spring Island Conservancy's (SSIC's) project will restore and protect freshwater sources, particularly by enhancing and restoring wetland, riparian and upland habitat on its Blackburn Lake Nature Reserve. The restoration work will help protect freshwater sources and fish and wildlife habitat into the future, as the site is protected in perpetuity.	\$35,000.00	Christine Torggrimson Salt Spring Island Conservancy 250-538-0318 christine@saltspringconservancy.ca
Flow Augmentation To Increase Steelhead Production	1-509	The project will evaluate the benefits of flow augmentation to increase juvenile steelhead summer rearing habitat and smolt production as a restoration method for depressed steelhead populations.	\$37,159.00	Trevor Davies MFLNRO 250-387-3561 Trevor.Davies@gov.bc.ca
Georgia Depression Western Bluebird Reintroduction Project	1-538	This project will re-establish a breeding population of Western Bluebirds to their historic range in the Georgia Depression, contributing to building a self-sustaining regional population in the Salish Sea. Through extensive community engagement, it will enhance integrity and protection of endangered Garry Oak ecosystems and build a core of citizen scientists and stewards for long-term habitat conservation.	\$30,000.00	Alina Fisher Garry Oak Ecosystems Recovery Team 250-383-3427 bluebird@goert.ca
Estimating Cougar Populations on Northern VI Using DNA Mark-Recapture	1-589	This project utilizes DNA-based mark-recapture inventory techniques and closed spatial mark-recapture modelling to create science-based cougar population estimates for Northern Vancouver Island. This project is properly designed, includes partnerships/stakeholders, and is science based, cost-effective and repeatable.	\$ 36,885.00	Jerry MacDermott MFLNRO 250-751-3229 Jerry.MacDermott@gov.bc.ca
West Coast Roosevelt Elk Augmentation	1-599	The primary objective of this project is to re-establish viable Roosevelt Elk populations in wilderness areas of the West Coast Region while mitigating conflicts through translocation	\$15,000.00	Billy Wilton MFLNRO 250-751-3213 william.wilton@gov.bc.ca



And Recovery Project		of elk from agricultural areas and along the highways of Vancouver Island, BC. Partnerships with community organizations, stakeholders, industry and First Nations governments, for translocations are key to facilitate recovery of this blue-listed species on Vancouver Island. Relocated herds will help improve ecosystem function and provide future opportunities for sustenance and recreational uses in new population units.		
Western Toad Winter Habitat Requirements In Modified Landscapes on Vancouver Island	1-613	Western Toads will be radio-tracked to hibernation sites in a highly modified landscape on Vancouver Island to determine if toads select winter habitats that are limited in supply and under threat, producing guidance for winter habitat conservation practices applicable throughout BC.	\$17,002.00	Elke Wind E. Wind Consulting 250-716-1119 ewind@telus.net
Lower Cowichan River Riparian Rehabilitation Program	1-623	On the lower Cowichan River in Year 2 (2017/18), BC Conservation Foundation will continue to partner with the CVRD, Cowichan Tribes administration and band members to deliver a second season of live-staking/planting at prioritized sites, following an approved multi-year Riparian Rehabilitation Plan.	\$23,000.00	James Craig British Columbia Conservation Foundation 250-390-2525 jcraig@bccf.com
Little Qualicum, Englishman and Chemainus River Fish Habitat Structure Enhancements	1-631	In Year 2 of 3, BCCF will re-examine fish habitat structures installed in the Chemainus River between 2004 and 2007, confirm actions required and perform structural upgrades, key maintenance and safety improvements to maximize fish rearing opportunities, extend structure life and cost-effectiveness, and reduce failure risk.	\$36,801.00	Kevin Pellett British Columbia Conservation Foundation 250-390-2525 kpellett@bccf.com
Millstone River - Lower River Reach and Estuary Assessment And Restoration	1-642	In a multi-year initiative working with the Snuneymuxw First Nation, City of Nanaimo, local landowners, area stewardship groups and education institutions, BCCF will conduct a fish habitat assessment of the Millstone River's tidal reach and estuary with the goals of restoring it to a more natural and productive state for fish and wildlife, and informing the community about this valuable natural resource. With stakeholder input and support, BCCF will produce assessments and prescriptions in Year 1 as part of a multi-year plan, undertake restoration activities in Years 2 and 3, and monitor initial results in Years 3 and 4.	\$29,995.00	Michael Friesen British Columbia Conservation Foundation 250-390-2525 loc 229 mfriesen@bccf.com



Vancouver Island Small Lake Enrichment - Program Expansion	1-644	Using established lake fertilization techniques with proven performance, this program aims to enrich up to six small lakes on Vancouver Island to enhance or produce trophy fisheries for Rainbow and Cutthroat Trout, as well as a Kokanee fishery, a potential first for Vancouver Island.	\$36,763.00	Jeremy Damborg British Columbia Conservation Foundation 250-390-2525 jdamborg@bccf.com
Martha Warde Property	1-647	This Land Stewardship Grant will fund the completion of a management plan for the natural values on the property.	\$2,500.00	Paul Chapman Nanaimo Area Land Trust 250-714-1990 admin@nalt.bc.ca
Parnassian Woods	1-648	This Land Stewardship Grant will fund the completion of a baseline study and management plan for the natural values on the property.	\$3,500.00	Paul Chapman Nanaimo Area Land Trust 250-714-1990 admin@nalt.bc.ca
Blackburn Nature Reserve	1-649	This Land Stewardship Grant will support land management activities including monitoring of restored wetland areas, removal of invasive species, and public access management. Funding amount is for three year term.	\$41,000.00	Laura Matthias Salt Spring Island Conservancy 250 538-0318 laura@saltspringconservancy.ca
Cowichan Garry Oak Preserve	1-650	This Land Stewardship Grant will support land management activities including management planning and further restoration of the Garry Oak ecosystem. Funding amount is over three year term.	\$ 20,280.00	Chris Perrin The Nature Conservancy of Canada 250 479-3191 chris.perrin@natureconservancy.ca
Simms Millennium Park Riparian Habitat Enhancement for Fish and Wildlife	1-653	An off-channel riparian area on a tidally influenced section of the Courtenay River will be redesigned and enhanced to improve habitat for fish and waterfowl.	\$19,899.00	Jennifer Sutherst Comox Valley Project Watershed Society 250-703-2871 estuary.projectwatershed@gmail.com
Lower Gordon River Channel Rehabilitation To Improve Fish Passage	1-654	Channel over widening and gravel accumulation in the lowermost reach of the Gordon River has resulted in several very shallow riffles. One riffle in particular has prevented upstream movement of both Steelhead adults as well as several salmon species in recent years. The extent of the issue appears to be flow related with persistent low flow conditions resulting in the longest delays. This project will use a combination of low-risk channel rehabilitation techniques at a site-specific scale.	\$ 27,842.00	Kevin Pellett British Columbia Conservation Foundation 250 390 2525 kpellett@bccf.com
Dove Creek Gravel Trap: Protect	1-662	A side channel gravel trap will be designed and excavated in Dove Creek. After removal of up to 1500 cubic meters of material the trap edge	\$24,858.00	Angela Spooner Tsolum River Restoration Society





Recovering Watershed / Trout Rearing Habitat		and outflow will be bio-engineered to enhance rearing habitat using blast rock, locally found boulders and large woody debris. On-going monitoring will evaluate success.		250-897-4670 trrs.projectcoord@gmail.com
Cowichan Shoreline Stewardship - Fish & Wildlife Habitat Restoration Pilots (Phase 2)	1-663	At several private and/or public lake shore and upper river properties, innovative bioengineering and habitat improvement techniques will be used to restore aquatic and riparian ecological productivity. Projects will engage resource professionals, volunteers, students, lake/river shore owners, elected officials and local media in successful demonstrations of the value of naturalized shorelines, partnerships and enhanced stewardship practices.	\$30,000.00	Craig Wightman British Columbia Conservation Foundation 250-390-2525 cwightman@bccf.com
Cowichan River Steelhead Population Dynamics	1-665	This project will take advantage of a major investment in modern tag detection equipment recently installed in the lower Cowichan River. A dual PIT tag detection array allows for the study of freshwater and marine survival as well as behavior including migration timing. PIT tags are inexpensive relative to other forms of electronic tags allowing thousands of individuals to be marked. Tagging of juvenile and adult Steelhead will provide data which could be used to inform ongoing watershed management actions.	\$36,275.00	Kevin Pellett British Columbia Conservation Foundation 250 390 2525 kpellett@bccf.com
Restoring The Englishman River Estuary: Improving Habitat for Fish and Wildlife	1-666	This project aims to restore coastal processes and improve fish and wildlife habitat in the Englishman River estuary. In partnership with government and local stewardship groups, we will remove a historical dike in the western estuary, enhance tidal channels, increase habitat complexity, remove invasive plants, and conduct public outreach.	\$42,438.00	Karen Barry The Nature Trust of British Columbia 604-350-1988 Karen.Barry@gov.bc.ca
Evaluating Furbearer Populations On Southern Vancouver Island	1-668	This collaborative project will use non-invasive survey techniques to evaluate the distribution and abundance of Vancouver Island ermines, Pacific martens, and American minks on southern Vancouver Island to help trappers and land managers maintain sustainable populations of these species in coastal British Columbia.	\$43,077.00	Richard Weir Ministry of Environment (0) 250 356 8186 Rich.Weir@gov.bc.ca
Little Qualicum Estuary - Feasibility Of Mill Pond Restoration Project	1-673	The Mill Pond on the north side of the Little Qualicum River Estuary is an anthropogenic, ~3,600 square meter feature likely associated with a small log storage and milling operation at least 50-60 years ago. This site is now included in the Parksville-Qualicum Beach	\$5,000.00	Craig Wightman British Columbia Conservation Foundation 250-390-2525 cwightman@bccf.com





		Wildlife Management Area, managed by the MFLNRO (Nanaimo). The objective of this project is to conceptualize a restoration project for this degraded estuarine habitat and build a partnership base for implementation.		
The Role Of Predators In Black-Tailed Deer Ecology	1-675	Working with key stakeholders, First Nations, and provincial biologists, this seed proposal will quantify the link between landscape change, forage availability, weather, and the impact of predators on black-tailed deer.	\$4,859.00	Adam Ford University of British Columbia Okanagan 250-807-9773 atford@gmail.com
Enhancing Coexistence For Large Carnivores And Farmers In Southern V.I.	1-676	The aim of this seed project is to propose a 3-year long program focused on enhancing farmers and large carnivores' coexistence (i.e., bears, cougars and wolves) in the Capital Regional District (CRD) in southern Vancouver Island.	\$5,000.00	Nitya Harris Coexisting with Carnivores Alliance 250-590-6370 nityaharris@gmail.com
Settlement Lands	1-678	This Land Stewardship Grant will support land management activities including enhancement of habitat for species at risk, including the Taylor's Checkerspot butterfly. This funding amount is over three year term.	\$19,500.00	John Millen Denman Conservancy Association 250-335-2868 millenj@telus.net



*Translocated elk leave the truck in the Phelps Elk Population Unit on Vancouver Island (Project 1-599)*



## Approved Projects in the Lower Mainland

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Establishing Agricultural Waterfowl and Raptor Habitat on the Lower Fraser	2-349	Approximately 1,190 hectares of upland agricultural habitat will be established on the lower Fraser River delta, which is located within the largest estuary on the Pacific coast of Canada. Farmers located in the Municipalities of Delta and City of Richmond will establish grassland habitat in the form of winter cover crops and grassland set-asides, in order to provide high-quality feeding and roosting habitat for resident and migratory waterfowl and raptors.	\$20,000.00	Drew Bondar Delta Farmland and Wildlife Trust 604-940-3392 drew@deltafarmland.ca
Lower Fraser River White Sturgeon Monitoring and Assessment Program 2017-2018	2-375	This project delivers annual abundance estimates and growth rates, by size and age group, of lower Fraser River White Sturgeon, and is used by provincial authorities to conserve and manage the resource. The 2017-18 project will be the 18th consecutive year of the program.	\$ 98,875.00	Sarah Schreier Fraser River Sturgeon Conservation Society 778-322-7345 sarah@frasersturgeon.com
Learn to Fish Program (L2F)	2-390	Learn to Fish (L2F) is designed to break down barriers to recreational fishing, introducing youth and adults to the sport. HCTF funds will be used to deliver L2F programs in urban centres as well as rural communities across all regions of BC. FFSBC with funding from HCTF and other partners aims to put 25,000 participants through L2F in 2017/18.	\$ 80,000.00	Mike Gass Freshwater Fisheries Society of BC 250 414-4200 Mike.Gass@gofishbc.com
Lower and Middle Fraser White Sturgeon Recovery Working Group Support	2-455	This project provides supporting resources for the coordination and management of the Lower and Middle Fraser River Sturgeon Technical and Community Recovery Working Groups	\$9,307.00	Erin Stoddard MFLNRO Reg 2 604-582-5374 Erin.Stoddard@gov.bc.ca
South Coast Grizzly Bear Ecology & Cumulative Effects Research	2-464	This project is investigating several aspects of grizzly bear ecology, with a focus on space-use and movements relative to influential factors of habitat and human activity. Results will be directly relevant to understanding and predicting short- and long-term implications of cumulative human impacts on grizzly bear recovery and conservation.	\$60,000.00	Clayton Apps Aspen Wildlife Research Inc. 403-270-8663 clayton.apps@telus.net
Lower Fraser White Sturgeon Telemetry Study	2-530	This long-term (10 yr.) study is monitoring mature adult White Sturgeon movements, migrations and habitat use through the acoustic tracking of individual adult sturgeon within and between over-wintering, feeding and spawning habitats in the Lower Fraser, Pitt and Harrison River systems to assess patterns, frequency and fidelity of use.	\$44,428.00	Erin Stoddard MFLNRO Reg 2 604-582-5374 Erin.Stoddard@gov.bc.ca



Conservation of Threatened Raptors on the Sunshine Coast	2-552	We will conduct surveys to identify occupied sites and nest trees for Western Screech-Owls and Northern Goshawks on the Sunshine Coast, and work with government, First Nations, industry, and landowners to protect these sites. Complementary public engagement activities will improve awareness and participation in stewardship activities.	\$14,700.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 mjevelyn@gmail.com
Temporal Variability in Sturgeon Abundance in Lower Fraser Spawning Areas	2-568	We propose to conduct three weekly side-scan sonar surveys at each of the 10 most important Lower Fraser White Sturgeon spawning sites in June 2017. Coupled with previous data, the work will assess the inter- and intra-annual variability in the abundance of mature-sized sturgeon at these known spawning sites.	\$37,471.00	Karl English Fraser River Sturgeon Conservation Society 250-656-0127 kenglish@lgl.com
Ryder Lake Amphibian Protection Project	2-571	This project supports a community in its ongoing conservation efforts to mitigate the impact of their vehicles on at-risk amphibian populations. We will evaluate the effectiveness of a new amphibian crossing structure design and use this information to support other stewardship groups in their amphibian conservation efforts.	\$9,500.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@fraservalleyconservancy.ca
Sturgeon Bank Restoration: Determining the Cause of Salt Marsh Retreat	2-573	The salt marsh and mudflat on the Fraser River Delta foreshore supports internationally significant numbers of migratory and wintering birds and is one of the most important bird habitats in Canada. It also provides critical habitat for many species of anadromous and marine fish, including out-migrating Pacific salmon. Field survey data has revealed that the salt marsh on Sturgeon Bank in the provincially designated Wildlife Management Area has receded up to 500 m (33%) between 1989 and 2011, but restoration action can't take place until the cause is known. This project will test four hypotheses proposed to explain the proximate cause of the retreat in a 3 year comparative study of Sturgeon Bank and nearby Westham Island, where the salt marsh is relatively stable.	\$37,500.00	Brent Gurd MFLNRO Reg 2 604-586-5645 brent.gurd@gov.bc.ca
Sunshine Coast Community Wildlife Habitat Stewards	2-574	We will increase habitat protection, enhance wildlife habitat, and encourage sound land care practices on the Sunshine Coast by engaging landowners and community members; providing resources, tools, training and support; and facilitating community involvement in habitat enhancement activities.	\$19,940.00	David Stiles Sunshine Coast Wildlife Project 604-886-1910 coastwildlife@gmail.com
Lower Fraser White Sturgeon Spawning Habitat	2-576	This is the 3rd year of a 3 year project to deploy spawn mats and D-ring drift nets to assess and confirm new sturgeon spawning sites in the lower Fraser River. This project is critical to better	\$23,112.00	Erin Stoddard Ministry of Environment 604-582-5374 Erin.Stoddard@gov.bc.ca



Confirmation Project		understand the reproductive capacity and recovery potential of the population and to provide future protection for the sites and for the sturgeon that use them.		
Squamish River Bull Trout Angler Use, Migration and Spawning Behaviour	2-581	We propose to conduct a 3-year study to evaluate coastal Bull Trout angling effort and to identify Bull Trout distribution, habitat usage, spawning locations and migration patterns in the Squamish River Watershed. This study will produce a baseline CPUE dataset on Bull Trout in the Squamish River Watershed and help identify critical habitat locations for conservation purposes.	\$48,975.00	Caroline Melville Instream Fisheries Research Inc. 604-428-8819 caroline@instream.net
Seymour River Rockslide Mitigation Project	2-587	Restoration of fish passage through the Seymour River rockslide.	\$104,947.00	Brian Smith Seymour Salmonid Society 604-288-0511 manager@seymoursalmon.com
Mountain Goat Census: Pemberton Icefield/Ryan River	2-588	We will conduct a census of mountain goats ( <i>Oreamnos americanus</i> ) in those portions of MU 2-6 and 2-11 that have yet to be completed. This project will generate a population estimate for these areas that will be used to inform First Nations, stakeholders and management decisions.	\$32,100.00	John Kelly MFLNRO Reg 2 604-885-8906 John.Kelly@gov.bc.ca
Windebank	2-605	This Land Stewardship Grant will support the restoration of riparian habitat along Windebank Creek, including invasive removal, native planting and improving spawning habitat. Funding amount is over three year term.	\$38,000.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@fraservalleyconservancy.ca
Gordon's Brook Shallow Marsh Restoration: Implementation and Monitoring	2-608	Hydrologic and biological restoration and monitoring of a shallow marsh in the Lower Mainland of BC to increase general wildlife biodiversity, to provide outdoor education, stewardship and research opportunities, and to increase our knowledge of shallow marsh restoration techniques on drained and now fallow agricultural lands in the Fraser Valley.	\$52,228.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@fraservalleyconservancy.ca
Enhancing Habitat and Monitoring for Fish Species of Conservation Concern in the Alouette River	2-611	To ameliorate the impacts of the dam and dike system in the Alouette River, we will integrate wetland with off-channel habitat restoration for priority salmonids. To evaluate restoration effectiveness, we will monitor responses of aquatic invertebrates and fish, while contributing to regional priorities for the SARA-listed Salish sucker and Nooksack dace.	\$54,000.00	Kelly Squires Katzie First Nation 604.460.8837 squireskellya@gmail.com
Whistler Non-Lethal Bear Management Project	2-613	Research into bear behavioural response to aversive conditioning, using black bears as a model species, for applications to other species, particularly in declining populations	\$4,990.00	Lori Homstol Wind River Consulting, Ltd. (604) 935-2103

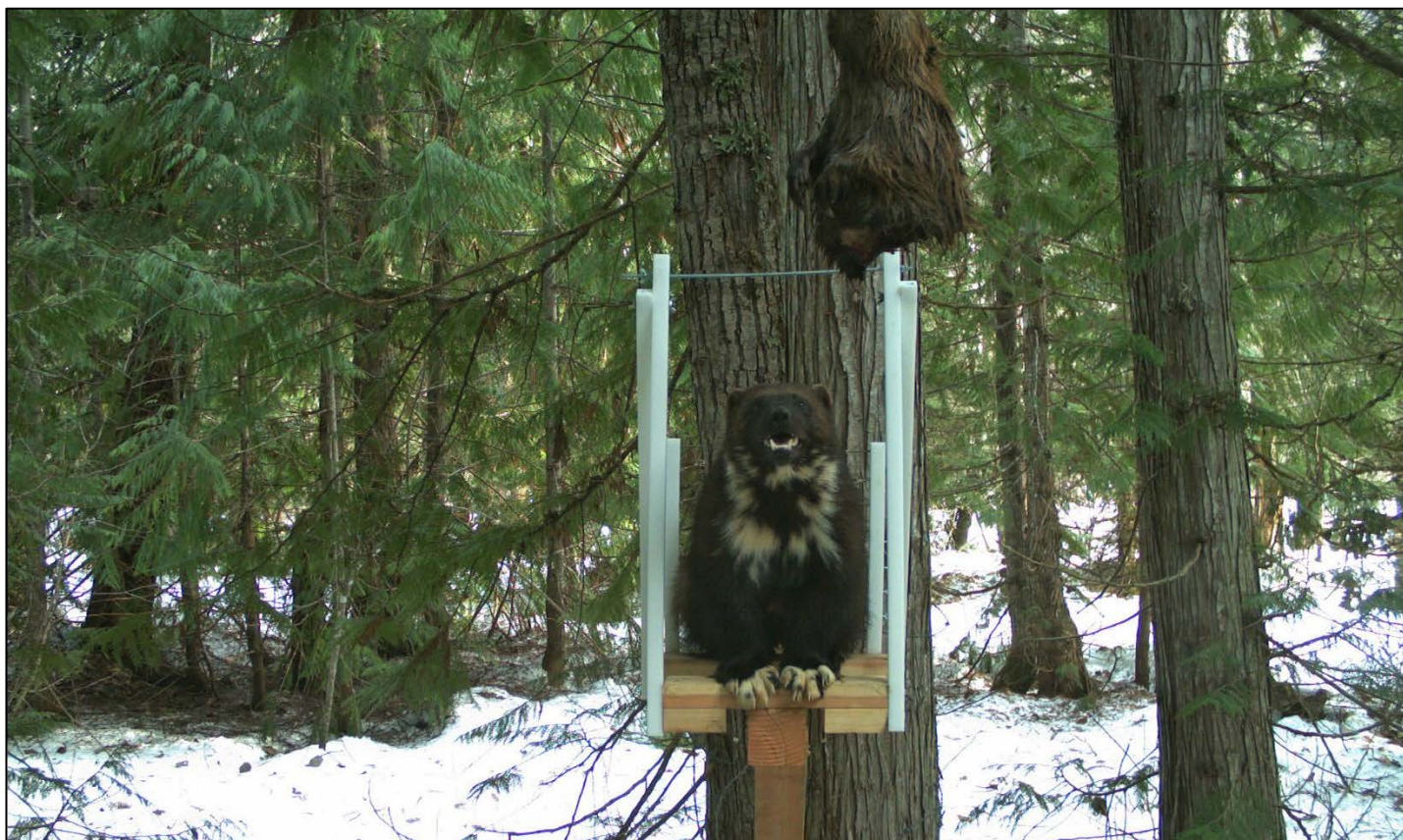




				<a href="mailto:l.homstol@windriverbearinstitute.org">l.homstol@windriverbearinstitute.org</a>
Lower Fraser First Nations White Sturgeon Monitoring Project	2-614	This project has two purposes. The first purpose is for LFFA biologist to train Lower Fraser First Nations fishers and Aboriginal fisheries monitors to collect information from Passive Integrated Transponder (PIT)-tags in white sturgeon that are captured during Food, Social, and Ceremonial and Economic Opportunity salmon fisheries. A second purpose is to raise awareness about the need to report encounters with sturgeon Aboriginal fisheries monitors. This will take place through outreach activities, as well as the use of PIT-tag readers by First Nations fishers to participate in the LFFA monitoring program to increase First Nations participation. Project results will provide important insight into Fraser River White Sturgeon and the tagging information from FSC and EO fisheries will supplement the current data collection about recreational fishery encounters.	\$40,395.00	Janson Wong Lower Fraser Fisheries Alliance 6048524040 <a href="mailto:janson.wong@lffa.ca">janson.wong@lffa.ca</a>
Lower Fraser River Guardian Program	2-615	Development and implementation of a River Guardian Program with emphasis on White Sturgeon and other freshwater migratory fish stocks on the Lower Fraser. The program would facilitate improved public awareness associated with issues and concerns related to the conservation and management of White Sturgeon on the Lower Fraser.	\$55,000.00	Greg Andrusak MFLNRO HQS 250 953-4763 <a href="mailto:greg.andrusak@gov.bc.ca">greg.andrusak@gov.bc.ca</a>
Improving Wildlife Habitat in Logged and Fire-Damaged Coastal Forests	2-618	We will increase the quantity and quality of habitat for wetland-dependent wildlife on the Sunshine Coast by working with logging contractors and tenure holders to conserve wetlands during forestry operations, and to restore, enhance, and create wetlands in recently logged and fire-damaged forests.	\$15,000.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 <a href="mailto:mjevelyn@gmail.com">mjevelyn@gmail.com</a>
Sustaining Mesocarnivore Populations and Habitat in the Lower Mainland Watersheds	2-619	This project will use non-invasive survey techniques to evaluate the distribution, habitat use, and human-caused threats of mesocarnivore populations in the Lower Mainland. This information is necessary to help trappers and land managers maintain sustainable populations of these species.	\$31,581.00	Richard Weir Ministry of Environment 250 356 8186 <a href="mailto:Rich.Weir@gov.bc.ca">Rich.Weir@gov.bc.ca</a>
Wolverine Movements, Home Range and Habitat Use in a Human Dominated Landscape	2-622	We propose to examine home ranges, seasonal movements, and habitat use of wolverines in the South Coast. While inventories have been completed, further information is needed on movements, home range size, and habitat use in relation to human activities in order to better manage wolverines in a multiple use landscape.	\$48,954.00	Cliff Nietvelt MFLNRO 604-702-5740 <a href="mailto:Cliff.Nietvelt@gov.bc.ca">Cliff.Nietvelt@gov.bc.ca</a>



Coquihalla River Summer Steelhead Migration Rehabilitation Project	2-625	This project will modify a large boulder displaced by the collapse of a remnant railway bridge abutment located in Coquihalla Canyon Provincial Park in Hope BC. The subsequent slide has severely impacted summer steelhead passage on the Coquihalla River, excluding the majority of the population from 20 km of critical historic habitat. Boulder modification will re-establish summer steelhead passage into the upper Coquihalla River.	\$30,000.00	Kerry Baird British Columbia Conservation Foundation 604-576-1433 kbaird@bccf.com
Increasing Natural Production of Anadromous Cutthroat Trout in Little Campbell River	2-629	The ultimate goal of this initiative is to increase production of the anadromous cutthroat trout (and steelhead) in Little Campbell River via a collaborative stewardship initiative to restore key spawning and rearing habitat in the system. Seed funding is required for collation of existing data and completion of a multi-year HCTF proposal to develop and implement a restoration strategy.	\$5,000.00	Christy Juteau A Rocha Canada - Christians in Conservation 604-542-9022 christy.juteau@arocha.ca
Squamish River Training Dyke Fish Passage Upgrade	2-630	Replacement of culverts at key locations along Training Dyke to reconnect the Squamish River with the Central Estuary channel and restore tidal flows.	\$5000.00	Edith B. Tobe Squamish River Watershed Society 604-898-9171 srws@shaw.ca



*Project 2-622 builds on previous HCTF-funded projects inventorying wolverines on the South Coast.*



## Approved Projects in the Thompson Nicola Region

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Quality Waters Strategy - Thompson River Guardian Program	3-273	River guardians will patrol and survey during times of fishery closure and will patrol and survey the steelhead sport fishery in the event of an opening to assist with fishery management and compliance.	\$24,860.00	Robert G. Bison MFLNRO 250-371-6244 Robert.Bison@gov.bc.ca
Monitoring the Endangered Stein/Nahatlatch & South Chilcotin Grizzly Bear Populations	3-283	This project will continue to monitor reproduction and survival of previously radio collared grizzly bears in the Stein/Nahatlatch and southern part of the South Chilcotin GBPU.	\$ 13,174.00	Michelle McLellan 250 999 9161 Michelle.McLellan@vuw.ac.nz
Fisher Artificial Reproductive Den Box Study	3-345	Fisher are the largest obligate cavity user and use cavities in large diameter den trees for reproductive dens. Suitable trees for reproductive dens are rare in the landscape and impacts due to MPB and fire in many areas of the province have further reduced the availability of this habitat feature. This project will demonstrate the extent that artificial den boxes can be used to augment fisher reproductive denning habitat in areas where natural den trees have been reduced.	\$39,900.00	Larry R. Davis Davis Environmental Ltd 250-267-3090 rldavis@shaw.ca
Assessment of Sustainable Fishing Rates for Nicola Lake Burbot to Evaluate Sports-fishing	3-347	Historically, Nicola Lake burbot provided a popular recreational fishery, but harvest opportunities ceased in the 1990s due to concerns of overexploitation. The burbot fishery is currently regulated as "burbot release" for recreational angling. Partnering with First Nations, we will estimate the sustainable fishing rate for Nicola Lake burbot stock using the observed population age structure and the biology and vulnerability of the fish. This will be compared to the current fishing rates for an existing First Nations food fishery by tagging fish and creeling the fishery to recover tags and evaluate additional sport-fishing opportunities.	\$51,642.00	Andy Morris MFLNRO 250-371-6325 andy.morris@gov.bc.ca
Highland Valley Enhancement Fund Coordinator	3-355	Funding for the HVEF committee coordination.	\$10,000.00	Jen Bellhouse British Columbia Conservation Foundation 250 828-2551 jbellhouse@bccf.com
Thompson Burn Program	3-358	The intent of this project will be to reintroduce fire into the low-mid elevation dry forest and grassland ecosystems to restore and improve forage nutrition and availability primarily for mule deer and bighorn sheep.	\$101,200.00	Gerad Hales MFLNRO Reg 3 250-371-4457 Gerad.Hales@gov.bc.ca
Stock Density Reduction	3-361	This project involves the construction of recruitment barrier(s) on previously identified	\$30,330.00	Andrew Klassen MFLNRO





Project – Thompson Region		candidate lakes, which have high recruitment rates of naturalized rainbow trout. The goal of the initiative is to reduce trout recruitment rates to a level that will allow the trout size and condition to increase, creating attractive angling opportunities.		250-371-6237 andrew.klassen@gov.bc.ca
Thompson Region Bighorn Sheep Collaring Project	3-369	This project will collar 30-33 bighorn sheep rams from different herds in the Thompson region to better quantify connectivity of Thompson bighorn sheep herds, as well as clarify core home range use, summer and winter range migration timing and movement rates and ram foray patterns. The project will also develop a herd health baseline dataset from biological samples from individuals in each herd.	\$25,200.00	Gerad Hales MFLNRO 250-371-4457 Gerad.Hales@gov.bc.ca
SABNES Wetland Complexing	3-384	This project is creating several hummocks with enhanced habitat features to further the bio-physical diversity of Nature Trust Lands in Salmon Arm Bay. In year 2, we will monitor and replace trees/shrubs that did not survive, and hire student interpreters to lead educational tours to explain hummocks during late spring, summer.	\$6,458.00	Janet Aitken Salmon Arm Bay Nature Enhancement Society 2508321019 <a href="mailto:janetaiken1@gmail.com">janetaiken1@gmail.com</a>
Badger Lake Water Conservation Project	3-391	Securing conservation water storage license on Badger Lake to maintain and enhance the fishery.	\$60,000.00	Stephen Maricle MFLNRO 250-371-6253 <a href="mailto:Steve.Maricle@gov.bc.ca">Steve.Maricle@gov.bc.ca</a>
Windy Lake Rotenone Treatment	3-392	Yellow perch have recently been discovered in Windy Lake, which is directly connected to the upper Nicola River. This seed population of fish needs to be quickly remove by rotenone treatment to ensure that they do not become established downstream.	\$95,000.00	Andrew Klassen MFLNRO 250-371-6237 <a href="mailto:16ndrew.klassen@gov.bc.ca">16ndrew.klassen@gov.bc.ca</a>
Shiner Density Reduction in Paul Lake	3-397	This project will reduce the reidside shiner population in lake decreasing competition and therefore increasing the size of the naturalized rainbow trout.	\$8,960.00	Danielle Cross British Columbia Conservation Foundation 250 828-2551 <a href="mailto:dcross@bccf.com">dcross@bccf.com</a>



*The Salmon Arm Bay Nature Enhancement Society Wetland Complexing project (3-384) is receiving its second year of funding from HCTF. In year 1, a SPIDEX excavator (left) created four hummocks that were planted with indigenous trees and shrubs to shade out the invasive grasses and create a more diverse habitat for birds, reptiles, and mammals.*



## Approved Projects in the Kootenays

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Gerrard Rainbow Trout Critical Monitoring	4-248	This project monitors the conservation status of Gerrard rainbow trout by estimating escapement through spawner counts, protecting spawners, estimating harvests of these fish in the Kootenay Lake sport fishery, and monitoring critical spawning habitat parameters.	\$34,000.00	Matt Neufeld MFLNRO 250 354 6353 matt.neufeld@gov.bc.ca
Kootenay Conservation Program (KCP)	4-345	The Kootenay Conservation Program (KCP) is a highly successful partnership program that focuses efforts on securement and stewardship of high value conservation lands coupled with building the capacity of our 80+ partner organizations.	\$29,700.00	Juliet Craig Nature Trust of BC 250-352-2260 manager@kootenayconservation.ca
South Rockies Grizzly Bear Inventory	4-410	This project will monitor grizzly bear populations in MUs 4-01, 4-02 and 4-23. High human-caused mortality of grizzly bears paired with substantial resource extraction in this area necessitates accurate population monitoring. Analysis will inform annual management decisions and focus on identifying factors that are limiting grizzly bear populations and landscape features that directly influence bear abundance and movements.	\$65,000.00	Garth Mowat MFLNRO 250-354-6142 garth.mowat@gov.bc.ca
Kootenay Region River Guardian Program	4-444	This project ensures a River Guardian presence in eight Kootenay Region classified watersheds with objective to maintain or improve the quality of angling in these systems and protect native sport fish populations. River Guardians provide a compliance presence, educate public, anglers and other stakeholders, and collect angler survey data and biological/inventory data.	\$84,500.00	Kevin Heidt MFLNRO 250-489-8556 Kevin.Heidt@gov.bc.ca
Boundary Restoration and Enhancement Program	4-461	This project will improve habitat quality, resiliency and forage availability for ungulates and other native species by restoring or enhancing degraded habitats in a range of ecosystems across the Boundary. This project will build community stewardship and technical capacity through the use of partnerships and local contractors.	\$94,775.00	Lisa Tedesco MFLNRO Reg 4 250-354-6352 lisa.m.tedesco@gov.bc.ca
Columbia River Northern Pike Removal - Risk and Feasibility of Control	4-493	This project will assess the potential impacts of invasive Northern pike populations in the Columbia and Pend d'Oreille Rivers, and determine the feasibility of a long term control program. The spread of NP into these rivers likely pose significant risks to native species, important sport fisheries, local ecosystems and Species at Risk recovery work.	\$20,453.00	Brian Heise Thompson Rivers University 250-371-5530 bheise@tru.ca



Kootenay Mule Deer Survival Monitoring	4-510	This project will assess factors limiting mule deer population growth in 4 study areas in the Kootenay Region by monitoring adult female survival, cause of death and fawn recruitment.	\$40,000.00	Patrick Stent MFLNRO 250-489-8578 Patrick.Stent@gov.bc.ca
Improving Mountain Caribou Calf Survival through Maternal Penning	4-512	Mountain caribou calf survival remains too low to support population recovery. This project will determine if maternal penning can improve the survival of calves and adults in the Columbia Mountains Ecosystem by protecting them in a secure enclosure for four months until calves are larger and more capable of avoiding predation. If successful, this tool will would help to reduce the rate of decline and increase the size of the Columbia North caribou subpopulation.	\$30,000.00	Mandy Kellner Revelstoke Caribou Rearing in the Wild 250-837-0820 rcrwsociety@gmail.com
West Kootenay Mule Deer Habitat Restoration	4-535	This project will identify important mule deer habitats in the West Kootenay and plan ecosystem restoration activities to improve quality of habitat.	\$24,950.00	Patrick Stent MFLNRO Reg 4 250-489-8578 Patrick.Stent@gov.bc.ca
Determination of Gerrard Rainbow Trout Stock Productivity at Low Abundance	4-539	Obtain critical information on the stock productivity parameter for Gerrard Rainbow Trout at low abundance. The information is vital in defining important biological reference points for conservation and management of this unique ecotype on Kootenay Lake. Data will provide important information on the maximum reproductive rate of this stock which can only be obtained under low stock abundance.	\$52,994.00	Greg Andrusak MFLNRO HQS 250-953-4763 greg.andrusak@gov.bc.ca
Bull River Bighorn Sheep: Herd Health and Movement Dynamics	4-546	This project will build on the first year (2016-17) by sampling and collaring more Bull River bighorn sheep to ensure a minimum of 20 functioning GPS collars are deployed on a variety of sex and age classes with emphasis on older ewes and sub-adult rams. During year two of this project we will also increase the number of Elk Valley, Canal Flats, Radium, and Wigwam bighorn sheep herd health samples by immobilizing and sampling 20 sheep from across these herds and sampling harvested animals and other mortalities. We also hope to expand the scope of the project to include a range assessment component on the Bull River herd winter range, which would enable comparison to 2007 range assessments.	\$31,850.00	Jeremy Ayotte Phyla Biological Consulting 250-804-3513 jeremy.ayotte@gmail.com
Elk Valley Heritage Conservation Area	4-548	This Land Stewardship Grant will support land management planning, public access management, wetland restoration and invasive plant removal. Funding amount is over three year term.	\$30,476.00	Chris Perrin The Nature Conservancy of Canada 250-479-3191 chris.perrin@natureconservancy.ca



Dutch Creek Hoodoos	4-549	This Land Stewardship Grant will support land management activities including management planning, trail decommissioning, public access management, and educational signage. Funding amount is over three year term.	\$16,000.00	Chris Perrin The Nature Conservancy of Canada 250 479-3191 chris.perrin@natureconservancy.ca
Functional drivers of density for Selkirk and Purcell grizzly bears	4-554	This project will use Spatially Explicit Capture Recapture integrated with explanatory covariates to estimate and understand the causes of density variation in the threatened South Selkirk and Purcell populations	\$25,330.00	Michael Proctor Birchdale Ecological Ltd. 250 363-8072 mproctor@netidea.com
Determination of Bull Trout Stock Productivity at Low Abundance	4-555	This project will obtain critical information on the stock productivity parameter for Bull Trout at low abundance. The information is vital in defining important biological reference points for conservation and management for this species on Kootenay Lake.	\$54,000.00	Greg Andrusak MFLNRO 250 953-4763 greg.andrusak@gov.bc.ca
Invasive plant management on bighorn sheep winter ranges	4-556	This proposed project involves a comprehensive and collaborative approach to managing invasive plants on critical bighorn sheep winter ranges.	\$55,100.00	Irene E. Teske Ministry of Environment 250-489-8551 Irene.Teske@gov.bc.ca
Columbia Wetlands Strategic Framework	4-561	This project will provide Columbia Wetland Stewardship Partners (CWSP) with a strategic framework to help implement the conservation and stewardship goals and objectives in official community plans, provincial and federal management plans.	\$40,000.00	Suzanne Bayley Columbia Wetlands Stewardship Partners 250 346 3181 sbayley@ualberta.ca
Predicting grizzly bear foods – Huckleberries - across the Kootenays	4-562	This project will expand our previous project that accurately predicted grizzly bears' most important regional food resource – huckleberries - across most of the Kootenay region.	\$26,820.00	Michael Proctor Birchdale Ecological Ltd. 250 363-8072 mproctor@netidea.com
Quantifying Rates and Mechanisms of Grizzly Bear Mortality in the Elk Valley	4-563	This project will use radiotelemetry to identify the rates and causes of bear mortality (reported and unreported) in a population of bears facing one of the highest human-caused mortality rates in the province. Currently, the degree of under-reporting is unknown and suspected to be high, and these uncertainties compromise science-based management of grizzly bears locally and provincially. This project builds on a large body of research and previously collected data to provide recommendations for pressing management concerns and to engage the community in grizzly bear conservation.	\$25,000.00	Clayton Lamb MFLNRO Reg 4 ctlamb@ualberta.ca



Wolverine Abundance and Trapping Harvest Sustainability in the Kootenay Region	4-565	Preliminary research suggests that wolverine mortality from trapper harvest may be at unsustainable levels in southeastern British Columbia (BC). Our project will use spatial capture-recapture models to estimate wolverine abundance using multi-year wolverine genetic data collected non-invasively in the Columbia Basin of BC. Harvest rate will be calculated for the Kootenay Boundary population units using these densities and the recorded kill. These rates will be compared to published estimates of sustainable harvest rates.	\$20,853.00	Garth Mowat Ministry of Environment 250-354-6142 garth.mowat@gov.bc.ca
Management plan for the Restoration and Rehabilitation of Joseph Creek	4-566	This project will establish a management vision and plan for Joseph Creek from stem to stern that, will restore and rehabilitate the creek while considering community, cultural, ecological, educational, economic, environmental, historic, infrastructure and recreational values.	\$5,000.00	Todd Hebert Blue Lake Forest Education Society 250-426-3676 toddhebert@bluelakecentre.com
Enhancing Wolf Monitoring in the Kootenay Region	4-568	Work with key stakeholders, First Nations, and contract and provincial biologists to assess cost-effective ways of surveying wolves and compile historical data on wolf population trends. The research will involve a literature review of existing and emerging methods to survey wolves, an assessment of cost-effectiveness for these methods, and stakeholder engagement to develop new citizen-science tools to monitor wolf distribution, abundance, and trends.	\$5,000.00	Adam Ford University of British Columbia Okanagan 250-807-9773 atford@gmail.com
Wetlands Institute 2017: East Kootenays	3-272	The Wetlands Institute workshop provides hands-on training to individuals committed to wetland stewardship projects in BC. It involves high quality training and 2 hands-on wetland restoration projects. It aims to support regional initiatives. Following the Institute, participants are offered ongoing support to successfully complete their projects.	\$45,700.00	Neil Fletcher BC Wildlife Federation 1-888-881-2293 wetlands@bcwf.bc.ca



*The Bull River Bighorn Herd Health and Movement Dynamics Project (4-546) is using GPS collars and health samples from rams and ewes of this herd to determine whether these bighorns are carrying (or have been exposed to) the die-off causing pathogen carried by some domestic sheep. It will also provide important detailed information on winter range use, and the timing and location of migration routes between summer and winter ranges.*





## Approved Projects in the Cariboo

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Mid-Fraser River White Sturgeon Radio Telemetry Program	5-196	This is year three of a five year study focussed on filling knowledge gaps of sturgeon habitat use and behaviour in the mid-Fraser River. Specifically, identify spawning locations and improve understanding of stock structure in northern sections of the mid-Fraser.	\$37,000.00	Lee Williston MFLNRO 250-398-4696 Lee.Williston@gov.bc.ca
Quality Waters Strategy: Dean River Guardian Program	5-239	The Dean River guardian program will collect the necessary creel information to administer the Dean River draw and implement the Dean River angling management plan.	\$84,355.00	Russell Bobrowski MFLNRO 250-398-4258 Russell.Bobrowski@gov.bc.ca
Quesnel Lake Exploitation Study	5-271	This is year five of a five year study to estimate the proportion of large rainbow trout, bull trout and lake trout caught in Quesnel Lake. Project results will provide management with science based data for revising regulations and harvest quotas for each species which may result in increased angler use on Quesnel Lake.	\$87,326.00	Lee Williston MFLNRO 250 398-4696 Lee.Williston@gov.bc.ca
Restoring Ungulate Habitat Through Clumpy Spacing	5-281	A clumpy-spacing trial was installed in 1990 to examine habitat enhancement for ungulates through a unique spacing regime of overstocked stands of juvenile trees. This project will evaluate whether clumping spacing enhanced habitat use by ungulates and regionally-important wildlife.	\$45,500.00	Douglas Ransome BC Institute of Technology 250-554-2561 Doug_Ransome@bcit.ca
High Lake Grassland and Open Forest Restoration Pilot	5-284	This three year project will remove tree encroachment from grasslands and ingrowth from Douglas-fir stands within mule deer winter range in Churn Creek Protected Area. It will evaluate and demonstrate a model for treating more extensive areas within the Protected Area.	\$2,930.00	Ordell Steen Friends of Churn Creek Protected Area Society 250-398-5017 oasteen@shaw.ca
Elkin Creek Nature Preserve	5-288	This Land Stewardship Grant will support land management activities including fencing to protect sensitive areas, stewardship planning and boundary delineation. Funding amount is over three year term.	\$35,000.00	Wayne McCrory Valhalla Foundation for Ecology 250-358-7796 waynem@vws.org
Scout Island	5-289	This Land Stewardship Grant will support restoration activities including invasive species removal, planting of native species, and managing of over grazing by Canada Geese. Funding amount is over three year term.	\$36,300.00	Susan Hemphill Williams Lake Field Naturalists 250-398-8532 shemphill@xplornet.com
Chilcotin Steelhead Habitat	5-292	This project will deploy acoustic tags in Chilcotin River steelhead, in order to improve knowledge of habitat use during spawning migrations and to improve the accuracy and reliability of	\$48,300.00	Lee Williston MFLNRO 250-398-4696 Lee.Williston@gov.bc.ca



Utilization and Abundance		population estimates which provide the basis for conservation management of this stock.		
108 Mile Marshes Rebuild Construction and Chilco Ranch Rebuild Design	5-293	Ducks Unlimited Canada (DUC) will use HCTF funds to rebuild infrastructure that currently provides 73.6 hectares of wetland habitat at 108 Mile Ranch for the benefit of waterfowl and other wildlife and will also conduct preliminary work, including design, in preparation for future infrastructure upgrades at the 318-hectare Chilco Ranch wetland conservation project.	\$250,000.00	Dan Buffet Ducks Unlimited Canada 250-374-8307 d_buffett@ducks.ca
Ecology of Small Mammals in Post-Fire And Salvage-Logged Landscapes	5-295	Fires and post-fire salvage-logging have unknown but likely significant impacts on small mammals, which are often important prey species for forest carnivores. This project will quantify abundances and distribution of mice and voles, snowshoe hares, and red squirrels in response to these disturbances in a study area where we are conducting concurrent work on marten.	\$38,759.00	Karen Hodges University of British Columbia Okanagan 250-807-8763 karen.hodges@ubc.ca
Chilko Lake Bull Trout Movements and Exploitation	5-296	This project will track the movements of bull trout from Chilko Lake (via acoustic telemetry) to determine their residency and potential dispersal throughout the Chilcotin and nearby systems. Exploitation rates for bull trout will also be estimated via high-reward tags.	\$79,393.00	Scott G. Hinch University of British Columbia 604-822-9377 n.b.furey@gmail.com
Central Interior Lake Trout Exploitation Study	5-297	This study aims to assess lake trout mortality on six popular fisheries in British Columbia's Central Interior to evaluate opportunity for increased lake trout harvest with the desired outcome of improving angler participation and satisfaction through increased lake trout harvest opportunity and reduced competition or predation on kokanee and rainbow trout.	\$74,716.00	Russell Bobrowski MFLNRO 250-398-4258 Russell.Bobrowski@gov.bc.ca
Chilko River Grizzly Bear Project	5-298	DNA hair snagging and GPS radio collar study of grizzly bears utilising the Chilko River salmon run to further understand the extent of ecological and spatial influence the Chilko River salmon has on grizzly bears throughout the Chilcotin Region of BC.	\$44,000.00	Cedar Mueller Osa Ecological Consulting 403-678-0724 cedarm@shaw.ca
Blackwater River Riparian Restoration	5-299	This funding will initiate discussions amongst potential partners, experts, First Nations, and land owner to identify causes of riparian destruction and potential remedies for restoration. The result of these discussions will lead to an understanding of the scope of the issue and objectives of the full project proposal in the future.	\$5,000.00	Kelsey Campbell Upper Fraser Fisheries Conservation Alliance Kelseycampbell@shawcable.com





## Approved Projects in the Skeena Region

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Skeena Weirs and Steelhead Stock Assessment	6-97	This project will provide wild Skeena Watershed steelhead abundance data at three index sites: the upper Sustut River weir, the Kitwanga River Didson sonar and the Kloiya River resistivity counter to enumerate an upper Skeena, early run-timing, a mid-Skeena summer and a coastal winter run steelhead population, respectively.	\$72,500.00	Mark Beere MFLNRO 250-847-7297 Mark.Beere@gov.bc.ca
The Response of Caribou Terrestrial Forage Lichens to MPB, Forest Harvesting and Fire	6-216	This project assesses the effects of MPB, forest harvesting and fire on caribou terrestrial forage lichens on the Tweedsmuir-Entiako caribou winter range by re-measuring permanent sample plots that were established in 2001 and re-measured in 2003, 2005, 2007 and 2011	\$16,800.00	Deborah Cichowski Bulkley Valley Centre for Natural Resources Research & Management 250-847-2827 caribou@bulkley.net
Restoring Whitebark Pine Ecosystems to Enhance Subalpine Bear Habitat	6-227	This project is restoring endangered whitebark pine ecosystems with high habitat value for bears in the southern Skeena Region. In 2017-18 we will plant 6500 rust-free seedlings in two BC Parks and a Community Forest, scope out the 2018 cone crop, stratify & sow 20,000 seeds, and continue capacity-building and outreach.	\$7,000.00	Sybille Haeussler Bulkley Valley Centre for Natural Resources Research & Management 250-847-2728 Sybille.Haeussler@unbc.ca
Population Structure and Migration of Lake Char in Yukon River Headwater Lakes and Rivers	6-242	A sonic receiver array is being maintained in Atlin Lake and 56 lake char have received acoustic tags as a component of a much larger sonic tagging and genetic stock ID project directed by Environment Yukon on Atlin, Tagish, Bennett and Marsh lakes and connecting rivers. This will clarify lake char migrations between these waters so that harvest estimates can be accurately assigned to design regulations for sustainable fisheries.	\$ 5,500.00	Joe De Gisi MFLNRO 250-847-7288 joe.degisi@gov.bc.ca
Teslin Lake Lake Trout Spawning Site Identification & Mixed Stock Genetics	6-246	This is Year 2 of an applied research project to identify lake trout spawning sites on Teslin Lake and conduct a mixed stock genetics analysis to determine the presence of lake trout sub-populations in the lake and how the recreational/subsistence harvest is distributed amongst the various sub-populations.	\$10,000.00	Sandy Smarch Teslin Renewable Resources Council 867-390-2323 teslinrrc@northwestel.net
BC Moose Tracker App: Citizen science tracking moose populations in BC.	6-247	Citizen science will be used to increase the knowledge of moose populations BC. BC Moose Tracker is a mobile device application that can be used by hunters and non-hunters to record their observations of moose. These observations will help biologists understand population trends between surveys and identify priority areas to survey.	\$5,000.00	Conrad Thiessen MFLNRO 250-847-7299 conrad.thiessen@gov.bc.ca



Determining Population Management Unit Boundaries for Mountain Goats in Skeena Region	6-252	We will monitor movements, home ranges, habitat selection and genetic relatedness of mountain goats on two adjacent mountain complexes northeast of Smithers, BC to determine biologically meaningful population management unit boundaries for these populations. The results of this study can help to inform biologically based PMUs in the remainder of the Skeena Region.	\$92,600.00	Krystal Dixon MFLNRO 250-847-7274 krystal.dixon@gov.bc.ca
Lakelse River Guardian Project	6-255	This application proposes to conduct a River Guardian project on the Lakelse River from June-December 2017 and from March-May 2018. The intent of this work is to monitor and assess angling regulations and fishery characteristics on this classified water. This project is the next step for the Skeena River guardian program.	\$15,000.00	Kenji Miyazaki MFLNRO Kenji.Miyazaki@gov.bc.ca
Investigating Central Coast Grizzly Bear Island Colonization and Population Structure	6-257	This seed proposal will use genetic methods to characterize the source, mechanism, extent and motivation for recent island colonization by grizzly bears along the central coast of BC. To inform this investigation, this study will also describe coastal population structure in the central coast.	\$5,000.00	Lauren Henson University of Victoria hensonlh@gmail.com



HCTF Project 6-227 is working to restore endangered whitebark pine ecosystems in the South Skeena region. Whitebark pine ecosystems are of high value to grizzly bear and birds such as Clark's Nutcracker.



## Approved Projects in the Omineca/Peace Region

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
5-Year Peace Region Mountain Goat Population Assessment	7-415	Goat harvest is being managed conservatively in the Peace Region due to a lack of baseline population data, resulting in minimal harvest opportunities. This 5-year assessment will determine population estimates and define Population Management Units for mountain goats, so that a sustainable harvest rate can be applied for each PMU, resulting in an enhanced ability to manage mountain goats and increased hunting opportunities in the Peace Region.	\$86,000.00	Mike Bridger MFLNRO 250-787-3294 Michael.Bridger@gov.bc.ca
Enhanced Monitoring of the Moberly Lake Trout	7-416	FLNRO and Freshwater Fisheries are attempting to recover a population of lake trout in Moberly Lake, northeast B.C. This project rigorously evaluates the effectiveness of the recovery efforts and the response of the larger fish community in this lake.	\$24,370.00	Kristen Peck MFLNRO 250-787-3407 Kristen.Peck@gov.bc.ca
Life History Patterns and Demographics of Muskwa and Prophet River Arctic Grayling	7-431	This project will identify movements between nursery streams and adult rearing streams for Arctic grayling in the Muskwa and Prophet rivers using otolith microchemistry and genetic analyses. Whole fish (meristics data) will also be collected for possible future analysis.	\$27,622.00	Michael Stamford Stamford Environmental 604-886-4752 stamford@telus.net
Enhancing caribou survival within the Klinse-Za/Scott herds	7-436	This is year 4 of 5 planned years during which maternal penning will be used as one of several complementary emergency measures implemented to avert extirpation, and eventually recover, the population of caribou known as the Klinse-Za/Scott herds located in the south Peace region of northern British Columbia.	\$70,461.00	Scott McNay Wildlife Infometrics Inc. 250-997-5700 scott.mcnay@wildlifeinfometrics.com
Mule Deer Monitoring in the Prince George area	7-445	Mule deer provide significant hunting opportunities in central BC. However, local observations from hunters have consistently reported declining mule deer numbers in the Prince George area and there is no inventory or trend monitoring to validate these concerns. The Spruce City Wildlife Association is seeking funds to help establish a long-term monitoring program for mule deer within the wildlife management units surrounding Prince George. With support from Ministry of Forests, Lands, and Natural Resource Operations (FLNRO), bi-annual ground based surveys will be conducted by local hunters/volunteers to document fawn recruitment, sex ratios and buck age classes that will provide key information on population vital	\$3,000.00	Chris Shultz Spruce City Wildlife Association chrislizann@yahoo.ca





		rates and trend; such information will help biologists understand how mule deer demographics change seasonally and over time and will facilitate mule deer management.		
Pine River Arctic Grayling and Bull Trout Spawning	7-446	This project will identify critical spawning habitats of Arctic grayling and bull trout in the upper portion of the Pine River watershed near Chetwynd, BC. Twenty-four Arctic grayling were implanted with radio transmitters in summer 2016 (Year 1) and their movements during the spring spawning window in 2017 (Year 2) will be followed to determine potential spawning locations in the Pine River watershed.	\$34,751.00	Ted Euchner Diversified Environmental Service 250-787-9101 teuchner@shaw.ca
Effects of Habitat Alteration on Caribou Forage Lichens	7-449	This project assesses the effects of MPB, logging and prescribed fire on caribou terrestrial forage lichens on the Wolverine and Tweedsmuir-Entiako caribou winter ranges. Previously established permanently marked plots at 3 sites will be re-measured in 2017 and will be combined with data collected at 5 sites in 2016 for analysis.	\$48,836.00	Deborah Cichowski Wildlife Infometrics Inc. 250-847-2827 caribou@bulkley.net
Moberly Grizzly Bear Wildlife Habitat Areas: Ecosystem Mapping Project	7-450	This project will map and identify important grizzly bear habitats in the Moberly area at the fine scale to inform the designation of Wildlife Habitat Areas, which are a measure of habitat protection under the Forest and Range Practices Act in the Province of B.C.	\$75,000.00	Kristen Peck MFLNRO 250-787-3407 Kristen.Peck@gov.bc.ca
Monitoring Plan for the Mountain Goat ( <i>Oreamnos americanus</i> ) in the Omineca Region	7-451	The most recent status assessment in BC (2015) up-listed mountain goats from Yellow/Secure to Blue/Special Concern to reflect the sensitivity and current vulnerability of goat populations to both natural events or human activities within their range. The current population status for mountain goat populations in the Omineca region is unknown. This 5 year population assessment will help determine population estimates for mountain goats in areas where harvest densities are high to ensure that current hunting strategies are sustainable.	\$31,000.00	Michael Klaczek MFLNRO 250-614-7456 michael.klaczek@gov.bc.ca
BC Boreal Caribou, Wolf and Moose Monitoring	7-456	This project in northeastern BC represents the fifth year of a monitoring study of boreal caribou and their predators (wolves), and the third year of monitoring of moose, the primary prey of wolves. Continued monitoring of collared caribou has significant value, with project results directly relevant to the success of implementing recovery measures.	\$75,000.00	Megan Watters MFLNRO 250-787-3507 Megan.Watters@gov.bc.ca
Vegetation Dynamics on Terrestrial	7-466	This project focuses on re-measuring permanently marked plots on terrestrial lichen sites on the Tweedsmuir-Entiako caribou winter	\$14,800.00	Deborah Cichowski Caribou Ecological Consulting



Lichen Sites 11-13 Years Following Fire		range that were burned in 2004 (6 plots) and 2006 (15 plots).		250-847-2827 caribou@bulkley.net
Assessment of Habitat Alteration on Caribou Ranges in Northern BC	7-467	The project will assess the current level of habitat alteration on caribou ranges in northern BC using available GIS datasets, and identify information gaps and issues.	\$14,440.00	Deborah Cichowski Caribou Ecological Consulting 250-847-2827 caribou@bulkley.net
Forage Response to Prescribed Fire in the Northern Rockies	7-468	This project will assess the long-term influence of prescribed fire of forage characteristics for Stone's sheep and elk. It will make recommendations to improve the current prescribed burning program relative to effective timing by contrasting the plant and animal immediate responses (1 year after burning) to longer-term responses (7 years post burn).	\$69,778.00	Krista Sittler Wildlife Infometrics Inc. 250-997-5700 krista.sittler@wildlifeinfometrics.com
Wolf predation risk to moose in north-central BC	7-473	This project will investigate seasonal wolf predation risk to moose in two of the provincial moose research project study sites. We will track kill sites of 5 wolf packs in each site by deploying satellite collars and checking location clusters for evidence of prey type killed while also determining space use parameters and resource selection.	\$90,090.00	Morgan Anderson MFLNRO 250-614-7400 Morgan.Anderson@gov.bc.ca
Testing Approaches to Restore Habitat For Caribou	7-478	This project will restore caribou habitat by mitigating historic linear features thus providing long term protection for the Klinse-Za population (Moberly and Scott East Herds) and reducing the need for the current emergency maternal penning and predator control strategies which are currently preventing extirpation.	\$5,000.00	Brian Pate Wildlife Infometrics Inc. 250-997-5700 brian.pate@wildlifeinfometrics.com
Stellako River Spring Closure Evaluations	7-481	This is a two year study to evaluate whether the current opening can be expanded to increase angling opportunities without having an impact on spawning rainbow trout.	\$18,700.00	Ray Pillipow MFLNRO 250-565-6135 Ray.Pillipow@gov.bc.ca
Stellako River Creel	7-482	This is a complimentary fixed point/roving creel on the Stellako River during 2017, updating angler use/preferences to provide management information requirements on this high quality rainbow fishery.	\$37,295.00	Ray Pillipow MFLNRO 250-565-6135 Ray.Pillipow@gov.bc.ca
Fish and Wildlife Habitat Enhancement in the Omineca Region	7-485	This collaborative project aims to identify areas for potential habitat enhancement in designated Wildlife Habitat Areas and Fisheries Sensitive Watersheds throughout the Omineca Region. SERN will identify specific sites and then submit HCTF proposals to develop prescriptions and implemented treat treatments where warranted.	\$5,000.00	John DeGagne Society for Ecosystem Restoration in North Central BC 250-567-6316 john.degagne@gov.bc.ca



## Approved Projects in the Okanagan

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Promoting Voluntary Habitat Stewardship in the Okanagan and Similkameen Valleys	8-90	This project continues to build on the success of the past twenty years of stewardship in the Okanagan and Similkameen valleys, supporting land stewardship, conservation and enhancement activities on private land and within communities throughout the RDOS, RDCO and RDNO.	\$55,000.00	Alyson Skinner Okanagan Similkameen Stewardship Society 250-492-0173 alysonskinner@gmail.com
MCRI Project Coordinator	8-320	This project will support a Project Coordinator to facilitate a multi-year, multi-stakeholder undertaking (MCRI) to address the declining kokanee populations and habitat degradation concerns in Mission Creek. Activities contained within this project will help recover Okanagan Lake kokanee stocks and improve the quality and economic value of the recreational fishery.	\$19,976.00	Tara White MFLNRO 250-490-2287 tara.white@gov.bc.ca
South Okanagan Similkameen Conservation Program (SOSCP) Habitat Conservation Delivery	8-349	This project will establish fish and wildlife habitat conservation and protection measures through a collaborative partnership model. Focus is on coordinating and implementing of Keeping Nature in Our Future: A Biodiversity Conservation Strategy for the South Okanagan Similkameen, local and regional government environmental planning initiatives and leveraging of resources within the South Okanagan Similkameen Region.	\$28,500.00	Bryn White Regional District of Okanagan Similkameen (on behalf of SOSCP) 250-490-8225 bryn.white@gov.bc.ca
Determining the Value of Post-Fire Landscapes for American Marten	8-400	American marten are important furbearers in BC, but strategies to facilitate marten recovery post-fire have not been established. Our proposal addresses marten population and behavioural responses to fire and post-fire salvage logging to identify post-fire management decisions most likely to meet management goals.	\$42,940.00	Karen Hodges University of British Columbia Okanagan 250-807-8763 karen.hodges@ubc.ca
Ellis Creek Fish Passage	8-405	The project involves redesigning the sediment basin at the mouth of Ellis Creek to create fish passage year round. This project will allow the Ministry to do their routine sediment extraction without disturbing fish passage or the newly created riparian area.	\$49,757.00	James Pepper Penticton Indian Band 250-493-0048 jpepper@syilx.org
Quintal Floodplain	8-414	This Land Stewardship Grant will support land management activities to establish healthy riparian zones alongside restored wetlands. Funding amount is over three year term.	\$45,000.00	Nichole Rae Ducks Unlimited Canada 250-374-8307 n_rae@ducks.ca
Penticton Creek	8-418	This goal of this project is to restore approx. 80 meters of lower Penticton Creek immediately	\$147,800.00	Ian Chapman City of Penticton



Restoration Initiative		upstream of the 2015 Showcase Project. Benefits include improvements to migration, rearing and spawning habitat for kokanee and rainbow trout, in addition to enhancing recreational, environmental, economic and social values for local communities.		250-490-2400 ian.chapman@penticton.ca
Efficacy of an Extended Release Formulation of Eprinomectin for the Treatment of Psoroptic Mange in Bighorn Sheep	8-419	Eighteen bighorn sheep that are naturally infested with <i>psoroptes Ovis</i> will be captured and housed locally in two 5 acre sheep enclosures for one year. A randomized, controlled, clinical trial will be performed to test the efficacy of an extended release formulation of eprinomectin for treating <i>psoroptes Ovis</i> infections.	\$6,000.00	Adam Hering University of Saskatchewan 250-896-7974 Adam.hering@usask.ca
Managing <i>Psoroptes ovis</i> in Okanagan Bighorn	8-422	This project aims to better understand the effects of Psoroptic mange on California bighorn population dynamics and mitigate transmission risk to uninfected populations in the Okanagan Region.	\$24,550.00	Aaron Reid Ministry of Environment 250-354-6288 aaron.reid@gov.bc.ca
Habitat Enhancement Along the Okanagan River for Western Yellow-breasted Chat	8-423	This project aims to enhance riparian breeding habitat for an endangered subspecies, the Western Yellow-breasted Chat along the Okanagan River in Oliver, BC.	\$5,000.00	Kiirsti Owen 778-554-2942 kiirsti@gmail.com



*The Penticton Creek Restoration Initiative will continue to restore fish habitat that was degraded and lost due to flood protection works in the 1950s. The section of the creek restored in 2015 resulted in a significant increase in all fish habitat categories, including a fourfold increase in fish density within the restored area and a tenfold increase in salmonids.*

