

## 2018-19

# APPROVED PROJECT LIST

Projects Taking Place in Multiple Regions	1
Vancouver Island	
Lower Mainland	
Thompson Nicola	18
Kootenays	
Cariboo	27
Skeena	30
Omineca/Peace	32
Okanagan	35



\*Projects highlighted in green are co-funded 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 (CLSPP) 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 (WMAs) 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

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



BC: Nature Club Project  White Sturgeon Questionnaire	0-398	engagement and action. In this cycle, 7,500 youth ages 5-12 in 25 nature clubs across BC will learn about and step up for nature with 1,500 hands-on, outdoor nature adventures and stewardship projects.  This project will assess catch and effort to inform management decisions using information provided by White Sturgeon anglers and licensed non-tidal Angling Guides through reports, mail-outs and electronic	\$35,607.00 \$35,135.00	BC Society 604-985-3059 louisepedersen@ naturekidsbc.ca  Erin Stoddard Ministry of Forests, Lands and Natural Resource
/Recreational Fishery Monitoring		questionnaires to report on White Sturgeon fishing effort and catch in the middle and lower Fraser River during the 2017/2018 angling license year.	<del>, , , , , , , , , , , , , , , , , , , </del>	Operations (MFLNRO) 604-582-5374 Erin.Stoddard@gov.bc.ca
BC/TNT Joint Conservation Land Management	0-451	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 250-356-7669 Karen.Wipond@gov.bc.ca
BC Wild Sheep Conservation and <i>M.ovi</i> Control Program	0-466	This program will use new and innovative science to support the overall goal of reducing the risk of pneumonia outbreaks in wild sheep with minimal detriment to people raising domestic sheep on private land. The program coordinator will report to a 4-person steering committee to set objectives and activities for the year in an annual work plan which will be presented to the larger working group at the Wild Sheep Society of BC AGM. During the 2018-2019 year, the program coordinator will work with Ministry of Agriculture to develop a <i>M.ovi</i> Control Plan for BC domestic sheep that will keep research and policy development focused on the overall goal.	\$53,812.00	Jeremy Ayotte Phyla Biological Consulting 250-804-3513 jeremy.ayotte@gmail.com
Grizzly Bear Coexistence Solutions	0-467	This project promotes coexistence between grizzly bears and rural residents using correctly installed and maintained electric fencing to prevent and mitigate conflicts, and provides grizzly bear safety education. As conflicts are reduced and people are better educated about grizzly bear behaviour and provided with tools to mitigate conflicts, there will be an improvement in grizzly bear conservation status in BC, including connectivity between core populations of grizzly bears.	\$19,925.00	Gillian Sanders Sanders Environmental Services 250-353-1137 grizzlybearsolutions@ gmail.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Got Bats? B.C. Community Outreach, Conservation and Citizen Science Project	0-476	"Got Bats?" is a network of 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 population 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 for the program is a high priority action item in the BC Bat Action Plan (BC Bat Action Team, 2016).	\$77,804.00	Katie Calon British Columbia Conservation Foundation 604-576-1433 kcalon@bccf.com
Clarifying problematic distributions and habitat use of amphibians at risk in southwestern British Columbia 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. An accurate understanding of the current distributions is required to support appropriate management and species recovery. Environmental DNA methods will be applied, in collaboration with university partners, to achieve increased survey efficacy and accuracy relative to conventional methods.	\$43,789.00	Kristiina Ovaska Biolinx Environmental Research Ltd. 250-727-9708 ke.ovaska@gmail.com
Monitoring and Protecting BC's bat diversity prior to White-Nose Syndrome	0-511	White-nose Syndrome continues to devastate eastern bat populations and is found in Washington state in the west. We will continue to work with cavers and other citizen scientists to identify critical bat habitat, and establish baseline species diversity and relative abundance, reference points necessary for future monitoring, surveillance, mitigation, and recovery.	\$54,579.00	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 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.	\$8,900.00	Greg Andrusak MFLNRO 250-953-4763 greg.andrusak@gov.bc.ca
Determining factors that affect survival of moose in central BC (18- 0522)	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–Dec 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

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Rattlesnake populations: Response to land management regimes and historical changes	0-526	This project revisits the ecology of populations of Western Rattlesnakes (a species-at-risk) originally studied over 30 years ago. The main questions addressed are (i) how have snake populations changed over 30+ years, and (ii) how do different management regimes affected these changes? Given that data of this type are practically nonexistent, this project will provide important new data for assessing how landscape use and attributes affect these animals.	\$39,441.00	Karl W. Larsen Thompson Rivers University 250-828-5456 klarsen@tru.ca
Improving Total Utility of Recreational Angling for Bull Trout	0-531	Due to the paucity of information on Bull Trout populations across the landscape and the various fisheries in which Bull Trout are exploited in BC, it is often difficult to determine if conservation and bioeconomic goals (social, biological and management) for these fisheries are being met. Recent scientific evidence indicates that for this life history type, imposing minimum length size limits or harvest slot limits can assist fisheries in meeting and improving the social, biological and economic aspects. This project intends to assess the development and implementation of management alternatives that would assist with meeting fisheries program goals.	\$19,200.00	Greg Andrusak MFLNRO 250-953-4763 greg.andrusak@gov.bc.ca
Developing a prophylactic probiotic approach for reducing white-nose syndrome severity in bats	0-536	We will develop a prophylaxis for the prevention of white-nose syndrome. To accomplish this, we will derive a probiotic cocktail from anti-Pd bacteria and fungi naturally found on healthy western bat wings and apply to a large mixed roost of Little Brown and Yuma Myotis bats 200 km from the current WNS infection in Washington State. Bats that receive these inoculations at their maternity building roost will leave to hibernation with an altered wing flora comprised of a greater representation of anti-Pd microbes to delay or prevent Pd growth for a critical portion of the winter, hopefully enabling bats to successfully survive hibernation, and establishing a new method to reduce WNS mortality.	\$52,131.00	Cori Lausen WCS Wildlife Conservation Society Canada 250-353-8204 clausen@wcs.org
Effects of human disturbances on female wolverines	0-538	Understanding if human activities permanently displace female wolverines from otherwise suitable habitat is critical to long-term population sustainability. This large-scale survey will use noninvasive methods to examine distribution and habitat selection of female wolverine in the Columbia Mountains and investigate regional gene-flow patterns.	\$44,100.00	Marco Musiani University of Calgary 403-220-2604 mmusiani@ucalgary.ca
Fisher Habitat Conservation - Field Trials and Forestry Training	0-539	This project strives to increase the ability of foresters and forest workers to improve habitat outcomes for fishers in their operations and inspire them to include habitat needs of fishers in their forest management decisions.	\$55,745.00	Richard Weir Ministry of Environment 778-698-4390 Rich.Weir@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Determining factors affecting moose population change: assessing calving and survival rates	0-541	This project will enable new and continued information flow on moose population trends required for management decisions by assessing calf and cow survival rates and calving rates. These demographic parameters are primary drivers of population trend and key research gaps identified from the initial 5-year (2013-2018) Provincial Moose Research Project.	\$70,000.00	Shelley Marshall MFLNRO 250-614-7458 shelley.marshall@ gov.bc.ca
Using Local Knowledge and Hunter- based Sampling to Inform Mountain Caribou Conservation	0-543	We will fill knowledge gaps on health status and population trends of Northern Mountain caribou herds in BC through rigorous documentation of guideoutfitter knowledge and analyzing biological samples from harvested caribou. Concurrently, we will work with communities to develop capacity and a framework for community-based monitoring of wildlife health, status and trends.	\$39,327.00	Susan Kutz University of Calgary 403-210-3824 skutz@ucalgary.ca
Quality Waters Strategy - West Coast	0-545	This project focusses on the Classified Waters of Haida Gwaii. The work with include a River Guardian program to assess and enhance regulatory compliance of sport steelhead fisheries. Stock assessment will also be undertaken on the Yakoun River and an assessment of fishery impacts to cutthroat trout on the Tlell River.	\$29,775.00	Mike McCulloch MFLNRO 250-751-3156 mike.mcculloch@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



# Approved Projects on Vancouver Island

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M Vancouver Island	1-72	Operation & maintenance of the aeration program at Glen Lake, flow augmentation in Sandhill Creek, inspection and maintenance of fishways located in the Gordon River and Colquitz Creek and an Annual Dam Inspection at Keogh Lake.	\$11,750.00	Scott Silvestri MFLNRO 250-751-3128 scott.silvestri@gov.bc.ca
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. Further, we are able to obtain precise and accurate counts of returning adults via a fence trap, mark-recapture, and a resistivity counter. This 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.	\$126,400.00	Trevor Davies MFLNRO 250-387-3561 Trevor.Davies@gov.bc.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.	\$48,993.00	Trevor Davies MFLNRO 250-387-3561 Trevor.Davies@gov.bc.ca
Cowichan Lake Shoreline Stewardship - Fish & Wildlife Habitat Restoration Pilots	1-583	To slow & reverse critical shoreline & wetland habitat destruction in the upper Cowichan River basin (~30km of lakeshore impacted by development), the Cowichan Shoreline Stewardship Project (CSSP) engages resource professionals, youth, volunteers, private landowners, elected officials & the community at large in ecological restoration & riparian education. BC Conservation Foundation (BCCF) and Cowichan Lake & River Stewardship Society (CLRSS) members work closely with supportive landowners to restore lake & river shoreline properties and use these as practical demonstrations of enhanced stewardship of valuable riparian and wetland habitats. A plant ecologist and fish & wildlife habitat experts mentor and direct a planting team consisting of a VIU Natural Resource Protection graduate & 4 local secondary students, to implement each shoreline restoration plan.	\$30,000.00	Craig Wightman British Columbia Conservation Foundation (Lantzville) 250-390-2525 cwightman@bccf.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Estimating Cougar Populations on Northern Vancouver Island using DNA mark- recapture techniques	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.	\$36,152.00	Jerry MacDermott MFLNRO 250-751-3229 Jerry.MacDermott@gov.bc.ca
West Coast Roosevelt Elk Augmentation and Recovery Project	1-599	The primary objective of this project is to reestablish viable Roosevelt Elk populations in wilderness areas of the West Coast Region while mitigating conflicts through translocation of elk from agricultural areas and along the highways of Vancouver Island, BC. Partnerships with community organizations, stakeholders, industry and First Nations governments 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.	\$15,000.00	Billy Wilton MFLNRO 250-751-3213 william.wilton@gov.bc.ca
Lower Cowichan River Riparian Rehabilitation Program (Year 3 of 3)	1-623	On the lower Cowichan River in Year 3 (2018/19), BC Conservation Foundation (BCCF) will continue to partner with the CVRD, Cowichan Tribes (CT) administration and band members to deliver a third season of live-staking/planting at prioritized sites, following an approved multi-year Riparian Rehabilitation Plan developed in 2016/17. The goal continues to be the restoration of altered and impaired stream edge habitats to increase capacity for rearing trout and salmon primarily during the river's springtime flow state (i.e., smolting period). BCCF will continue to promote riparian habitat protection and rehabilitation with CT and local Cowichan Stewardship Roundtable members to increase awareness of the high value of quality stream habitat for healthy fish stocks.	\$23,000.00	James Craig British Columbia Conservation Foundation (Lantzville) 250-390-2525 jcraig@bccf.com
Vancouver Island Small Lake Enrichment - Program Expansion (Year 3 of 5)	1-644	Using established lake fertilization techniques with proven performance, this program aims to enrich up to eight 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.	\$36,443.00	Jeramy Damborg British Columbia Conservation Foundation (Lantzville) 250-390-2525 jdamborg@bccf.com
Blackburn Nature Reserve (Year 2 of 3)	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

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Cowichan Garry Oak Preserve (Year 2 of 3)	1-650	This Land Stewardship Grant will fund land management activities including management planning and further restoration of the Garry Oak ecosystem. Funding amount is over a three-year term.	\$20,280.00	Chris Perrin The Nature Conservancy of Canada 250-479-3191 chris.perrin@ natureconservancy.ca
Determination of Comox Lake Juvenile Cutthroat Trout Life History Strategies	1-664	This project will characterize the patterns of movement and recruitment origins of Coastal Cutthroat Trout in Comox Lake using otolith microchemistry. It will also use PIT tag detection in three tributaries to Comox Lake to determine annual spawn timing and spawner residency timing, as well as any degree of intermittent spawning.	\$25,587.00	Jamieson Atkinson British Columbia Conservation Foundation (Lantzville) 250-390-2525 jatkinson@bccf.com
Cowichan River Steelhead Population Dynamics - Year 2 of 5	1-665	This project aims to take advantage of a major investment in modern tag detection equipment recently installed in the lower Cowichan River. A dual full stream PIT tag detection array allows for the study of freshwater and marine survival rates as well as behavior, including migration timing. PIT tags are inexpensive relative to other forms of electronic tags allowing thousands of individuals to be tagged with a unique identifier. The tagging of juvenile and adult steelhead will provide data which could be used to inform ongoing watershed management actions.	\$36,595.00	Jeramy Damborg British Columbia Conservation Foundation (Lantzville) 250-390-2525 jdamborg@bccf.com
Restoring the Englishman River Estuary: Improving habitat for fish and wildlife	1-666	In partnership with government and local stewardship groups, this project seeks to restore coastal processes in the Englishman River estuary and improve fish and wildlife habitat by removing historical dikes/berms, enhancing tidal channels, increasing habitat complexity, restoring native vegetation and conducting public outreach.	\$41,884.00	Peter deKoning Nature Trust of BC 250-751-3154 Peter.deKoning@gov.bc.ca
Evaluating furbearer populations on southern Vancouver Island	1-668	This collaborative project is using non-invasive survey techniques to evaluate the distribution and abundance of Pacific martens, American minks, and Vancouver Island ermines, on southern Vancouver Island to help trappers and land managers maintain sustainable populations of these species.	\$34,020.00	Richard Weir Ministry of Environment 778-698-4390 Rich.Weir@gov.bc.ca
Settlement Lands (Year 2 of 3)	1-678	This Land Stewardship Grant is for 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

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Hague and Gunflint Lakes Bioremediation Project	1-683	This is a six-month research study to look into potential bioremediation measures for Hague and Gunflint Lakes. The results of the research will directly inform the development of appropriate bioremediation solutions for the lakes aimed at reducing nutrient input and mitigating the harmful impacts of algal blooms on these important water bodies.	\$5,000.00	Helen Hall Friends of Cortes Island Society 250-935-0087 friendsofcortes@gmail.com
Komoks Estuary Carex Restoration Development Plan	1-684	This project will aim to develop a conservation and restoration plan that implements key goals and objectives of the K'omoks Estuary Management Plan. The K'omoks First Nation (KFN) and the Guardians of Mid Island Estuaries Society have worked together since 2015 to help manage locally overabundant Canada Goose populations in concert with estuary restoration at the Englishman, Little Qualicum, and Campbell River estuaries. The KFN are now very concerned with the recent impacts to critical tidal marshes related to Canada. Goose over grazing of the K'omoks Estuary.	\$5,000.00	Cory Frank K'omoks First Nation 250-339-4545 cory.frank@komoks.ca
Protection of Juvenile Western Toads Along Recreational Shorelines	1-685	Educational signs, barriers and cover objects will be installed along the shorelines of two lakes where juvenile Western Toads are unintentionally trampled and/or collected for fishing bait or pets. We will compare the density of toads at the sites where we place temporary barriers and cover objects, before and after treatment, to determine the effectiveness of these protective measures.	\$11,282.00	Barbara Beasley Association of Wetland Stewards for Clayoquot & Barkley Sounds 250-726-2536 beasley@island.net
Gravel and LWD Placement in Lower Reach 2, Jordan River	1-692	This project is part of an ongoing effort to restore natural salmonid runs to the Jordan River through enhancement of habitat for all freshwater life stages	\$15,000.00	Helen Jones Pacheedaht First Nation 250-647-5521 research@pacheedaht.ca
Re-establishing Vancouver Island Marmots in Strathcona Provincial Park	1-693	The Marmot Recovery Foundation will build and extend on efforts to reintroduce Vancouver Island Marmots to Strathcona Provincial Park and create a self-sustaining population of the endemic mammals. Efforts will focus on translocations, food enhancement, monitoring and potentially habitat restoration as guided by BC Parks.	\$45,100.00	Adam Taylor Marmot Recovery Foundation 250-995-2428 adam@hat.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Gold River - Steelhead Stock Decline Investigations	1-694	This project will evaluate the current abundance of wild summer and winter run Steelhead during all life-stages in the Gold River. A brief habitat overview and limiting factors analysis will be conducted and will consider factors both within the watershed and the marine environment. The potential role of predation within the lower river and estuary will also be a key part of the project's scope. Subject to project outcomes, an action plan will be developed with management recommendations for activities to assist this dwindling wild stock, historically supporting one of the most productive winter-run Steelhead sport fisheries on the Pacific Coast.	\$22,530.00	Jeramy Damborg British Columbia Conservation Foundation (Lantzville) 250-390-2525 jdamborg@bccf.com
Comox Bay Farm Wetland Restoration	1-698	Restore Len's Pond, additional wetland habitat, and a section of Glen-Urquhart Creek on Ducks Unlimited Canada's Comox Bay Farm Property. This work will improve water quality, and provide habitat for waterfowl, fish (coho, chum and cutthroat trout), other birds, and amphibians. We will work to actively engage the community in stewardship of this habitat by actively recruiting volunteers to help with project monitoring and holding a stewardship course in Year 2.	\$15,730.00	Jennifer Sutherst Comox Valley Project Watershed Society 250-703-2871 estuary.projectwatershed@ gmail.com
Promoting Wildlife Habitat Protection and Enhancement on Salt Spring Island, BC	1-700	Over two years, the Salt Spring Island Conservancy (SSIC) will work to protect and enhance rare ecosystems on Salt Spring Island, BC. Habitat protection will be achieved through working with landowners to protect sensitive ecosystems through acquisitions, donations, conservation covenants, and Stewardship Agreements. In addition, habitat enhancement of rare ecosystems will be achieved through: 1) restoration of imperiled Garry Oak ecosystems in SSIC's Andreas Vogt Nature Reserve; 2) implementing initial upland forest restoration in SSIC's newest eighth nature reserve containing rare Coastal Douglas-fir and Garry Oak ecosystems; 3) hosting the BC Wildlife Federation's Wetlands Institute, a weeklong hands-on workshop at SSIC's Blackburn Lake Nature Reserve to teach participants to design, plan and implement wetland restoration; and 4) sponsoring educational events and signage to encourage public engagement in wetlands, stream and shoreline stewardship.	\$45,000.00	Christine Torgrimson Salt Spring Island Conservancy 250-538-0318 christine@ saltspringconservancy.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Restoring North Vancouver Island Estuaries	1-702	This project aims to restore coastal processes and improve fish and wildlife habitat in the Quatse River Wildlife Management Area (WMA) and the Salmon River Estuary Conservation Area. In partnership with government, First Nations and local stewardship groups, we will construct sedge benches and freshwater tidal channels in the Quatse WMA; and, remove invasive species, improve riparian habitat, construct/enhance wetlands, and conduct habitat enhancements for Roosevelt Elk in the Salmon River Estuary Conservation Area.	\$60,155.00	Peter deKoning Nature Trust of BC 250-751-3154 Peter.deKoning@gov.bc.ca
Wildwood Creek Wetland Stewardship Project	1-705	This three-year stewardship project will restore and enhance ecologically important habitat in the Wildwood Creek watershed to increase connectivity between regionally protected lands and increase community understanding, participation and regional leadership in conservation.	\$29,315.00	Paige Erickson-McGee Habitat Acquisition Trust 250-995-2428 paige@hat.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

#### Approved Projects in the Lower Mainland

Project Name	Project #	Project Description	<b>Grant Amount</b>	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 2018- 2019	2-375	This stewardship-led project continues the successful and award-winning Lower Fraser River White Sturgeon Monitoring and Assessment Program established in 2000. The project has been identified as a priority action by the TWG and aligns with the recently completed Lower/Mid-Fraser White Sturgeon 5 Year Strategic Action Plan. The 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 2018-19 project is year 3 of a 5-year continuing multi-year HCTF project (2016-2021), and will be the 19th consecutive year of the program.	\$60,000.00**	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 by introducing youth and adults to the sport. L2F is delivered across all regions of the province to over 25,000 youth and their families annually with support from HCTF and its other program partners.	\$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 (TWG & CWG).	\$9,307.00	Erin Stoddard MFLNRO 604-582-5374 Erin.Stoddard@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



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. Inferences will be directly relevant to understanding short and long-term implications of cumulative human impacts on grizzly bear recovery and conservation. Data will also contribute to long-term tracking of population responses. Predictive outputs that are empirically tested will serve to direct appropriate mitigation and conservation strategies.	\$29,700.00	Clayton Apps Aspen Wildlife Research Inc. 403-270-8663 clayton.apps@telus.net
Lower Fraser White Sturgeon Telemetry Study: Long- term monitoring of adult sturgeon movement activities and habitat use	2-530	This long-term (10 yr.) project is monitoring adult (>160 cm) White Sturgeon movements, migrations and habitat use through the acoustic tracking of adult sturgeon within and between over-wintering, feeding and spawning habitats in the Lower Fraser, Pitt and Harrison Rivers to assess patterns, periodicity and fidelity.	\$47,428.00	Erin Stoddard MFLNRO 604-582-5374 Erin.Stoddard@ gov.bc.ca
Conservation of Threatened Raptors on the Sunshine Coast	2-552	We will conduct surveys to identify and assess occupied breeding territories for Western Screech-Owls and Northern Goshawks on the Sunshine Coast, and work with government, First Nations, industry, and landowners to protect these areas.  Complementary engagement activities will improve awareness and participation in raptor stewardship activities.	\$14,700.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 mjevelyn@gmail.com
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
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.	\$41,444.00	Caroline Melville Instream Fisheries Research Inc. 604-428-8819 caroline@instream.net

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Mountain Goat Census: Management Unit 2-5 and North Lillooet River (2-11)	2-588	We will conduct a census of mountain goats on all suitable mountain blocks within Management Unit (2-5), and re-survey (from 2013) all suitable mountain blocks north of the Lillooet River in MU 2-11. The 2013 survey (HCTF Project 2-515) resulted in a new LEH opportunity, and we committed to resurveying that area within 3-5 years of the initial survey. This project will generate a population estimate for these areas and will inform First Nations and stakeholders with respect to management decisions.	\$25,400.00	John Kelly MFLNRO 604-885-8906 John.Kelly@gov.bc.ca
Lower Fraser River Ghost Net Removal Initiative	2-603	This project proposes the continuation of a collaborative initiative (launched as a pilot in 2017) to remove ghost nets from the Fraser River resulting from various in-river fisheries. The Fraser River Sturgeon Conservation Society has identified these "ghost" nets as a key impact to the survival of White Sturgeon, due to potential entanglement and/or unintentional interception. Ghost nets are defined as fishing nets that may be lost, broken off, forgotten, abandoned or illegal nets that cannot be seen from the water's surface because they don't have corks on their float line. These nets remain in the river continuing to kill sturgeon after a fishery is closed.	\$33,958.00	Sarah Schreier Fraser River Sturgeon Conservation Society 778-322-7345 sarah@ frasersturgeon.com
Windebank (Year 2 of 3)	2-605	This Land Stewardship Grant will be used to restore 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.
Grauer Wetlands (Year 1 of 2)	2-606	Since securement in 2012 and subsequent restoration efforts in 2013, Grauer has become an incubator project to develop estuary monitoring activities. Our vision is to continue evaluating monitoring methods within Grauer and expand methods to another site in the Fraser River Estuary (Boundary Bay). We intend to use the results of this project to guide our estuary monitoring efforts on a broad scale to Vancouver Island and ultimately to other areas along the BC Coast. Funding amount is over a two year term.	\$20,650.00	Sarah Nathan Ducks Unlimited Canada 604-592-5009 s_nathan@ducks.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Lower Fraser White Sturgeon Monitoring Project	2-614	The Lower Fraser First Nations White Sturgeon Monitoring Project addresses critical data gaps in understanding encounters with white sturgeon during First Nations fisheries. By establishing a multiyear monitoring program, the Project: (1) increases information to input into population modelling; (2) increases marking of juveniles to understand recruitment and better understand of threats; and (3) works towards beneficial use of sturgeon. The project will develop and engage First Nations to work collaboratively with the Province to manage and steward the fish, as well as collaboratively with external partners to better understand and monitor Lower Fraser sturgeons.	TBD**	Janson Wong Lower Fraser Fisheries Alliance 604-852-4040 janson.wong@Iffa.ca
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.	\$64,998.00	Colin Schwindt MFLNRO 604-586-3728 Colin.Schwindt@ gov.bc.ca
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.	\$29,800.00	Michelle Evelyn Sunshine Coast Wildlife Project 604-886-1910 mjevelyn@gmail.com
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 of British Columbia. This information is necessary to help trappers and land managers maintain sustainable populations in the Lower Mainland.	\$33,088.00	Richard Weir Ministry of Environment 778-698-4390 Rich.Weir@gov.bc.ca
Wolverine movements, home range and habitat use in a human dominated landscape, South Coast	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. This proposal builds on the inventory and distribution data collected in HCTF Projects 2-519 and 2-600	\$45,425.00	Cliff Nietvelt MFLNRO 604-702-5740 Cliff.Nietvelt@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Morris Valley Habitat Enhancement for Oregon Spotted Frog	2-633	This project will result in habitat enhancement at a modified wetland site in the Lower Fraser Valley with substantial benefit to local biodiversity and the critically endangered Oregon Spotted Frog. First step is collecting existing data, creating a topographic map, and assessing opportunities and threats of habitat enhancement at this site.	\$5,000.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@ fraservalleyconservancy.
Bert Brink Wildlife Management Area Wetland Restoration Project	2-635	Seed funding will be used to develop a plan to restore a former hay field within the Bert Brink Wildlife Management Area into a functional wetland and riparian zone. Wetland and riparian restoration within the WMA could benefit up to 117 species of wildlife, including birds, mammals, reptiles, and amphibians.	\$4,952.00	Eric Balke Ducks Unlimited Canada 604-586-5643 Eric.Balke@gov.bc.ca
Chilliwack River Adult Winter Steelhead Stock Assessment	2-639	This project comprises a series of snorkel float surveys to obtain 1) an index of peak abundance of adult winter steelhead during the 2018/2019 Chilliwack River spawning migration, and 2) a ratio of hatchery-origin to wild adult steelhead at the completion of the 2018/2019 recreational fishing season.	\$17,372.00	Mike Willcox MFLNRO 604.586.4400 Michael.Willcox@ gov.bc.ca
Mountain Goat Seasonal Movements and Habitat Use in the Mount Meager Complex, South Coast	2-640	We proposed to radio collar (GPS) 20-25 mountain goats in the Mount Meager Complex. The objectives are to determine if these goats make large seasonal movements to and from winter ranges, as well as quantify habitat use in winter and summer in relation to the burned habitats. As this is a hunted population and perhaps one of the largest and most important goat populations in the South Coast, this information on seasonal movements and habitat use is crucial in our understanding of how to better manage this population.	\$45,395.00	Cliff Nietvelt MFLNRO 604-702-5740 Cliff.Nietvelt@gov.bc.ca
Improving Goshawk conservation by addressing knowledge-gaps in the South Coast	2-641	This project will investigate the efficacy of new telemetry technologies for addressing knowledge-gaps identified in the recovery strategy. Advancing our understanding of how Goshawks interact with their habitat will help enable us to implement meaningful conservation measures that address current threats to populations in the south coast region.	\$80,000.00	Melanie Wilson MFLNRO 604-586-5649 Melanie.L.Wilson@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

The Metamorphosis of the Ryder Lake Amphibian Protection Project	2-642	This project will test and install permanent directional fencing at Ryder Lake, improving and completing the amphibian crossing structure installed in 2015. We will be expanding our RLAPP project by sharing the lessons learned over the past 9 years with other amphibian stakeholder groups. We will be engaging the citizens of the Fraser Valley to help us identify other productive amphibian wetlands that may also need mitigation measures to reduce road mortality on a regional scale.	\$20,405.00	Joanne Neilson Fraser Valley Conservancy 604-625-0066 joanne@ fraservalleyconservancy. ca
Roosevelt Elk Inventory - South Coast	2-643	We will conduct inventory of Roosevelt Elk in the South Coast Region, through annual aerial flights. This project will generate population estimates for each unit surveyed and results will lead to improved conservation, management and planning.	\$50,000.00	Darryl Reynolds MFLNRO 604-885-7419 Darryl.Reynolds@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

# Approved Projects in the Thompson Nicola Region

Project Name	Project #	Project Description	<b>Grant Amount</b>	Project Leader Contact Information
Fisheries O&M - Headquarters	3-60	Maintain the Kane Valley Ranch for fisheries research. Maintain property, repair fences, pay the Hydro for aeration system, maintain caretakers house (plumbing, wiring, mechanical).	\$7,650.00	Brett Van Poorten Ministry of Environment 604-222-6761 Brett.VanPoorten@ gov.bc.ca
Fisheries O&M - Thompson- Nicola	3-94	Operation and maintenance of existing lake aeration, stream diversions, outlet fence, riparian fencing, open diversion ditches and dam structures that enhance the angling opportunities of high use lakes within the Thompson-Nicola region.	\$65,400.00	Andrew Klassen MFLNRO 250-371-6237 andrew.klassen@ gov.bc.ca
Fisheries O&M - Bonaparte	3-154	Operation and maintenance of the Bonaparte Fishway and the Bonaparte Lake Dam.	\$28,450.00	Robert G. Bison MFLNRO 250-371-6244 Robert.Bison@gov.bc.ca
Interior Fraser Wild Steelhead Conservation	3-251	This project is for the continued monitoring of abundance, productivity and conservation status for wild Interior Fraser steelhead which includes Thompson and Chilcotin steelhead. The project will provide scientific knowledge to inform provincial and federal fisheries management planning, processes and decisions for conservation and responsible use. The project will provide data and knowledge to encourage better fishing practices and coordination of management between provincial and federal fisheries agencies and First Nations.	\$76,000.00	Robert G. Bison MFLNRO 250-371-6244 Robert.Bison@gov.bc.ca
Wetlands Institute 2018: Salt Spring Island	3-272	The Wetlands Institute workshop provides training to individuals involved in wetland stewardship projects in BC. The 2018 Institute on Salt Spring Island will provide high quality training and 4 handson wetland restoration and design projects. It aims to support regional initiatives. Following the Institute, participants are offered ongoing support to successfully complete their own projects.	\$45,500.00	Neil Fletcher BC Wildlife Federation 1-888-881-2293 wetlands@bcwf.bc.ca
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

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Monitoring the endangered Stein/ Nahatlatch and South Chilcotin grizzly bear populations	3-283	The objective of this study is to collect the data necessary to supplement previous research on the McGillvary Mountain part of the South Chilcotin and Stein-Nahatlach grizzly bear populations. We aim to identify mechanisms causing population change, particularly the stable/slow decline trend of the SN population so that appropriate conservation measures can be taken.	\$13,800.00	Michelle McLellan Victoria University of Wellington 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.	\$36,250.00	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 Opportunities	3-347	Historically, Nicola Lake burbot provided a popular recreational fishery, but harvest opportunities ceased in the 1990s due to concerns over exploitation. 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
Thompson Region Bighorn Sheep Collaring Project	3-369	This project aims to 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.	\$24,300.00	Gerad Hales MFLNRO 250-371-4457 Gerad.Hales@gov.bc.ca
Windy Lake - Post Treatment Follow Up	3-392	Yellow perch were eradicated from Windy Lake in the fall of 2017. Before the treatment could be conducted a number of yellow perch were captured downstream of the lake. Post-treatment sampling is required to look for potential residual populations downstream before they become established. Native stocks of rainbow trout and whitefish will also be captured and reintroduced into Windy Lake.	\$26,200.00	Andrew Klassen MFLNRO 250-371-6237 andrew.klassen@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Stream Temperature Modelling in the Thompson Okanagan	3-394	Three stream temperature models will be developed and will be used to assess thermal management options in the Thompson/Okanagan Region. The options include riparian vegetation replanting, flow modifications, and lake outflow temperature adjustment.	TBD**	Ryan Whitehouse MFLNRO 250-371-6305 ryan.whitehouse@ gov.bc.ca
Middle Fraser Sturgeon Guardian Program	3-405	The project consists of: (1) a continuation of a fishery guardian program to improve compliance, foster best practices and to engage with anglers on the regulation and management of the sport fishery and (2) the estimation and monitoring of catch, catch rate and effort over time so as to help inform on time and spatial trends in sturgeon abundance in the middle Fraser River.	\$27,200.00	Robert G. Bison MFLNRO 250-371-6244 Robert.Bison@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

#### Approved Projects in the Kootenays

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M - Kootenay	4-64	Operation and maintenance of two West Kootenay kokanee spawning channels which support a genetically unique strain of kokanee and associated ecosystem and sport fishery benefits.	\$53,500.00	Matt Neufeld MFLNRO 250-354-6353 matt.neufeld@gov.bc.ca
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	Kootenay Conservation Program (KCP) is a highly successful partnership program that focuses on securement and stewardship of high value private conservation lands while building the capacity of, and serving as a network for our 80+ partner organizations.	\$30,000.00	Juliet Craig Nature Trust of BC 250-352-2260 manager@ kootenayconservation.ca
South Rockies Grizzly Bear Inventory	4-410	We have been monitoring grizzly bear population trend in wildlife management units 4-01, 4-02, and 4-23 since 2006. We now intend to focus on understanding and mitigating the causes of non-hunting mortality, especially when it is not reported nor recorded in the provincial mortality data.	\$40,000.00	Garth Mowat MFLNRO 250-354-6142 garth.mowat@gov.bc.ca
Kootenay Region River Guardian Program	4-444	River Guardian presence in eight Kootenay Region classified watersheds with the objective to maintain or improve the quality of angling in these systems and protect native sport fish populations. River Guardians will provide a compliance presence, educate public, anglers and other stakeholders, and collect angler survey data and biological/inventory data.	\$112,500.00	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.	\$43,055.00	Lisa Tedesco MFLNRO 250-354-6352 lisa.m.tedesco@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



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.	\$40,800.00	Patrick Stent MFLNRO 250-489-8578 Patrick.Stent@gov.bc.ca
Elk Valley Rocky Mountain Bighorn Sheep Inventory	4-526	This project will monitor the population health and status of bighorn sheep along the east side of the Elk Valley. To provide data regarding habitat use and distribution to improve management of bighorn sheep.	\$11,000.00	Irene E. Teske Ministry of Environment 250-489-8551 Irene.Teske@gov.bc.ca
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.	\$8,825.00	Patrick Stent MFLNRO 250-489-8578 Patrick.Stent@gov.bc.ca
Determination of Gerrard Rainbow Trout Stock Productivity at Low Abundance	4-539	This project will 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 250-953-4763 greg.andrusak@gov.bc.ca
Bull River Bighorn Sheep: Herd Health and Movement Dynamics	4-546	This will be the third and final year for this project. A total of 15 GPS collars have been deployed with 1 mortality. This year we will compile and analyze 2 years of GPS collar data and compile herd health sampling results.	\$12,000.00	Jeremy Ayotte Phyla Biological Consulting 250-804-3513 jeremy.ayotte@gmail.com
Elk Valley Heritage Conservation Area (Year 2 of 3)	4-548	This Land Stewardship Grant will be used for 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@natureconser vancy.ca
Dutch Creek Hoodoos (Year 2 of 3)	4-549	This Land Stewardship Grant will fund 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@natureconser vancy.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Determination of Bull Trout Stock Productivity at Low Abundance	4-555	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. Data will provide important information on the maximum reproductive rate of this stock which can only be obtained under low stock abundance.	\$53,400.00	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 2 critical bighorn sheep winter ranges. The quality of existing forage within low elevation bighorn sheep winter ranges is compromised at Bull River and Wigwam Flats locations. This proposed project is attempting to increase the quality of grasslands by reducing invasive species and increasing forage species.	\$61,000.00	Irene E. Teske MFLNRO 250-489-8551 Irene.Teske@gov.bc.ca
Longevity of Woody Debris Habitat Structures for Prey Species of Furbearers: Ghost-towns or Viable Habitat?	4-559	Piles and windrows of woody debris on new clear-cuts provide corridors to assist marten, small weasels, and some larger carnivores to cross forest openings. Small mammal prey species are also enhanced in these structures. We ask if these responses of prey species are maintained at 11-12 years after these restoration habitats were constructed.	\$20,000.00	Thomas P. Sullivan Applied Mammal Research Institute 250-494-7160 tom@ appliedmammal.com
Diversifying MPB Clear-cuts for Small Mustelids: Green-tree Retention, Debris Piles, and Enhanced Riparian Habitats.	4-560	Restoration of wildlife habitat with combined habitat components after clear-cut harvesting of MPB-killed lodgepole pine stands. Three methods of habitat enhancement for small mustelids and their prey species to diversify clear-cuts include (1) green-tree retention, (2) woody debris piles, and (3) enhanced riparian zones.	\$29,000.00	Thomas P. Sullivan Applied Mammal Research Institute 250-494-7160 tom@ appliedmammal.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



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. To do this we will summarize existing ecological information and data gaps, wetland values and threats, identify the vulnerability of the wetlands to climate and hydrological change, identify conservation priorities, engage with First Nations, local governments & other stakeholders to coordinate the policy objectives & lay out a step by step process to define the kind of overarching plan needed to help governments protect the wetland and adjacent sensitive lands.	\$53,955.00	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. Between 2013 and 2016 we developed an accurate predictive model for huckleberry patches-important-to-grizzly-bears in the south Selkirk and Purcell Mts. This project will expand that model into the east and north Kootenays, the Central Purcell and Selkirks, the Valhalla, and Granby regions. Our huckleberry patch model is already being used by resource managers to plan timber harvest and protect important berry patches through access controls. There is a strong demand for this model to be expanded regionally for these same purposes.	\$33,560.00	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.	\$10,000.00	Clayton Lamb MFLNRO 778-215-0334 ctlamb@ualberta.ca
Enhancing wolf monitoring with bioacoustics in the East Kootenays	4-568	The project objective is to develop a cost-effective survey method to measure wolf abundance and trend in the Kootenay-Boundary Region by assessing the effectiveness of bioacoustics and comparing it with established methods, such as camera-trap based occupancy.	\$32,055.00	Adam Ford University of British Columbia Okanagan 250-807-9773 atford@gmail.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Quantifying and enhancing pest services provided by bats to the BC Timber Industry	4-569	This project focuses on scoping methods and costs to enhance and quantify pest services provided by bats to the forest industry. The project's goals include: (1) Identifying the pest services provided by bats to the forest industry and (2) testing new enhancement methods that could be used by the forest industry to re-establish bat roosts where roosts are limiting or have been impacted by forest practises.	\$5,000.00	Darcie Quamme Integrated Ecological Research 250-352-2603 quamme@ecological.bc.ca
Southern Interior White- tailed Deer Harvest Assessment	4-570	This project will develop a study design estimate harvest rates of female white-tailed deer and sustainability of current white-tailed deer seasons.	\$5,000.00	Patrick Stent MFLNRO 250-489-8578 Patrick.Stent@gov.bc.ca
Action Plan for Introduced Invasive Fish at New and Fussee Lakes	4-571	This project will develop an action plan at Fussee and New Lakes that had recent illegal introductions of bass and perch.	\$14,700.00	Heather Lamson MFLNRO 250-489-8561 Heather.Lamson@ gov.bc.ca
Kootenay River Ranch Forest Resiliency and Restoration	4-572	The goal of this project is to restore open forest structure on approximately 56 ha of ingrown Rocky Mountain Douglas fir forest on the Kootenay River Ranch conservation lands in the Rocky Mountain Trench. Restoration of ingrown forests will create greater resiliency for terrestrial and freshwater habitats. Restored ecosystems will enhance habitat for large mammals, particularly wintering ungulates and threatened species such as badger and Lewis's Woodpecker.	\$62,264.00	Richard Klafki The Nature Conservancy of Canada 250-688-6270 Richard.Klafki@ natureconservancy.ca
Maintenance of Furbearers and Prey Species on Large Clearcut Openings Using Linear Piles of Woody Debris	4-576	This proposal is designed to investigate the responses of small mustelids and their prey species to piles of woody debris arranged in a linear configuration across large (50+ ha) clear-cut openings. Presence of these mammals in piles will indicate that these structures are effective as habitat in large clear-cut openings.	\$30,000.00	Thomas P. Sullivan Applied Mammal Research Institute 250-494-7160 tom@ appliedmammal.com
Elk River Cutthroat Trout Research Initiative	4-577	The Elk River Cutthroat Trout Research Initiative will identify and map important Westslope Cutthroat Trout (WCT) habitat, prioritize and describe restoration opportunities and plan for a population assessment in the upper Elk River Watershed. ERWA will engage local community, increasing awareness of WCT health, habitat and threats.	\$30,185.00	Allie Ferguson Elk River Watershed Alliance 250-423-3322 allie@elkriveralliance.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



West Arm Spawning Channel Infrastructure Repair	4-578	West Arm spawning channels support wild kokanee conservation and a popular fishery (up to 4,000 angler days/year) which generates \$300,000 to \$600,000 annually to the local economy. This project aims to replace ageing infrastructure at these channels and therefore continue to supply stock conservation and fishery benefits.	\$36,025.00	Matt Neufeld MFLNRO 250-354-6353 matt.neufeld@gov.bc.ca
Monitoring white-tailed deer to support adaptive caribou management	4-580	The majority of caribou herds in western Canada are declining, largely due to increased predator abundance supported by invading moose and white-tailed deer. Our project will evaluate factors influencing white-tailed deer populations to support mountain caribou management decisions.	\$36,640.00	Robert Serrouya Columbia Mountains Caribou Project 250-837-6022 serrouya@ualberta.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

## Approved Projects in the Cariboo

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M - Cariboo	5-44	Enhance fisheries through: lake aeration on Skulow, Irish and Simon lake; operation and maintenance of Haines Creek diversion to the 11 sister lakes; dams, weirs, and fish passage restoration on other lakes and stream.	\$49,350.00	Todd Gale MFLNRO 250-398-4555 Todd.Gale@gov.bc.ca
Mid-Fraser River White Sturgeon Radio Telemetry Program	5-196	This is year four 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. This project builds upon previously completed HCTF project 5-196.	\$32,000.00	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.	\$104,401.00	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 (deer winter range) 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.	\$30,946.00	Douglas Ransome BC Institute of Technology 250-554-2561 Doug_Ransome@bcit.ca
Elkin Creek Nature Preserve (Year 2 of 3)	5-288	This Land Stewardship Grant will fund land management activities including fencing to protect sensitive areas, stewardship planning and boundary delineation. Funding amount is over a three-year term.	\$35,000.00	Wayne McCrory Valhalla Foundation for Ecology 250-358-7796 waynem@vws.org
Scout Island (Year 2 of 3)	5-289	This Land Stewardship Grant will support restoration activities including invasive species removal, planting of native species, and managing over grazing by Canada Geese. Funding amount is over a three-year term.	\$36,300.00	Susan Hemphill Williams Lake Field Naturalists 250-398-8532 shemphill@xplornet.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Ducks Unlimited Canada's BC Priority Wetland Rebuild, Design, and Management	5-293	This project will refurbish infrastructure at our Chilco Ranch and Douglas-Rush Lake projects to maintain 170 ha and 57 ha of high-quality wetland habitat for waterfowl respectively. We will complete design and costing for an additional four projects across the province, including 148 Mile Ranch, Koksilah Marsh, Mayook Marsh and Gay Lake so that we can conduct restoration and refurbishment work at these sites in 2019.	\$250,000.00	Sarah Nathan Ducks Unlimited Canada 604-592-5009 s_nathan@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 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 west of Williams Lake where we are conducting concurrent work on marten.	\$38,647.00	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 is tracking 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.	\$79,308.00	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 opportunities and reduced competition or predation on kokanee and rainbow trout.	\$57,756.00	Russell Bobrowski MFLNRO 250-398-4258 Russell.Bobrowski@ gov.bc.ca
Willow River Stream Restoration	5-301	This project aims to remediate the impacts of past gold mining activities in the Willow River Headwaters. At present the Willow River as it leaves Jack of Clubs Lake at its headwaters, is highly channelized and flows through mining tailings with minimum fish habitat. The intent of this project is to increase fish habitat complexity to improve fish productivity in this reach.	\$5,000.00	Peter Corbett Willow River Headwaters Restoration Society 250-226-7245 pcorbett@idmail.com
Recreation and land use impacts on South Chilcotin Mountains wildlife	5-303	We will use camera trapping and advanced statistical analyses to untangle the relative impacts of environmental factors and human activities on the distribution and abundance of key wildlife species (e.g., grizzly bears, mountain goats). The results will help managers and stakeholders assess how human activities impact the area's wildlife.	\$5,000.00	Robin Naidoo University of British Columbia 778-323-4173 robin.naidoo@gmail.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Sheep Flats Ecosystem Restoration	5-304	This one-year project will restore important California Bighorn Sheep habitat in Churn Creek Protected Area by removing tree encroachment and ingrowth from Sheep Flats grasslands and forests.	\$36,500.00	Peter Opie Friends of Churn Creek Protected Area Society 250-392-1440 peter&skye@telus.net
Horsefly River - Rainbow Trout Enumeration and Habitat Use Study	5-306	This project will develop a cost-effective method to index abundance of Quesnel Lake rainbow trout to provide the basis for long term management of the stock. Acoustic telemetry will also be used to identify critical habitats across the Horsefly River watershed. Information will be used to implement legislative habitat protection measures.	\$53,000.00	Lee Williston MFLNRO 250-398-4696 Lee.Williston@gov.bc.ca
Assessing cougar density in The Cariboo Region through non-invasive survey techniques	5-307	This project utilizes closed spatial mark-recapture modelling to estimate cougar population densities in a study area of region 5. This project will incorporate a citizen science component for estimating cougar populations by including stakeholders.	\$48,601.00	Shane White MFLNRO 250-398-4553 Shane.White@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

## 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 runtiming, 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
Restoring Whitebark Pine Ecosystems to Enhance Subalpine Bear Habitat	6-227	This is year 2 in the 2nd 5-yr cycle of a multi- partner project to restore endangered whitebark pine ecosystems with high value for bears in the southern Skeena Region. 2018-19 plans include (1) a major seed collection; (2) stratifying >20000 seeds (3) rust-resistance screening; (4) monitoring 2017 plantings; and (4) capacity-building and outreach.	\$67,724.00	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, stock assessment 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.	\$3,900.00	Joe De Gisi MFLNRO 250-847-7288 joe.degisi@gov.bc.ca
Determining Population Management Unit Boundaries for Mountain Goats in Skeena Region	6-252	This project 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; results of this study can help to inform biologically based PMUs in the remainder of the Skeena Region.	\$47,100.00	Krystal Dixon MFLNRO 250-847-7274 krystal.dixon@gov.bc.ca
Moose Fund: Skeena Moose Enhancement Project	6-253	The second year of the Skeena Moose Enhancement Project will consist of developing a moose habitat enhancement manual that provides a comprehensive evaluation of enhancement options available with detailed descriptions of the techniques including planning, implementation and monitoring phases.	\$36,800.00	Tobi Anaka MFLNRO 250-847-7564 Tobi.Anaka@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Investigating Grizzly Bear Population Genetic Structure on the Central Coast of British Columbia	6-257	This project will investigate the level of population genetic structure of grizzly bears on the central coast to identify factors that resist or facilitate grizzly bear gene flow. The identification of structure and its mitigating factors will address short and long term goals of grizzly bear management.	\$26,260.00	Lauren Henson University of Victoria 250-891-7883 hensonlh@gmail.com
Moose Winter Range Willow Browse Enhancement	6-259	Mature willow felling/hinging to promote moose forage production.	\$4,980.00	Len Vanderstar Bulkley Valley Rod & Gun Club 250-847-7326 len.vanderstar@gov.bc.ca
Kitimat River Coastal Cutthroat Trout Monitoring	6-260	This project will explore stock assessment options for Kitimat Coastal Cutthroat Trout (CCT). Our goal is to utilize this funding to develop a full HCTF proposal for 2019/20 which would address risk factors in order to improve the management and conservation outlook of Kitimat River CCT.	\$5,000.00	Kris Maier MFLNRO 250-847-7321 Kris.Maier@gov.bc.ca
Assessing Impact on Moose Winter Habitat by Poplar and Willow Borer	6-265	The extent of the poplar and willow borer infestation in BC has not been assessed since 1999 and implications on moose habitat have not been investigated despite the overlap with declining moose populations over the past decade. This project will examine the current distribution of the poplar and willow borer and the species" impact to moose winter habitat in the Skeena Region.	\$38,485.00	Heidi Schindler MFLNRO 250-847-7423 heidi.schindler@gov.bc.ca
Quality Waters Strategy - Skeena	6-268	This project includes fishery development and planning activities on the Bulkley, Kispiox and Morice Rivers, including review of angler effort targets and feasibility of lottery booking systems. Also includes stock assessment activities on the Skeena, Kitwanga, and Bulkley Rivers.	\$113,000.00**	Kenji Miyazaki MFLNRO 250-847-7266 Kenji.Miyazaki@gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



## Approved Projects in the Omineca/Peace Region

Project Name	Project #	Project Description	Grant Amount	Project Leader Contact Information
Fisheries O&M - Peace	7-98	Operation & maintenance of HCTF-funded projects and assets will include winter aeration of Inga and Sundance Lakes, educational trips to the Inga Lake spawning channel, Swan Lake fishway maintenance and Stewart Lake weir maintenance.	\$22,000.00	Michel Lavallee MFLNRO 250-787-3324 michel.lavallee@gov.bc.ca
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
Enhancing caribou survival within the Klinse- Za/Scott herds	7-436	This will be Year 5 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.	\$66,436.00	Jason Lee Nun wa dee Stewardship Society 250-261-3887 jlee@nunwadee.ca
Monitoring Plan for the Mountain Goat 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, increasing the risk that population objectives are not being met. 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.	\$41,000.00	Michael Klaczek MFLNRO 250-614-7456 michael.klaczek@ gov.bc.ca
Determining the Nutritional Importance of Kokanee to Grizzly Bears	7-471	Through non-invasive hair collection methods, we aim to determine the nutritional importance of kokanee to grizzly bears in north-central BC. Diet composition and kokanee consumption will be assessed to provide insight into potential physiological implications of decreasing kokanee availability to these grizzly bear populations in light of habitat and climate change.	\$32,880.00	Shelley Marshall MFLNRO 250-614-7458 shelley.marshall@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



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 up to 10 wolf packs in each site by deploying satellite collars and checking location clusters for evidence and type of prey killed, while also determining space use parameters and resource selection.	\$83,958.00	Morgan Anderson MFLNRO 250-614-7400 Morgan.Anderson@ gov.bc.ca
Chase Caribou Herd Response to Extensive Habitat Alterations - Year 2	7-475	This project will assess the potential impacts of recent large-scale habitat alterations caused by damaged forests (wildfire and mountain pine beetle) on the population stability of the Chase caribou herd. We will contrast current population parameters to population parameters of the herd prior to recent disturbance.	\$69,999.00	Krista Sittler Wildlife Infometrics Inc. 250-997-5700 krista.sittler@ wildlifeinfometrics.com
Stellako River Spring Closure Evaluations & Creel Survey	7-481	This is the second year of a two-year study to evaluate whether the current angling season opening (Open June 1 – November 14) can be expanded to increase angling opportunities without having an impact on spawning rainbow trout. An additional component of this project includes a complimentary creel survey on the Stellako River following methods completed in 2017 (HCTF Project 7-482).	\$57,453.00	Ray Pillipow MFLNRO 250-565-6135 Ray.Pillipow@gov.bc.ca
Boreal Caribou Habitat Restoration in the Liard River Basin	7-490	This project builds on Fort Nelson First Nation's 2017 Boreal Caribou Action Plan to identify high priority areas for habitat restoration in the Liard River basin, an area which includes four of the five identified boreal caribou ranges in British Columbia. A detailed restoration plan, including site-specific prescriptions, will developed for one of these areas. Implementation in a pilot area (up to 1,000 ha), is targeted for 2019. The result of this work will be ongoing active restoration of the legacy industry footprint in boreal caribou habitat in the Liard Basin, and ongoing monitoring to determine how effective this work is for reversing boreal caribou population declines.	TBD**	Katherine Capot-Blanc Fort Nelson First Nation 250-774-6313 katherine.capotblanc@ fnnation.ca
Enhancing Chronic Wasting Disease Surveillance in the Peace	7-492	This project will enhance Chronic Wasting Disease surveillance in the Peace by engaging local communities, increasing awareness and improving sample numbers to reduce the risks and negative impacts of the disease on deer, elk, and moose and caribou populations in BC.	\$8,000.00	Helen Schwantje MFLNRO 250-953-4285 helen.schwantje@ gov.bc.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)

KlinseZa/Scott East Caribou Maternal Pen Health Evaluation	7-496	The Klinse-Za maternal penning project helped reverse the population decline in the herd. However, capturing and penning wild caribou has direct and indirect health consequences and little is known of their health overall. In this project, we propose to evaluate the baseline health characteristics of this herd, as well as identify positive and negative health effects of penning, across four key parameters: disease, stress, body condition, and diet.	\$24,436.00	Jason Lee Nun wa dee Stewardship Society 250-261-3887 jlee@nunwadee.ca
Sharp-tailed Grouse Population and Lek Habitat Monitoring	7-507	This project will re-initiate the monitoring of sharp-tailed grouse populations in the North and will quantify habitat characteristics of lek sites. Results of this project will contribute to management of the species and provide guidance to industrial proponents to minimize impacts to sharp-tailed grouse.	\$29,741.00	Alicia Woods Ridgeline Wildlife Enhancement 250-262-9630 alicia.woods@ wildlifeinfometrics.com
Mule Deer Monitoring in the Vanderhoof Area	7-508	The Vanderhoof Fish and Game Club (VF&GC) will continue a long-term monitoring program for mule deer within the wildlife management units surrounding Vanderhoof. With support from MFLNRO, bi-annual ground based surveys were started in 2010 conducted by local hunters/volunteers. This information has been key to documenting trends in fawn recruitment, sex ratios and buck age classes and has helped biologists and area hunters in making import management decisions. The funds used for these surveys leverage hundreds of volunteer hours each year, and provide valuable information used to inform management decisions.	\$3,000.00	Olin Albertson Nechako Valley Sporting Association 250-567-6618 oaalbertson@hotmail.com

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



# Approved Projects in the Okanagan

Project Name	Project #	Project Description	<b>Grant Amount</b>	Project Leader Contact Information
Promoting Voluntary Habitat Stewardship in the Okanagan & 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
Fisheries O&M - Okanagan	8-124	This request covers operations and maintenance of HCTF projects completed around the Okanagan Region. These include maintaining aerators on small lakes, dams and kokanee spawning habitat. The O&M budget is critical to sustaining important sport fisheries in the Okanagan region.	\$81,900.00	Tara White MFLNRO 250-490-2287 tara.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.	\$40,066.00	Karen Hodges University of British Columbia Okanagan 250-807-8763 karen.hodges@ubc.ca
Mule deer response to wildfire and habitat in southern British Columbia	8-408	This project will identify the effect of wildfire on mule deer habitat selection and population growth in the Boundary Region, West Okanagan, and Bonaparte Plateau areas of British Columbia, and provide management tools and recommendations to increase mule deer abundance.	\$95,585.00	Adam Ford University of British Columbia Okanagan 2508079773 atford@gmail.com
Quintal Floodplain (Year 2 of 3)	8-414	This Land Stewardship Grant will fund land management activities to establish healthy riparian zones alongside restored wetlands. Funding amount is over a three-year term.	\$45,000.00	Sarah Nathan Ducks Unlimited Canada 604-592-5009 s_nathan@ducks.ca
Efficacy of an Extended Release Formulation of Eprinomectin for Treatment of Psoroptic Mange in Bighorn Sheep	8-419	This proposal discusses the initiation of a pilot study on the treatment of <i>Psoroptes ovis</i> in bighorn sheep following a single treatment with fluralaner. It will involve treatment and monthly follow-up handling and sampling to evaluate treatment efficacy using naturally infested bighorn sheep in the Okanagan.	\$6,171.00	Adam Hering University of Saskatchewan 250-896-7974 Adam.hering@usask.ca

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)



Steelhead/	8-420	This project aims to determine the distribution and	TBD**	Kari Alex
Rainbow Trout distribution and baseline data in the South Okanagan		migration timing of anadromous steelhead trout and resident rainbow trout within the South Okanagan of BC. This project will also work towards improving our understanding of both the genetic baseline of this stock of fish as well as the marine origin and contributions to the population via stable isotope analysis.		Okanagan Nation Alliance 250-490-9779 kalex@syilx.org
Managing Psoroptes ovis 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.	\$23,750.00	Aaron Reid MFLNRO 250-354-6288 aaron.reid@gov.bc.ca
Kettle River Bass Assessment	8-427	The intent of this project is to confirm bass presence, species composition and distribution/scale of impact in the Kettle River Watershed. Project results will provide vital information to determine if there is a significant management concern, and, if so, help develop a management strategy to mitigate potential impacts on resident stocks (rainbow trout and speckled dace).	\$16,922.00	Tara White MFLNRO 250-490-2287 tara.white@gov.bc.ca
Mission Creek Restoration Initiative (MCRI)	8-428	The intent of this project is to conduct structural repairs/modifications to the Mission Creek Restoration site to ensure 2016 investments are maintained and restoration works function as intended. Project results will also provide management with science based information to determine if Mission Creek restoration works were an effective tool to recover regional fish stocks and improve the quality of the Okanagan Lake fishery.	\$54,480.00	Tara White MFLNRO 250-490-2287 tara.white@gov.bc.ca
Restoring Riparian Cottonwood of the Kettle River for Species at Risk	8-433	Our project will work to restore and/or enhance riparian cottonwood forests of the Kettle and Granby Rivers for the Lewis's Woodpecker our riparian ambassador. To compliment work on public lands we will work with private landowners to encourage stewardship and restoration as so much of this habitat type is privately owned.	\$24,560.00	Jenny Coleshill The Granby Wilderness Society 250-442-7969 jenny.coleshill@ granbywilderness.ca
Floodplain re- engagement & salmon spawning habitat enhancement in Penticton Channel	8-434	This project will construct two interconnected habitat restorations in the Penticton Channel section of Okanagan River: 1) creation of natural mainstream spawning and rearing areas for native salmonids (ORRI spawning beds); and 2) reconnection of the adjacent historic floodplain for native Rainbow Trout/Steelhead, Chinook and wildlife.	\$40,000.00**	Kari Alex Okanagan Nation Alliance 250-490-9779 kalex@syilx.org

<sup>\*\*</sup> Final Grant amount is subject to funding condition(s)