



# APPROVED PROJECT LIST

## 2013-2014

**Media Alert:** Members of the media are encouraged to contact project leaders directly: they have detailed knowledge of project benefits, may be able to arrange site tours, and often have high quality images available.

### Regional Project Index

|  |    |
|--|----|
| Multi Region (project crosses regional boundaries) ..... | 1  |
| Vancouver Island .....                                   | 4  |
| Lower Mainland.....                                      | 7  |
| Thompson Nicola .....                                    | 11 |
| Kootenay.....  | 14 |
| Cariboo .....  | 16 |
| Skeena.....  | 17 |
| Peace Omineca .....                                      | 18 |
| Okanagan .....   | 20 |

### Multi Region Projects

| Project Name                        | Project # | Project Description  | Approved Funding | Project Leader                |
|-------------------------------------|-----------|--|------------------|-------------------------------|
| Wild BC (Project Wild)              | 0-51      | Management of a family of environmental education programs and resource materials.   | \$218,008        | Kerrie Mortin<br>250-940-9787 |
| Public Conservation Assistance Fund | 0-94      | Funding to provide opportunities for local conservation groups to participate in and contribute to qualifying fish and wildlife conservation projects in their communities.  | \$150,000        | Lynne Bonner<br>250-940-9785  |
| BC's Family Fishing Weekend         | 0-229     | Occurring in BC's fresh and salt waters, the annual Father's Day weekend event is designed to (re) introduce youth and families to the outdoors and angling thereby increasing awareness, appreciation and understanding for marine and aquatic resources throughout the province of BC. | \$30,000         | Owen Bird<br>604-875-0104     |
| BC Wetland Partnership Program      | 0-247     | Ducks Unlimited Canada (DUC) will use funds to restore wetland habitat at four locations for the benefit of waterfowl and other wildlife, and conduct preliminary work in preparation for  | \$250,000        | Brad Arner<br>250-374-8307    |

|   |       |  |           |                                 |
|---|-------|--|-----------|---------------------------------|
|   |       | high-priority restoration projects.  |           |                                 |
| Crown Land Securement Program                                     | 0-339 | The Crown Land Securement Partner Program will assist the Ministry of Forest Lands & Natural Resource Operations with the designation of up to 16 new Wildlife Management Areas throughout BC to protect over 15,000 ha of critical fish and wildlife habitat over the next three to five years.   | \$35,000  | Tim Clermont<br>604-924-9771    |
| Vancouver Island Stream Enrichment-Application and Monitoring     | 0-343 | Four Vancouver Island Steelhead rivers (Harris Creek, Chemainus, Tsitika & Nimpkish rivers) will continue to be nutrient enriched to offset low marine survival & bolster stock productivity. Recent monitoring has confirmed primary productivity increases & suggests adult escapement has improved. This project will treat a 2nd generation of juvenile fish & confirm escapements.              | \$37,038  | Kevin Pellett<br>250-716-8776   |
| Angler Market Development Plan                                    | 0-353 | FFSBC will lead year 7 of the 10 year Angler Market Development Plan (AMDP) by continuing to support rod loan, urban fishing and mentorship programs aimed at new, lapsed and occasional anglers, and to implement and measure fishing licence renewal and compliance campaigns as well as angler research. The purpose is to increase angling licence sales by 30% by 2017.                         | \$150,000 | Don Peterson<br>250-414-4200    |
| BC Hinterlands Who's Where  | 0-368 | This project has filled many priority breeding bird data gaps in BC's hinterlands, through engaging hundreds of British Columbians in fun but responsible field science, and will now develop user-defined tools and products from those data that directly inform habitat and resource management, and educate the public.  | \$34,500  | Peter Davidson<br>604-940-4696  |
| Monitoring and Restoring Degraded Habitat for Coexisting Species. | 0-370 | Rehabilitate degraded habitat for improved survivorship of Western Painted Turtles at priority sites imminently threatened by extirpation through reducing mortality, restoring habitat quality and quantity and improving recruitment (nesting success/hatchling survival).   | \$9,000   | Kym Welstead<br>604-582-5279    |
| Young Naturalists' Club of BC: Nature Clubs Project               | 0-398 | The Nature Clubs Project gets children outside discovering nearby nature with a network of over 30 volunteer-led Nature Clubs across BC. Children aged 5-12 discover the wonders of the natural world as they explore the outdoors on Explorer day field trips, read about nature in NatureWILD magazine and take action for the environment with an Action Awards program and Stewardship Projects. | \$20,000  | Kristine Webber<br>604-985-3057 |
| White Sturgeon Questionnaire & Analysis                           | 0-406 | This third year of the project will use information provided by White Sturgeon recreational anglers and Licenced Angling Guides to report on White Sturgeon fishing  | \$31,900  | Duane Jesson<br>604-582-5303    |

|  |       |  |           |                                 |
|--|-------|--|-----------|---------------------------------|
|  |       | effort and catch in the Middle and Lower Fraser River of British Columbia.   |           |                                 |
| Habitat Use and Selection of Mule Deer Bucks in the Southern Interior Fraser River Basis | 0-412 | This project will provide crucial management information for mule deer in BC. Specifically, we will 1) examine fine-scale habitat use and selection of mule deer bucks during the rut to understand potential survey bias and 2) determine seasonal habitat use and migration patterns to develop appropriate harvest management strategies and refine modelled winter ranges  | \$41,580  | Chris Procter<br>250-371-6250   |
| Enhancing Angling Opportunities, Participation Rates and Licence Sales in BC Small Lakes | 0-435 | This program will determine the best management practices to increase fishing effort, participation and licence sales in the BC small lakes fishery. This will be accomplished through a series of experimental changes in current management practices distributed across the Okanagan, Thompson, Cariboo and Prince George regions, with assessments of angler effort response and fishing quality assessment.           | \$75,000  | Paul Askey<br>250-490-8267      |
| BC/TNT Joint Conservation Land Management  | 0-451 | The 2013-16 Wildlife O+M application package is the first comprehensive, province-wide wildlife O+M application using the new, joint MFLNRO/Nature Trust approach. Funding provided by HCTF will assist with the operation and maintenance of approximately 115 significant wildlife habitat areas across British Columbia.  | \$572,000 | Karen Wipond<br>250-387-9742    |
| Landscape Genetics Assessment of British Columbia - Southern Yukon Thinhorn Sheep        | 0-453 | This project will delineate genetically discrete herd management units of BC and southern Yukon cross-border thinhorn sheep populations in order to assist with harvest management and allocation, manage/mitigate resource development and anthropogenic impacts on herds, and support forensic investigations of illegal harvest.  | \$59,325  | David Coltman<br>780-492-7255   |
| Dock Placement to Enhance Youth & Family Sport Fisheries                                 | 0-454 | This project proposes to place docks on urban lakes in Regions 3, 5 & 8 allowing easy access for youth and families to experience recreational sport fisheries. These lakes will be managed as family fisheries and stocked yearly with catchable trout by FFSBC. In subsequent years the FFSBC Learn to Fish Program will provide educational programs (biology lessons and learn to fish techniques) at these locations. | \$50,000  | Stephen Maricle<br>250-371-6253 |
| Steelhead Harvest Analysis Modernization Initiative                                      | 0-455 | The Steelhead Harvest Analysis and mail-out survey have been relatively unchanged since 1967/68 and provide only standardized annual estimate of effort /catch for all angled steelhead rivers in BC. This project will transition the traditional mail-out approach to a much more efficient, cost-effective, web-based   | \$25,500  | Sue Pollard<br>250-387-3363     |

|   |       |  |          |                                 |
|---|-------|--|----------|---------------------------------|
|   |       | methodology.   |          |                                 |
| Investing in Conservation: Projects Funded by the Quality Waters Strategy (1996-2011) | 0-457 | The production of a report to describe the background, revenue history and project investments supported by BC's Quality Waters Strategy (QWS) as content for the HCTF web site and for use in possible print formats. The report will support HCTF's communications plan and complement other forms of project investment reporting by the Foundation.  | \$30,560 | Rod S. Silver<br>250-381-1008   |
| Fraser River White Sturgeon Online Handling Tutorial                                  | 0-463 | This project will create an online visual resource to educate anglers targeting Fraser River white sturgeon in proper handling practices. It will also provide modules for training new and continuing volunteers with the Fraser River Sturgeon Conservation Society's Monitoring and Assessment program.   | \$16,512 | Sarah Schreier<br>778-322-7345  |
| Wild/Domestic Sheep and Goat Separation   | 0-466 | Funding of a part-time provincial project coordinator to deliver a multi-stakeholder, government, First Nations programs to mitigate the risk of disease transmission from domestic sheep/goats to wild sheep using proven & novel site-specific mitigation methods, especially in high risk areas.  | \$45,000 | Helen Schwantje<br>250-953-4285 |
| Southeast BC Grizzly Bear Electric Fencing Project                                    | 0-467 | Grizzly bear/agricultural conflicts create very real and tangible threats for BC rural residents and threatened grizzly bear populations in low elevation habitats. Correctly installed and maintained electric fencing protects livestock and crops from bears and benefits both residents and grizzlies. This project provides education on preventing agricultural conflicts with grizzlies throughout SE BC and provides a 50% cost subsidy for electric fence equipment and installation in targeted areas. | \$16,950 | Gillian Sanders<br>250-353-1137 |
| Conservation of Large-Cavity Tree Resources for Priority Wildlife in BC               | 0-469 | The goal of this project is to identify and quantify factors influencing the rate and nature of decay and development of large cavities in standing trees, and use this information to develop effective management and mitigation approaches to help conserve this critical forest resource.  | \$20,000 | Richard Weir<br>250-356-8186    |

### **Vancouver Island Projects**

| <b>Project Name</b>                           | <b>Project #</b> | <b>Project Description</b>   | <b>Approved Funding</b> | <b>Project Leader</b>          |
|---|------------------|--|-------------------------|--------------------------------|
| Vancouver Island Conservation Land Management | 1-42             | Develop and implement securement, management, and enhancement plans for over 60 Vancouver Island Conservation Areas that protect rare and endangered ecosystems and the species that rely upon them. This year | \$30,000                | Ron Diederichs<br>250-751-3223 |

|  |       |  |           |                                 |
|--|-------|--|-----------|---------------------------------|
|  |       | will focus on 10 year reviews of 3 landscape level management plans: updating management direction documents for all conservation lands; coordinating land management projects including acquisitions with partner agencies and implementation of the recommendations of the partner strategic review.   |           |                                 |
| Fisheries Operations & Maintenance: Vancouver Island                 | 1-72  | Operation and 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.   | \$16,000  | Scott Silvestri<br>250-751-3128 |
| Keogh River Steelhead Population Dynamics                            | 1-319 | Monitor smolt emigration and adult the return of Steelhead in the Keogh River to evaluate success of habitat restoration and other conservation strategies for endangered Steelhead stocks, and to provide guidance on recreational fishery openings.  | \$107,000 | Tom Johnston<br>604-222-6754    |
| Vancouver Island Urban Lake Fishery Development/ Improvement Program | 1-457 | This multi-year program aims to increase angler participation on small urban lakes on Vancouver Island by identifying and implementing lake access and/or infrastructure projects that will create or enhance fishing opportunities on small urban lakes. Year 3 of 3 will focus on implementing projects at Blinkhorn, Prospect, Colwood, Thetis, Echo and/or several other Nanaimo area lakes.   | \$56,613  | Scott Silvestri<br>250-751-3128 |
| Englishman and Little Qualicum Estuary Restoration Pilots            | 1-506 | (1) Prototype LWD installation methods will be developed to minimize construction impacts on fragile estuary ecosystems; (2) inter-tidal channels, ponds and benches will be "complexed" with LWD structures; (3) an estuary re-vegetation plan will be fully implemented on the LQ Spit (LQ River Estuary Regional Conservation Area); and, (4) feasibility of a pilot dyke breaching project will be fully assessed in the LQ Estuary, within a private property, with the owner's active support. | \$45,000  | Craig Wightman<br>250-716-8776  |
| 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.  | \$39,100  | Tom Johnston<br>604-222-6754    |
| Good Neighbours Craigflower, Mt. Newton, & Tod Creek                 | 1-530 | The Good Neighbours project will work with residents of three important watersheds in the Greater Victoria area to help steward sensitive natural ecosystems to better support the fish and wildlife that rely on them.  | \$17,959  | Adam Taylor<br>250-995-2428     |
| Georgia Depression Western Bluebird Reintroduction                   | 1-538 | This project will re-establish a breeding population of Western Bluebirds to their historic range in the Georgia Depression,   | \$14,450  | Kathryn Martell<br>250-383-5449 |

|   |       |   |          |                                    |
|---|-------|---|----------|------------------------------------|
|   |       | 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.  |          |                                    |
| Langford Lake Aerator Replacement                               | 1-546 | This grant represents the second portion of HCTF's contribution to the installation of a new full lift hypolimnetic aeration system in Langford Lake. This new system will improve water quality and subsequently fish habitat in the lake to ensure preservation and enhancement of this valuable south island fishery.  | \$50,000 | Scott Silvestri<br>250-751-3128    |
| Englishman River Estuary Habitat Restoration Feasibility        | 1-563 | The bio-engineering feasibility of constructing a fish rearing side-channel to the lower Englishman River and potential dyke breach to re-establish a productive salt water marsh will be systematically investigated over a two-year period.   | \$11,390 | Craig Wightman<br>250-716-8776     |
| Tsolum River Recovery Planning Project                          | 1-564 | Seed funding to plan a project to develop a priority-based action plan for the Tsolum River to have active fishing opportunities in three to four years. A healthy, productive river ecosystem will assist all species to flourish providing habitats for feather, fur and fin and will protect biodiversity over the long-term.  | \$5,000  | Jack Minard<br>250-897-4670        |
| Vancouver Island Small Lakes Fertilization Pilots               | 1-572 | Two small lakes on Vancouver Island will be enriched and monitored using liquid nutrients to promote fish growth. Background data collection for other lakes on Vancouver Island will also be completed during the program to determine their suitability for future enrichment. Lakes will be stocked with an appropriate number of fish to produce "trophy" fisheries where none currently exist.   | \$23,493 | Jeremy Damborg<br>250-716-8776     |
| Conference Creek Watershed Restoration Project                  | 1-573 | This project will rehabilitate degraded riparian and instream habitat to revitalize cutthroat trout populations and wildlife populations, restore cutthroat trout spawning and rearing habitat in the Conference Creek Watershed, improve riparian habitat conditions to sustain a greater diversity of wildlife, and engage local community members, stewardship groups, anglers, First Nations and government in restoration and stewardship. | \$42,569 | Jessica Hutchinson<br>250-726-2424 |
| Goldstream River - Fish Habitat Assessment & Streamflow Targets | 1-574 | Working with CRD, local stewards, First Nations, & fish agencies, BCCF will evaluate, from a wild fish rearing perspective, the informal water releases from CRD reservoirs to Goldstream River, determine optimal base flows to support instream rearing, establish a permanent hydrometric station, and formalize minimum flow requirements.  | \$17,248 | James Craig<br>250-716-8776        |
| Designing Effective   | 1-577 | This project will test the effectiveness of   | \$8,450  | Barbara Beasley                    |



|   |       |  |         |                                       |
|---|-------|--|---------|---------------------------------------|
| Road Barriers to Protect Amphibian Populations                    |       | different materials and designs of barrier fences to protect five species of amphibians from road mortality. The results will be used to create permanent fencing at the amphibian tunnel on Highway 4 near Swan Lake, and at other road sites in BC where traffic threatens these amphibian populations.  |         | 250-726-2536                          |
| Establishing Wildlife Corridors Using Riparian Areas and Wetlands | 1-578 | This seed funding will be used in planning a project to establish a wildlife corridor from the biodiversity project at Haliburton Community Organic Farm to the Elk-Beaver Lake Regional Park, while at the same time restoring riparian areas, integrating green burial opportunities, mitigating road run off and providing learning and teaching opportunities in urban biodiversity conservation | \$5,000 | Purnima Govindarajulu<br>250-387-9755 |

### **Lower Mainland Projects**

| <b>Project Name</b>  | <b>Project #</b> | <b>Project Description</b>   | <b>Approved Funding</b> | <b>Project Leader</b>             |
|--|------------------|--|-------------------------|-----------------------------------|
| Coastal Mainland Roosevelt Elk Recovery and Management Project (CMRERMP)                           | 2-127            | With the assistance of a variety of partners, this project will continue efforts to translocate Roosevelt Elk in order to facilitate the recovery of this blue-listed species on the coastal mainland. Additionally, we will continue to provide increased recreational opportunities, while furthering the understanding of Roosevelt elk population dynamics.                | \$65,000                | Darryl Reynolds<br>604-885-7419   |
| City of Surrey - Salmon Habitat Restoration Program (SHaRP)  | 2-337            | SHaRP promotes watershed stewardship and performs habitat enhancement within Surrey through outreach programs and restoration work to improve fish habitat. SHaRP also provides youth with career-orientated experience in stewardship practices and community involvement.  | \$27,000                | Nina Mudhar<br>604-591-4383       |
| Provision of Waterfowl and Raptor Habitat within Managed Grasslands on Lower Fraser River Farmland | 2-349            | Over 1,200 ha of grassland habitat (Winter Cover Crops & Grassland Set-asides) will be established on farmland in Delta, BC through DF&WT's stewardship programs. The grasslands will provide feeding and roosting habitat for internationally important migratory waterfowl and raptors.  | \$20,000                | Christine Terpsma<br>604-940-3392 |
| Lower Fraser River White Sturgeon Monitoring and Assessment Program                                | 2-375            | This project continues the successful, stewardship-led white sturgeon stock monitoring and assessment activities established in 2000. This priority stock-recovery project delivers annual estimates of the population, and growth rates, by size group, of lower Fraser River white sturgeon. The products of this project are used by provincial authorities to conserve and | \$58,586                | Troy Nelson<br>778-322-7345       |

|  |       |   |          |                                  |
|--|-------|---|----------|----------------------------------|
|  |       | manage the resource.  |          |                                  |
| Stewardship of Wetland Habitats and Wildlife on the Sunshine Coast   | 2-388 | Funded activities included wetland mapping, assessment & prioritization; wildlife inventories, assessments and monitoring; identification of critical habitat features; outreach and education; habitat enhancement, habitat protection and threat mitigation through work with government, community groups & landowners.              | \$29,000 | Michelle Evelyn<br>604-886-1910  |
| Learn to Fish Program  | 2-390 | L2F is designed to break down barriers to recreational fishing and to introduce new anglers, particularly youth to the sport. HCTF funds will be used to deliver L2F programs at urban lakes and provincial parks. FFSBC with funding from HCTF and other partners aims to put 25,000 participants through L2F this year.               | \$80,000 | Mike Gass<br>250-414-4200        |
| Lower and Middle Fraser White Sturgeon Recovery Working Group Support                                      | 2-455 | Provision of supporting resources for the organization, operation and management of the Lower and Middle Fraser River Sturgeon Technical and Community Recovery Working Groups.   | \$8,249  | Erin Stoddard<br>604-582-5374    |
| South Coast Bat Conservation   | 2-458 | This project will improve bat conservation and stewardship on the south coast through identifying bat roosts and key bat habitat areas, monitoring bat populations on both private and protected land, providing education about bats, and working with land managers to improve stewardship and enhancement of bat habitat.            | \$29,640 | Joanne Neilson<br>604-576-1432   |
| Grizzly Bear Space-Use and Movements Relative to Habitat & Human Influence in the Sea to Sky Planning Area | 2-464 | This project will build databases of grizzly bear space-use and movements to subsequently develop multi-scale models of spatio-temporal response to factors of habitat and human influence. It will integrate and support outputs for application within population- and landscape-unit resource planning and environmental assessment. | \$40,000 | Clayton Apps<br>403-270-8663     |
| Cumulative Effects of Landuse on Salish Sucker   | 2-499 | This study will determine how cumulative effects of land use on stream habitat and water quality impact abundance and persistence of endangered Salish Sucker and native salmonids in the lower Fraser Valley, generating critical information to manage habitat and to anticipate the impacts of future landuse development.           | \$42,075 | Jordan Rosenfeld<br>604-222-6762 |
| Stock Reduction Analysis for Lower Fraser White Sturgeon   | 2-501 | Complete the evaluation of the SRA2004 and SRA2011 models and initiate the development of a multi-year Bayesian mark-recapture model to provide more precise and reliable estimates of recent population size for Lower Fraser White Sturgeon using all the available PIT tag data.   | \$46,071 | Karl English<br>250-656-0127     |



|  |       |   |          |                                 |
|--|-------|---|----------|---------------------------------|
| Mossom Creek Watershed Habitat Enhancement and Stewardship                             | 2-513 | This project involves habitat restoration and enhancement that will benefit fish and wildlife in the Mossom Creek watershed. This project also has a component of support for community involvement activities.   | \$10,000 | Rod MacVicar<br>604-939-1508    |
| Future Conservationists – Developing Stewardship through a Port Moody Salmonid Project | 2-514 | This project will support a high school field-based program that provides training for the next generation of conservation technicians and provides opportunities for the encouragement of youth volunteer stream stewards. The field centre for this project is the watershed of Mossom Creek in Port Moody.   | \$10,000 | Melanie Mattson<br>604-936-7205 |
| Upper Lillooet River Mountain Goat Census  | 2-515 | Conducting a census of Mountain Goats in the Lillooet River area Near Pemberton BC: this will generate population estimates that will inform stakeholders and management decisions.   | \$27,500 | Darryl Reynolds<br>604-885-7419 |
| Wetland Habitat Restoration in the Lower Mainland for Endangered Oregon Spotted Frogs  | 2-516 | Restoring connectivity between wetland habitats adjacent to an existing Oregon spotted frog population in Agassiz, BC. This will provide an additional 8 Ha of breeding and foraging habitat and will improve connectivity between new populations. This project also includes restoration of 2 Ha of marsh wetland habitat in Aldergrove in preparation for the eventual introduction of endangered Oregon spotted frogs into a historically occupied watershed. | \$33,931 | Joanne Neilson<br>604-576-1433  |
| Bertrand Creek Watershed Restoration Project   | 2-517 | This project will foster private land stewardship on properties adjacent to Bertrand Creek, raise citizen awareness of watershed issues, and enhance critical habitat for native and endangered species.  | \$18,526 | Nichole Marples<br>604-514-4550 |
| Using Remote Cameras to Detect the Relative Abundance of Wolverine                     | 2-519 | Remote cameras and hair snaggers will be used to detect the presence and relative abundance of wolverine ( <i>Gulo gulo</i> ) and other carnivore species in the South Coast.   | \$21,008 | Cliff Nietvelt<br>604-824-2310  |
| Stanley Park Salmonid Enhancement Planning   | 2-520 | This project will result in a comprehensive restoration plan for Beaver Creek, including surveys and maps of existing fish/wildlife values and vegetation and identification of major fish movement barriers. The goal is to enhance the creek's natural habitat to benefit salmonids and restore migration access upstream from Burrard Inlet.   | \$4,955  | Robyn Worcester<br>604-718-6523 |
| Evaluating White Sturgeon Spawning Habitat Quality Based on Larval Drift               | 2-522 | Baseline evaluation of white sturgeon larval drift patterns in the Herrling side channel will be used to evaluate the condition of spawning habitat. Evaluations will be based on ratio of drifting yolk sac larvae to feeding larvae, the physical and physiological condition of larvae, and comparison with  | \$60,650 | Steven McAdam<br>604-222-6760   |

|  |       |  |          |                                   |
|--|-------|--|----------|-----------------------------------|
|  |       | larvae from other spawning locations.  |          |                                   |
| Skagit River Underwater Surveys: Rainbow Trout-Char Population Trends  | 2-524 | The focus of this project is to perform underwater snorkel surveys in the upper Skagit River to enumerate rainbow trout and char species in order to maintain existing data gaps, identify population trends and inform regulatory agencies to assist in the management of populations that are currently undergoing rapid change.   | \$7,107  | Kerry Baird<br>604-576-1433       |
| Pemberton Reptile Survey and Implementing Best Management Practices  | 2-529 | The purpose of this project is to identify high value habitat and inventory sharp-tail snake, work with local government to provide information on the species and best management practices for development in sensitive habitat, and work proactively with the developer, to provide recommendations on layout, construction mitigation and potential compensation.  | \$15,090 | Veronica Woodruff<br>604-966-8229 |
| Lower Fraser White Sturgeon Telemetry Study: Long-Term Monitoring of Adult White Sturgeon Movement Activities. | 2-530 | A long-term ten year telemetry study monitoring mature adult white sturgeon habitat use through the acoustic tracking of individuals in over-wintering and spawning habitats to better understand use, timing and fidelity of use, and potential options for the mitigation or management of individual or habitat impacts.  | \$96,800 | Erin Stoddard<br>604-582-5374     |
| Updating the Fraser River Sturgeon Questionnaire to Better Inform Management                                   | 2-532 | We will review the content of the White Sturgeon Angling Questionnaire to reduce biases and improve information gained. We will restructure the questionnaire to provide data that will best support the pit tag program and will better inform management decisions.  | \$20,905 | Brett Van Poorten<br>604-222-6761 |
| New Brighton Park Estuary and Renfrew Creek Restoration  | 2-534 | This seed funding will support the development of a proposal to daylight Renfrew Creek through New Brighton Park to Burrard Inlet. Restoring native riparian, salt marsh, and subtidal vegetation will enhance habitat for cutthroat trout ( <i>Oncorhynchus clarkii clarkii</i> ). Cutthroat trout will be re-introduced from Capilano watershed.   | \$5,000  | Sarah Nathan<br>778-990-1572      |
| Roche Creek Estuary Assessment and Restoration Plan Development  | 2-535 | This seed funding will allow the creation of a stakeholder group to collaborate, assess and create a design for the Roche Creek estuary that will be used to seek funding in subsequent years to complete the restoration work. The land is currently going through a re-zoning process for the purpose of creating medium-density housing in and around the creek and estuary and the developer is looking for assistance to return this area to a natural and functioning ecosystem. A fully-functioning estuarine | \$5,000  | Kerry Baird<br>604-576-1433       |

|  |       |   |         |                               |
|--|-------|---|---------|-------------------------------|
|  |       | ecosystem including restored native vegetation will benefit numerous fish, bird and invertebrate species that rely on estuary habitat in various stages of their life cycle.  |         |                               |
| Mosquito Creek Estuary Restoration Plan            | 2-536 | This seed funding will be used to develop plans and partnerships to restore the tidal estuary of Mosquito Creek (Ustlawn) in North Vancouver to improve estuarine survival of coastal cutthroat trout, rainbow trout and other anadromous fish in Mosquito Creek.   | \$5,000 | Randall Lewis<br>604-982-0510 |
| Seymour River Estuary Restoration Project          | 2-539 | Seed funding to plan the Seymour River Estuary Restoration Project, focused on enhancing salmonid survivorship in the watershed by restoring the valuable rearing habitat within the estuary. Funds will go toward furthering research of the main stressors impacting the Seymour River Estuary salmonid populations, and the solutions that can be used to restore it to a natural condition. | \$5,000 | Erin Embley<br>604-451-6659   |
| Kwahulcha (Lynn Creek) Estuary Restoration Project | 2-541 | This seed funding will be used to develop a full proposal for the Kwahulcha Estuary Restoration Project. This project aims to restore the estuary to a naturally functioning ecosystem that supports cutthroat trout, steelhead and Pacific salmon in the creek, restores riparian habitat and educates public about the project and importance of estuaries.                                   | \$5,000 | Kerry Baird<br>604-576-1433   |

### **Thompson/ Nicola Projects**

| <b>Project Name</b>                                  | <b>Project #</b> | <b>Project Description</b>  | <b>Approved Funding</b> | <b>Project Leader</b>             |
|--|------------------|---|-------------------------|-----------------------------------|
| Fisheries Operations & Maintenance: 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                 | Brett Van Poorten<br>604-222-6761 |
| Fisheries Operations & Maintenance: Thompson-Nicola  | 3-94             | Operation & maintenance of existing lake aeration, stream diversions, outlet fence, open diversion ditches & dam structures that enhance the angling opportunities of high use lakes within the Thompson-Nicola region. | \$57,500                | Stephen Maricle<br>250-371-6253   |
| Fisheries Operations & Maintenance: Bonaparte        | 3-154            | Operation and maintenance of the Bonaparte Fishway and the Bonaparte Lake Dam.  | \$25,939                | Robert G. Bison<br>250-371-6244   |
| Thompson Region Invasive Fish Species Post Treatment | 3-193            | The objective of this project is to conduct follow up monitoring of rotenone treated watersheds, as well as to assess newly reported water bodies for the presence of   | \$24,973                | Andrew Klassen<br>250-371-6237    |

|   |       |  |          |                                  |
|---|-------|--|----------|----------------------------------|
| Assessment and Education  |       | spiny-ray fish and continue to educate the public about this important issue.  |          |                                  |
| Interior Fraser Wild Steelhead Conservation   | 3-251 | This project will monitor the abundance, recruitment and status of the four Steelhead stocks, including three Thompson River stocks. Data provided will be used as a basis for many initiatives aimed at conserving and improving the productivity of the stock including water management plans, regulation of streamflows and habitat restoration plans and projects.  | \$76,000 | Robert G. Bison<br>250-371-6244  |
| Shuswap Lake Angler Questionnaire   | 3-252 | By using creel surveys and mail-out questionnaires, this project will monitor the catch and effort for rainbow trout and lake char stocks. Includes collection of tag return data to support exploitation rates and allow for regulation evaluation to ensure sustainable fishing opportunities and angler satisfaction are being maintained.                            | \$16,668 | Andy Morris<br>250-371-6325      |
| Wetlands Institute of BC  | 3-272 | The Wetlands Institute workshop provides hands-on training to individuals and groups committed to wetland stewardship projects across the province. Following the Institute, participants are offered ongoing support to successfully complete their projects. This year's institute is scheduled for the West Kootenays.  | \$30,480 | Neil Fletcher<br>1-888-881-2293  |
| Quality Waters - 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 | Robert G. Bison<br>250-371-6244  |
| Population Trend, Vital Rates, and Habitat Condition of the Endangered Stein/Nahatlatch Grizzly Bear Population | 3-283 | This project aims to determine survival rates, reproduction, population trend, inter-population movements, habitat selection, and changes in the abundance of major food items for the endangered Stein/Nahatlatch and portions of the Threatened South Chilcotin grizzly bear populations to identify major limiting factors to prescribe appropriate recovery actions. | \$31,750 | Bruce McLellan<br>604-452-3233   |
| Community-Based Amphibian Monitoring Program in South-Central B.C.  | 3-313 | A collaborative monitoring program among volunteer community members, landowners, and scientists to identify and monitor important wetland habitats for amphibians and mitigate threats. Volunteers are trained in monitoring methods, and stewardship activities are initiated to promote practices that facilitate coexistence in multi-use landscapes.                | \$16,270 | Kristiina Ovaska<br>250-727-9708 |
| Thompson Sub-Region Water Conservation Structural   | 3-339 | Following up on the information gained during the HCTF-funded Water Use Strategy project, this project is designed to build, rebuild or improve existing weirs, diversions   | \$83,119 | Stephen Maricle<br>250-371-6253  |

|  |       |   |          |                                 |
|--|-------|---|----------|---------------------------------|
| Enhancement  |       | and ditches which will allow the province to license Conservation storage or significantly improve water delivery systems. These works will result in improving the quality of habitat and increasing the carrying capacity for trout rearing in a number of high use/high-priority small lakes within the Southern portions of the Thompson sub-region.  |          |                                 |
| Bleeker Lake - Winter Oxygen Injection   | 3-340 | This project is intended to increase overwinter trout survival in Bleeker Lake by maintaining oxygen levels under the ice. The new design will also reduce liability risk by aerating the lake without creating the open water conditions associated with the existing aeration system.   | \$81,780 | Andrew Klassen<br>250-371-6237  |
| Moose Habitat Selection and Mortality Risk in Relation to Salvage Logging on the Bonaparte Plateau | 3-342 | The Province faces a major management challenge in maintaining sustainable populations of moose in the Southern Interior given large-scale salvage logging of insect-killed timber. We propose a collaborative project to assess female moose habitat selection of landscapes heavily altered by timber salvage operations and how that relates to their mortality risk. The outcome of this research will greatly enhance the Province's understanding of factors affecting sustainable moose populations in the face of a rapidly changing forest landscape, as well as directly support the goals of HCTF. | \$45,609 | Dennis Jelinski<br>250-721-7968 |
| Implications of Rainbow Trout Production to Conservation Management of Thompson River Steelhead    | 3-343 | An assessment of the proportions of resident- and anadromous-origin fish in steelhead parr and adult steelhead and resident trout populations and an investigation of the potential implications to the derivation of management reference points for steelhead.  | \$33,302 | Robert G. Bison<br>250-371-6244 |
| Meadow Creek Golf Course Wetlands Restoration  | 3-344 | This project will improve the quality of the water flowing into Logan Lake and therefore, over the long run, the lake water quality and ecosystem. It will also restore and preserve these existing damaged wetlands to a more functional habitat for wildlife, and provide research and educational opportunities.   | \$39,185 | Jeff Carter<br>250-523-6225     |
| Shuswap Lake Shoreline Habitat Restoration   | 3-350 | Restoration of high-priority areas of sensitive fisheries habitat on Shuswap Lake to improve spawning habitat for lake char and rearing habitat for juvenile salmonids. This project will repair the damage caused by decades of unregulated residential and commercial foreshore development around the perimeter of the lake.   | \$39,300 | Andy Morris<br>250-371-6325     |

## Kootenay Projects

| Project Name  | Project # | Project Description  | Approved Funding | Project Leader                 |
|---|-----------|--|------------------|--------------------------------|
| Fisheries Operations & Maintenance: 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         | Matt Neufeld<br>250-354-6353   |
| Kootenay Lake Gerrard Rainbow Trout Conservation  | 4-248     | This project monitors the conservation status of Gerrard rainbow trout by enumerating and characterizing spawners, estimating harvests of these fish in the Kootenay Lake sport fishery, and monitoring critical spawning habitat parameters.  | \$34,000         | Matt Neufeld<br>250-354-6353   |
| East Kootenay Grassland Ecosystem Restoration   | 4-299     | Conduct Ecological Restoration planning, on the ground treatments, and pre- and post treatment monitoring activities for priority fire maintained ecosystems to restore and conserve habitats and the wildlife dependant on these areas.   | \$189,000        | Mike Gall<br>250-489-8594      |
| Kootenay Conservation Program   | 4-345     | To provide co-ordination and facilitation for partners to find win-win approaches to ecosystem conservation and stewardship on private land throughout the Kootenay Region   | \$30,000         | Dave Hillary<br>250-688-1508   |
| Kootenay Lake Exploitation Study  | 4-413     | This is a 6-year study to estimate the proportion of large rainbow trout and bull trout in Kootenay Lake that are caught by anglers vs. die of natural causes. The project, which has implications for the management of large lake fisheries in BC, is also providing valuable information on fish life history and habitat use in Kootenay Lake. | \$12,000         | Joseph Thorley<br>250-352-6369 |
| Quality Waters - Kootenay Region  | 4-444     | River Guardian Sub-Program/Kootenay Regional Quality Waters Management Committee Sub-Program   | \$72,000         | Kevin Heidt<br>250-489-8556    |
| Long-Term Implications of food and Mortality on the Population Ecology of Grizzly Bears | 4-450     | We will monitor grizzly bear reproduction, female survival, causes of mortality, movements and annual huckleberry production (an important bear food) as part of a long-term (33 years) study of grizzly bear population ecology on a managed landscape.   | \$24,000         | Garth Mowat<br>250-356-6341    |
| Boundary Ecosystem Restoration  | 4-461     | This project will improve habitat quality, resiliency and forage availability for ungulates and other native species by restoring degraded habitats in low elevation ecosystems of the Boundary. This project also aims to build community stewardship and technical capacity through the use of partnerships.                                     | \$171,130        | Lisa Tedesco<br>250-354-6352   |
| Kootenay Lake Bull  | 4-465     | Provide informative quantitative data on   | \$47,340         | Greg Andrusak                  |



|   |       |  |          |                                    |
|---|-------|--|----------|------------------------------------|
| Trout Productivity and Capacity   |       | stock dynamics to assist with managing the bull trout fishery on Kootenay Lake. Defining the productivity, capacity and compensatory ability of this stock will assist in better understanding the rearing environment and the impact of the recreational fishing on this important blue listed species  |          | 250-825-2729                       |
| Reintroduction of Sharp-Tailed Grouse to Wycliffe and Teck Lands                      | 4-476 | After two years of feasibility study, which included field visits, data collection and discussions among members of the Sharp-tailed Grouse Scientific Advisory Team, reintroduction of these birds to their historic area of occupation at Wycliffe, near Kimberley, BC, has been deemed feasible. A detailed Reintroduction Action Plan is under development and will be submitted this fall for the planned 2014 transplant.  | \$18,060 | Penny Ohanjanian<br>250-427-5262   |
| Determination of Gerrard Rainbow Trout Parr Productivity and Capacity                 | 4-478 | This project will provide informative, quantitative data on stock dynamics to assist with managing the "trophy" Gerrard rainbow trout fishery on Kootenay Lake. Defining the reproductive performance and capacity of this stock will assist in better understanding the rearing environment and the impact of the recreational fishery on this unique ecotype.  | \$43,900 | Greg Andrusak<br>250-825-2729      |
| Assessing Predation Risk From Wolves And Cougars For Caribou In The Purcell Mountains | 4-485 | Mountain Caribou are classified as Threatened. As part of the Mountain Caribou Recovery Implementation Program, the Purcells -South herd, which is facing extirpation, have been augmented by translocating 19 northern caribou. We are providing critical information on risk of predation by wolves and cougars to gauge success of this translocation, as well as inform future herd augmentations. Most significantly, in year 1 we have established that the northern caribou move (travel) much more than resident caribou, and hence are at greater risk. | \$18,000 | Dennis Jelinski<br>250-721-7968    |
| Habitat Assessment for Grizzlies in Threatened Selkirk and Purcell GPBUs              | 4-495 | This project will assess habitat quality and security for grizzly bears and their effects on reproductive success in 2 threatened grizzly bear populations units. Our results will provide insight into the potential role of access management on recovery of threatened grizzly bear populations in BC.  | \$33,000 | Michael Proctor<br>250-353-7339    |
| Enhancing Marten and Weasel Habitat on Clearcuts                                      | 4-496 | Investigate the use of windrows of post-harvest woody debris as habitat for marten and weasels on new clearcuts. In particular, the connectivity across clearcut openings, from adjacent forest to adjacent forest, will be assessed for prey species and use by these mustelids.  | \$15,000 | Thomas P. Sullivan<br>250-494-7160 |

|  |       |   |          |                               |
|--|-------|---|----------|-------------------------------|
| Whatshan Reservoir Kokanee Enhancement                             | 4-504 | This project is designed to provide kokanee and limnological data from Whatshan Reservoir prior to bio-manipulating the kokanee spawning population to increase kokanee size with the benefit of increasing the angling potential and opportunity.  | \$29,524 | Greg Andrusak<br>250-825-2729 |
| Confirming Location of Ungulate Mineral Licks in the East Kootenay | 4-506 | An ungulate mineral lick database was established by Fish and Wildlife Compensation Program (FWCP) in 2000 and updated in 2006 by Ministry of Environment. We would like to update this database by contacting knowledgeable individuals for new locations of mineral licks. We would prioritize the importance of these licks and field-verify their locations | \$15,500 | Peter Holmes<br>250-342-4269  |
| Development of a Kootenay Mule Deer Research Study Design          | 4-510 | Work with stakeholders and partners to identify mule deer research priorities in the Kootenay Region, develop a peer-reviewed study design and prepare funding proposals. The research will focus on mule deer population declines in the region, potential effects of hunting seasons, and/or the efficacy of current monitoring methods.                      | \$8,500  | Tara Szkorupa<br>250-489-8553 |

## **Cariboo Projects**

| <b>Project Name</b>  | <b>Project #</b> | <b>Project Description</b>   | <b>Approved Funding</b> | <b>Project Leader</b>         |
|--|------------------|--|-------------------------|-------------------------------|
| Fisheries Operations & Maintenance: 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                | Todd Gale<br>250-398-4555     |
| Mid-Fraser River White Sturgeon Radio Telemetry Program                  | 5-196            | Identify important habitats (e.g., spawning, overwintering, etc.) and areas to be protected from future development. Outline important habitat features. Identify key migration routes and timing.   | \$16,200                | Lee Williston<br>250-398-4696 |
| Habitat use and population monitoring of the Itcha-Ilgachuz caribou herd | 5-230            | Project will assess whether the Itcha-Ilgachuz caribou population has declined or changed habitat use and distribution in response to Mountain Pine Beetle epidemic, using collared caribou. 12 GPS collars will be monitored over 3 years for habitat use/distribution and 32 VHF collars will provide a marked sample for June 2012 population and March 2013 recruitment surveys. | \$25,000                | Chris Nowotny<br>250-398-4540 |
| 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   | \$71,920                | Lee Williston<br>250-398-4696 |

|   |       |   |          |                                |
|---|-------|---|----------|--------------------------------|
|   |       | Dean River angling management plan.   |          |                                |
| Monitoring grizzlies in Heiltsuk Territory to inform management/increase local capacity | 5-241 | Non-invasive DNA capture-recapture methods to monitor population trends of coastal grizzly bears in Heiltsuk Territory and identify ecological drivers of coastal grizzly bear demographics. This project informs provincial and local First Nations management and simultaneously develops wildlife conservation capacity for local community members.                   | \$40,000 | Chris Darimont<br>250-721-7349 |
| Quesnel Lake Angler Exploitation Study  | 5-271 | This is 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.   | \$83,350 | Lee Williston<br>250-398-4696  |
| Junction and Churn Creek California Bighorn Sheep Recovery                              | 5-273 | Evaluation of the status of and threats to the Junction, Churn Creek, and Churn/Camelsfoot California Bighorn Sheep sub-populations. Initiate the development of a comprehensive, herd-specific species Recovery Plan and prepare full Enhancement Project proposals the main objective of which will be to implement enhancement actions specified in the Recovery Plan. | \$34,800 | Chris Barker<br>1-800-661-1981 |

## **Skeena Projects**

| <b>Project Name</b>   | <b>Project #</b> | <b>Project Description</b>   | <b>Approved Funding</b> | <b>Project Leader</b>            |
|---|------------------|--|-------------------------|----------------------------------|
| Skeena Weirs & Steelhead Stock Assessment                                       | 6-97             | Operate a fish enumeration weir on the upper Sustut River for the 21st consecutive year to determine the escapement of wild summer steelhead to this system; the Sustut weir serves as an index stream for upper Skeena steelhead stocks.  | \$68,000                | Mark Beere<br>250-847-7297       |
| Assessment of Lake Trout Population Abundance by Summer Profundal Index Netting | 6-209            | This project will collect accurate relative abundance and demographic data for 20 road-accessible lake trout populations in the Skeena and Nechako watersheds to improve interpretation of the status of the stocks and maintain quality recreational opportunities by appropriate angling regulations | \$20,275                | Joe De Gisi<br>250-847-7288      |
| Skeena River Guardian Project   | 6-213            | River guardian project in the Skeena watershed. Monitoring regulation changes on Classified Waters including the Bulkley, Kispiox and Zymoetz (first priority) and Babine, Morice, Skeena IV, Kitsumkalum and Lakelse (secondary priority).  | \$95,360                | Paddy Hirshfield<br>250-387-3978 |

|   |       |   |           |                                   |
|---|-------|---|-----------|-----------------------------------|
| Terrestrial Habitat Requirements of Coastal Tailed Frogs in Northwest BC      | 6-224 | This project will use radio-telemetry, in conjunction with more traditional survey methods, to describe the seasonal terrestrial habitat requirements and movement patterns of post-metamorphic tailed frogs at multiple spatial scales. Results will improve headwater, riparian management for forestry, urban, and run-of-river hydro developments.  | \$45,545  | Melissa Todd<br>250-751-3132      |
| Restoring Whitebark Pine Ecosystems to Enhance Subalpine Grizzly Bear Habitat | 6-227 | This project will continue to restore endangered whitebark pine ecosystems with high habitat potential for grizzly and black bears. Seeds collected from apparently disease-resistant whitebark pine trees are used to grow nursery seedlings. We will plant seeds and seedlings in burned and mountain pine beetle areas that will otherwise regenerate to species of lower habitat-value.     | \$5,000   | Sybille Haeussler<br>250-847-6082 |
| Kitimat River Cutthroat Trout Behavioral Assessments                          | 6-231 | Through the use of radio telemetry and genetic analyses, project leaders will: (1) identify areas of Kitimat cutthroat reproduction for stock assessment, habitat protection and restoration; (2) delineate key overwintering areas and behaviours; (3) evaluate migration behaviours and fishery exposure; (4) genetically estimate population structure; (5) rationalize angling regulations. | \$102,586 | Jeff Lough<br>250-847-7337        |
| Juvenile Sooty Grouse Dispersal and Winter Survival on Haida Gwaii            | 6-235 | On Haida Gwaii, the number of Sooty Grouse appears to have declined dramatically over the past 100 years, and a low rate of juvenile recruitment is a potential factor. This project will assess if forest fragmentation or hunter harvest are resulting in low juvenile recruitment.   | \$39,934  | Frank Doyle<br>250-847-3252       |
| Impacts of Recreation and Wolves on Telkwa Caribou Recovery.                  | 6-236 | The Telkwa caribou herd is declining to extirpation. This project will examine causes of the decline including displacement by winter recreation and predation by wolves. An adaptive management framework will allow quantification of impacts. GPS and web-based technologies will increase awareness and reduce recreational impacts to caribou.   | \$85,900  | Conrad Thiessen<br>250-787-3287   |

### **Peace/ Omineca Projects**

| <b>Project Name</b> | <b>Project #</b> | <b>Project Description</b>   | <b>Approved Funding</b> | <b>Project Leader</b>          |
|---------------------|------------------|--|-------------------------|--------------------------------|
| Peace-Liard Burns   | 7-12             | A prescribed burning program to maintain and enhance early seral habitats to support winter range for a multitude of ungulate species in the northeast British Columbia. | \$100,000               | Alicia Goddard<br>250-787-3369 |

|   |       |   |          |                                 |
|---|-------|---|----------|---------------------------------|
| Fisheries Operations & Maintenance: 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.   | \$25,200 | Julie Kline<br>250-787-3294     |
| Nechako River Bull Trout Distribution Evaluations   | 7-386 | By tagging bull trout at spawning tributaries to determine the proportional contribution and source of bull trout overwintering in the Nechako River, this project hopes to evaluate the potential for limited bull trout retention on this river.  | \$89,237 | Ray Pillipow<br>250-614-9914    |
| Herd Boundary Refinement for the Chase, Spatsizi, and Frog Caribou Herds                              | 7-394 | This project will refine current caribou herd boundaries to include an area in north-central BC where current provincial inventory is recorded as "trace occurrence" yet our research indicates numbers of caribou that exceed many of the identified herds in BC.  | \$59,392 | Scott McNay<br>250-997-5700     |
| Understanding the Cumulative Effects of Landscape Change for Distribution and Abundance of Furbearers | 7-399 | Use of expert knowledge and harvest data to better understand the implications of landscape change for the distribution and abundance of furbearers across central British Columbia. Working with trappers and biologists, we will develop expert-based habitat models that represent changes in the availability of habitats for three furbearer species sensitive to forest change and industrial development.      | \$29,654 | Chris Johnson<br>250-960-5357   |
| Efficacy Of UWR's And Survey Optimization for Bighorn Sheep in MU 7-19                                | 7-400 | Seasonal range delineation and modification of current UWR's to provide secure winter habitat for the most northerly herd of bighorn sheep in North America. Will include joint BC/AB population monitoring and calculation of sightability correction factor that can be applied to other northern bighorn sheep populations.  | \$21,000 | Daniel Lirette<br>250-398-4258  |
| Ungulate Winter Replicate Count   | 7-411 | This project application is a result of a court awarded fund from court case # 28887-1 and is partnered with internal funding. The replicate block count will help quantify the immediate effects of severe winters and changes in hunting regulations on ungulate population numbers and demographics, as well as to monitor future changes of mule deer, white-tailed deer, elk and moose in the agricultural zone. | \$3,700  | Julie Kline<br>250-787-3294     |
| Marten Population Responses to Accelerated Salvage Logging in Mountain Pine Beetle Affected Stands    | 7-412 | We will investigate the response of American marten ( <i>Martes americana</i> ) populations to habitat changes associated with accelerated logging operations. We will employ a multi-scale approach using marked individuals to measure spatial dynamics and habitat use of marten at a finer scale and occupancy modeling using non-invasive techniques to  | \$52,750 | Shannon Crowley<br>778-978-0117 |

|   |       |  |          |                                 |
|---|-------|--|----------|---------------------------------|
|   |       | measure changes at a broader scale.  |          |                                 |
| Omineca Ecosystem Restoration Strategic Planning and Implementation                             | 7-414 | This work builds on the ecosystem restoration work being conducted in the Vanderhoof and Fort St. James Districts to manage the structure and function of vulnerable ecosystems to achieve a desired future condition that will sustain ecological services and human socio-economic needs.  | \$77,356 | Larry McCulloch<br>250-847-3267 |
| 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 goats, so that a sustainable harvest rate can be applied for each PMU, resulting in increased hunting opportunities in the Peace Region.   | \$65,000 | Alicia Goddard<br>250-787-3369  |
| Enhanced Monitoring of the Moberly Lake Trout Rehabilitation                                    | 7-416 | FLNRO is proposing a 5 year enhanced monitoring program on Moberly lake to rigorously evaluate the effectiveness of the lake trout recovery efforts and the response of the larger fish community. An intensive mark-recapture netting program will be used to determine the total population and spawning population estimates for the remnant lake trout population and the survival and condition of rehabilitative cohorts. Shifts in the lake whitefish population will be tracked using a hydroacoustic and trawl/netting program. | \$17,310 | Lynn Avis<br>250-261-2096       |
| Prescribed Burns to Enhance Ungulate Habitat in the Williston Regional Area of North-Central BC | 7-417 | Year 1 of a 5-year prescribed burning program used to enhance ungulate habitat in selected Resource Management Zones within the Williston regional area of north-central BC.   | \$73,184 | Jordy McAuley<br>250-483-3857   |
| Charlie Lake Walleye Monitoring Program   | 7-419 | The Charlie Lake walleye fishery is one of Region 7B highest use fisheries, however little is known about the effect of fishing effort on populations or the likelihood of sustainability. FLNRO intends to continue the biennial fall Walleye Index Netting program to monitor the walleye population and structure. This study will allow for sound science based management of the Charlie lake walleye population and ensure the maintenance of this important fishery.  | \$10,400 | Lynn Avis<br>(250) 261-2096     |
| Conservation Measures for Liard Plateau Caribou   | 7-421 | Completion of a project proposing herd-based conservation measures for a small, isolated and currently unprotected herd of northern caribou.   | \$16,099 | Scott McNay<br>250-997-5700     |

## **Okanagan Projects**



| Project Name  | Project # | Project Description  | Approved Funding | Project Leader                |
|---|-----------|--|------------------|-------------------------------|
| Fisheries Operations & Maintenance: Okanagan                    | 8-124     | Operation and maintenance of HCTF fisheries projects completed around the Okanagan region, including aerator operation at Burnell, Kidd, Yellow, Gardom and Martins Lakes, dam maintenance on 14 Okanagan lakes, and maintenance of fishways, spawning channels, and other restoration structures.                               | \$84,500         | Tara White<br>250-490-2287    |
| Okanagan River Restoration Initiative - Phase II (Wier-VDS 13)  | 8-319     | Vertical Drop Structure 13 (VDS13) is a man-made weir located within the most critical reach of Okanagan River. A team of engineers, hydrologists and biologists have identified cost effective ways to modify it that would enhance trout and salmon habitat and improve its flood control function.                            | \$28,095         | Kari Alex<br>250-490-9779     |
| Mission Creek Restoration Initiative                            | 8-320     | Retain a Project Coordinator to facilitate a multi-year, multi-stakeholder initiative (MCRI) whose objective is to acquire strategic properties adjacent to Mission Creek, set back the sub-standard flood control dykes from their current location and restore the fish and wildlife habitat for key species at risk.          | \$20,000         | Tara White<br>250-490-2287    |
| Kettle River Stock Assessment                                   | 8-324     | This funding will allow continuation of stock assessment work (snorkel surveys) that provides important time series data, especially during low flow years. Results from this survey will be reviewed by the Kootenay fisheries staff.   | \$17,875         | Tara White<br>250-490-2287    |
| SOSCP Habitat Conservation Delivery                             | 8-349     | Fish and wildlife habitat conservation and protection through a collaborative partnership model focused on implementation of the Regional Biodiversity Conservation Strategy, key local and regional government environmental planning initiatives and leveraging of resources within the South Okanagan Similkameen Region.     | \$30,000         | Sandy Croteau<br>250-492-0237 |
| Middle Vernon Creek Action Plan                                 | 8-366     | The Middle Vernon Creek Action Plan aims to ensure sustainability of Canada's top kokanee fishery, Wood Lake, by securing a consistent water supply for the primary spawning tributary, Middle Vernon Creek.   | \$60,775         | Paul Askey<br>250-490-8267    |
| Okanagan River Restoration Initiative - Phase II (side channel) | 8-369     | This project will fund creation of a naturally-forested river side channel (380m long) re-connecting the mainstem of the Okanagan River to its historic (prior channelization) river pathway. This will increase fish habitat complexity, provide rearing habitat for Rainbow/Steelhead and spawning habitat for Sockeye Salmon. | \$30,998         | Kari Alex<br>250-490-9779     |

|   |       |   |          |                                |
|---|-------|---|----------|--------------------------------|
| Wildlife Tree Stewardship Program in the Okanagan-Similkameen | 8-374 | This 3-year project focuses on the conservation and recovery of four bird species at risk that are dependent on wildlife trees. Wildlife tree habitat will be effectively managed through the application of a Decision Support Tool for local government, site visits with private landowners and the installation of signs to reduce illegal firewood cutting.          | \$5,000  | Lisa Scott<br>604-985-3057     |
| Penticton Creek Restoration Initiative                        | 8-379 | This project is focused on improving kokanee and rainbow trout habitat in Penticton Creek, with the aim of increasing fish production contributions to Okanagan Lake, and the associated recreational fishery, as well as enhancing economic and natural values for the local community.  | \$63,680 | Anthony Haddad<br>250-490-2400 |
| Long-Term Fish Access Through Shuttleworth Creek              | 8-382 | Re-designing the sediment basin will provide fish passage year-round by introducing a pool-riffle sequence within this section and restoring stream functions and habitat. This is only possible with the completion of a diversion removal project on upper Shuttleworth Creek which will restore fish flows within the creek. This diversion project has already begun. | \$51,844 | Kari Alex<br>250-490-9779      |