FWCP Fish & Wildlife COMPENSATION PROGRAM fwcp.ca

FWCP Peace Region
2016-17 Fish and Wildlife Project Summary

	Project ID	2016-17 FWCP Peace Region Grant-Based Fish Projects		Sub-Region	Project Lead	FWCP Funding	Action Plan Alignment	Project Type
1	PEA-F17-F-1426	**Hosting Discussions With UNBC: Colloquium Series**	**Peace Fish and Wildlife Compensation Program Colloquium**: This project provides an education and outreach venue for creating connections and developing relationships with those who have an interest in the area. These events are opportunities to share knowledge and expertise being developed in, or that could be applied to, the Peace Region. The project will consist of a series of three invited speaker events, which will take place in the fall, winter and spring of each year.	Basin-Wide	University of Northern British Columbia (UNBC)	$16,920.00	Peace Basin Plan (Section 4.3)	Research & Informaiton Acquisition
2	PEA-F17-F-1475	**Monitoring Bull Trout Spawner Abundance in Williston Reservoir**	**Williston Reservoir Bull Trout Spawner Abundance Monitoring:** This project has three recommended options: 1) the core proposal consisting of redd counts in the established annual index reaches; 2) a recommended expansion of the redd count program to two-to-three new index sections in the Davis River, and two index sections in the Anzac River, to increase reliability of the surveys and increase First Nations training and employment; and 3) an application of the aerial redd count methodology (successfully applied to the Davis River in 2015) to the Ingenika River Watershed, to identify critical spawning habitats and estimate Bull Trout population size.	Basin-Wide	Ministry of Forests, Lands and Natural Resource Operations	$64,277.00	Streams Action Plan	Monitoring & Evaluation
3	PEA-F17-F-1468	**Monitoring Fish Habitat Structures Along Dinosaur Reservoir Shoreline**	**Dinosaur Reservoir Shoreline Enhancement Structure Monitoring**: Between 2002 and 2007, FWCP's Peace Region installed 84 shoreline enhancement structures throughout Dinosaur Reservoir. This project will conduct an annual inventory of the enhancement structures to confirm structure integrity and safety, and take corrective measures, as needed.	Dinosaur	Diversified Environmental Services	$7,679.20	Reservoirs Action Plan	Habitat-Based Actions
4	PEA-F17-F-1470	**Assessing Bull Trout in Gething Creek**	**Gething Creek Bull Trout Assessment**: Large-bodied adfluvial Bull Trout residing in Dinosaur Reservoir use Gething Creek to spawn each fall. In 2015, attempts to capture Bull Trout in the plunge pool at the base of Gething Creek falls, where these fish congregate prior to spawning, failed to capture any pre-spawn Bull Trout. This project proposes to repeat the sampling in fall 2016, in an attempt to confirm whether the 2015 sampling results were an anomaly, or if the trend toward extirpation of this population is indeed real.	Dinosaur	Diversified Environmental Services	$9,216.00	Streams Action Plan	Research & Informaiton Acquisition
5	PEA-F17-F-1471	**Understanding Nutrients and Kokanee in Williston Reservoir**	**Ecosystem Impact-Nutrient Enrichment by Kokanee in Williston**: Williston Reservoir and its tributaries are highly nutrient-limited. Previous attempts to increase productivity through fertilization had only limited success. The introduction of Kokanee, however, has the potential to greatly change nutrient dynamics. From 1990 to 1998, over 3,000,000 Kokanee were stocked into rivers that flow into Williston Reservoir. Aerial counts a decade later showed major runs in the Finlay, Ingenika, Omineca, Ossilinka, and Germanson Rivers.	Finlay	University of Northern British Columbia (UNBC)	$83,823.60	Streams Action Plan	Research & Informaiton Acquisition
6	PEA-F17-F-1384	**Developing Priorities for Angling on Nak'azkli Traditional Territory**	**Prioritize Enhancement Opportunities for Fish: Nation River**: Ecofor will work with the Nak'azdli First Nation, local fishing groups and other agencies, to prioritize species, habitats, locations and methods for sustenance and angling use enhancement opportunities within the Nak'azdli traditional territory. This project will also gather local knowledge on the use of sepcific areas by wildlife within the Nation and Manson River areas. This pilot project will provide the foundation to develop habitat-based actions for enhancement opportunities.	Parsnip	Ecofor Consulting BC Ltd.	$20,000.00	Streams Action Plan	Habitat-Based Actions

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7	PEA-F17-F-1449	**Identifying Critical Bull Trout Spawning Zones**	**Peace: Identification of Critical Bull Trout Spawning Zones:** This project will provide preliminary information about adfluvial Bull Trout spawning zones in tributaries of the Peace Reach of Williston Reservoir, and will augment baseline information for future long-term monitoring of adfluvial Bull Trout abundance and population trends in the Williston Basin. Information derived from this project will be used for planning and implementation of future Bull Trout spawning surveys in Peace Reach tributaries.	Peace	Diversified Environmental Services	$23,995.20	Streams Action Plan	Research & Informaiton Acquisition
8	PEA-F17-F-1472	**Studying Lake Trout Movements in Peace Reach**	**Peace Reach Lake Trout Movements**: Williston Reservoir has seen a dramatic increase in Lake Trout abundance in the past decade, however, no information is available on the movements, life history, and reproductive behavior of these fish. This project involves implanting 40 acoustic transmitter tags in adult Lake Trout within the Peace Reach of Williston Reservoir, and the subsequent monitoring of fish movements using an array of 28 acoustic hydrophone receiver stations, already deployed and maintained by a fisheries research team from Carleton University.	Peace	Diversified Environmental Services	$76,080.80	Reservoirs Action Plan	Research & Informaiton Acquisition
					Fish Project Total:	**$301,991.80**		

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9	PEA-F17-W-1310	**Supporting Amphibians in Wetlands Along Williston Reservoir**	**Amphibian Wetland Connectivity Along the Williston Reservoir**: This project is designed to investigate and manage wetland and riparian habitats as they relate to the distribution, functional ecology, and spatial demographics of amphibians. Six locations are targeted in this study: 1) Middle Creek area, 2) Six Mile and Lamonti Creek, 3) Factor Ross, 4) Ole Creek, 5) Finlay River, and 6) Chuchi Lake.	Basin-Wide	DWB Consulting Services Ltd.	$69,617.00	Species of Interest Action Plan	Species-Based Actions
10	PEA-F17-W-1315	**Supporting Caribou by Studying Forage Lichens**	**Effects of Logging and MPB on Caribou Forage Lichens**: This project assesses the effects of Mountain Pine Beetles (MPB) and forest harvesting on caribou terrestrial forage lichens on the Chase, Wolverine and Scott Caribou winter ranges.	Basin-Wide	Wildlife Infometrics Inc.	$56,100.00	Species of Interest Action Plan	Monitoring & Evaluation
11	PEA-F17-W-1463	**Improving Wildlife Connectivity in the Peace Region**	**Mitigating Wildlife Migration Barriers in the Peace Basin**: This project will seek to restore connectivity in the Peace Basin, which has been heavily disrupted by hydroelectric reservoirs and related construction, by identifying hotspots of wildlife-vehicle collisions and potential collisions, and making recommendations for cost-effective mitigation solutions.	Basin-Wide	Yellowstone to Yukon Conservation Initiative Foundation	$36,824.00	Species of Interest Action Plan	Research & Informaiton Acquisition
12	PEA-F17-W-1223	**Restoring Terrestrial Lichen for Threatened Northern Mountain Caribou**	**Northern Mountain Caribou Post-Fire Habitat Restoration**: Northern Caribou are specialists that require mature upland habitat with an abundance of terrestrial lichen. These lichen serve as a critical food source in the winter. The goal of this project is to restore terrestrial lichen populations in the area of the Chase herd that was burned by wildfire in 2014, with the intention to seed forage lichen in the burned region.	Finlay	Chu Cho Environmental	$36,683.45	Species of Interest Action Plan	Habitat-Based Actions
13	PEA-F17-W-1345	**Assessing Threatened Caribou Population**	**Population Assessment for the Wolverine Caribou Herd**: This project will provide up-to-date population information on the Wolverine Caribou herd by providing information on the current mortality rates, main causes of mortality, and the pattern and rate of recruitment. In late-winter 2016, 30 GPS radio-collars will be deployed on adult female caribou in the Wolverine range and a population census will be conducted. The GPS-collars are expected to function for three years.	Finlay	Ministry of Forests, Lands and Natural Resource Operations	$91,718.00	Species of Interest Action Plan	Monitoring & Evaluation

FWCP Fish & Wildlife COMPENSATION PROGRAM fwcp.ca

FWCP Peace Region
2016-17 Fish and Wildlife Project Summary

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14	PEA-F17-W-1481	**Enhancing Ungulate Habitat With Prescribed Burns**	**Prescribed Burns to Enhance Ungulate Habitat in North Central B.C.**: This project will use prescribed burning to enhance ungulate habitat and to restore the ecological balance between early seral, mature and old growth forest covers within the Akie, Pesika, and Collins-Davis RMZs. By returning early seral to this landscape, it will increase the overall heath of this ecosystem and the reintroduction of early seral habitats is particularly beneficial for ungulates.	Finlay	Wildlife Infometrics Inc.	$169,865.98	Species of Interest Action Plan	Habitat-Based Actions
15	PEA-F17-W-1185	**Supporting the Mugaha Marsh Bird Banding Station at Mackenzie Nature Observatory**	**Mackenzie Nature Observatory: Mugaha Marsh Banding Station**: Mackenzie Nature Observatory (MNO) captures birds migrating from the north, which includes Bird Conservation Region 4. The fall 2016 season will add to the database, and long-term data is important for assessing the status of bird populations.	Parsnip	Mackenzie Nature Observatory	$16,000.00	Peace Basin Plan (Section 4.3)	Monitoring & Evaluation
16	PEA-F17-W-1306	**Improving Vegetation in the Drawdown Zone at Williston Reservoir**	**Identification of Flood- and Drought-Tolerant Plant Species**: This project aims to identify drought- and flood-tolerant plants naturally colonizing Williston Reservoir, and assess their practicality for seed collection and seedling propagation. This information would again be helpful for future revegetation efforts in B.C. interior reservoirs.	Parsnip	Cooper Beauchesne and Associates Ltd.	$4,920.00	Riparian and Wetlands Action Plan	Research & Informaiton Acquisition
17	PEA-F17-W-1422	**Taking the Classroom Outside: School Ecology Program**	**School Ecology Program**: This project is intended to augment the school life science curriculum by exposing students to workshops on local ecology and conservation, and to build stronger ties with the local Aboriginal community. The Board has expressed interest in seeing this program expanded to other communities.	Parsnip	Wildlife Infometrics Inc.	$23,800.00	Peace Basin Plan (Section 4.3)	Habitat-Based Actions
18	PEA-F17-W-1478	**Searching for Caribou in the Scott West Herd Area**	**Conservation of Caribou in the Scott West Herd Area**: Through community engagement (signage, social media, newspaper, radio and hunter interviews) and the use of remotely activated cameras, this project's goal is to assess the likelihood of a remnant population of Scott herd Caribou on the west side of Williston Reservoir. Determining if there are any caribou left on the west side of Williston Reservoir, as well as any baseline information that can be attained, is vital for these caribou.	Parsnip	Wildlife Infometrics Inc.	$18,415.00	Species of Interest Action Plan	Species-Based Actions
19	PEA-F17-W-1469	**Enhancing Caribou Survival in the Klinse-Za Herd**	**Enhancing Calf Survival in the Klinse-Za Caribou Herd**: The Klinse-Za (Moberly) Caribou herd has declined rapidly over the past two decades. To aid in the reversal of this decline, this project will increase the likelihood of cow and calf survival by capturing 10 to 15 pregnant cows, keeping them in a protective pen during birthing, and continuing the protection until the calves are approximately six-weeks old. This is a collaborative project with West Moberly and Saulteau First Nations.	Peace	Wildlife Infometrics Inc.	$66,648.55	Species of Interest Action Plan	Species-Based Actions
20	PEA-F17-W-1484	**Studying Bat Ecology in Williston Reservoir**	**Williston Reservoir Bat Ecology Program**: Because White Nose Syndrome (WNS) strikes in the winter and kills bats while they hibernate, this project seeks to identify important bat habitat and establish baseline winter bat data, to help monitor populations and inform future plans for dealing with WNS using acoustic monitors, roost loggers deployed in caves, bat capture and telemetry. The study will help answer critical questions about bat ecology in Williston Reservoir.	Peace	Ingebjorg Jean Hansen	$78,635.00	Species of Interest Action Plan	Research & Informaiton Acquisition
					Wildlife Project Total:	**$669,226.98**		
					GRANT-BASED PROJECT TOTAL:	**$971,218.78**		

FWCP Fish & Wildlife COMPENSATION PROGRAM fwcp.ca

FWCP Peace Region
2016-17 Fish and Wildlife Project Summary

	Project ID	2016-17 FWCP Peace Region Directed Projects		Sub-Region	Project Lead	FWCP Funding	Action Plan Alignment	Project Type
21	Directed Project	**Mercury Investigation 2016**	**Mercury in Fish Investigation for Williston-Dinosaur Basins 2016**: The purpose of this project is to initiate development and implementation of a sampling plan that will gather enough information to update the mercury public advisory for fish in Williston Reservoir, with meaningful contribution from First Nations communities who fish in its reservoir and tributaries.	Peace	TBD (In RFP process April 2016)		Species of Interest Action Plan	Research & Informaiton Acquisition
22	Directed Project	**Arctic Grayling Investigation**	**Fish and Wildlife Compensation Program: Peace Arctic Grayling Investigation**: This directed project's objective is to collect available information on Arctic Grayling status, trends, and their habitat in FWCP's Peace Region, and explain what knowledge gaps remain before conservation efforts can be planned. The project's report will also provide future field study scopes of work with a detailed description of desired outcomes, recommended methodology and approximate costs.	Peace	Mike Stamford, Stamford Environmental		Species of Interest Action Plan	Research & Informaiton Acquisition
23	Directed Project	**Riparian and Wetland Habitat Mapping**	**Wetland and Riparian Mapping Pre-typing in the Williston Reservoir Region in Support of FWCP' s Peace Region Riparian and Wetlands Action Plan 1a-1 and 1b-1**: This riparian and wetland habitat mapping project will build understanding of riparian and wetland habitats within the FWCP's Peace Region which will support future conservation planning.	Peace	Corey Erwin, MOE		Species of Interest Action Plan	Research & Informaiton Acquisition
24	Directed Project	**Moose Limiting Factors Investigation**	**Investigation of Limiting Factors Affecting Moose Survival in the Peace Region**: This project is designed to improve understanding of the ecological factors that limit moose survival in certain portions of FWCP's Peace Region.	Peace	Scott McNay, Wildlife Infometrics (investigation), and Dale Seip, MOE, Capture and Collar		Species of Interest Action Plan	Research & Informaiton Acquisition
					Directed Project Total:	**$0.00**		
					2016-17 PROJECT SPEND TOTAL:	**$971,218.78**		