FWCP
Fish & Wildlife
COMPENSATION PROGRAM

Annual Report
FWCP Columbia Region
2016-2017

The FWCP is a partnership between BC Hydro, the Province of B.C., Fisheries and Oceans Canada, First Nations and Public Stakeholders to conserve and enhance fish and wildlife impacted by existing BC Hydro dams.

Message from the Board Co-Chairs

On behalf of the FWCP Columbia Board, we are pleased to invite you to read our Annual Report for Fiscal Year 2016-2017 (F17). The FWCP's Columbia Region is dedicated to advancing the objectives of the FWCP partnership—conservation, sustainable use, and community engagement—in watersheds impacted by BC Hydro dams in the Columbia Region.

FWCP projects are funded and delivered through our annual grant application process, long-term agreements and partnerships. Our Boards may also choose to direct projects and approve funding to address regional priorities. As in years past, the majority of program expenditures (approximately $4.45 million) went toward implementing core (annual and ongoing) fish and wildlife projects. Examples of core projects include the Nutrient Restoration Programs in Arrow Lakes Reservoir and Kootenay Lake; Hill Creek and Meadow Creek spawning channels; East and West Kootenay Enhancement activities; and Land Securement.

In total, 55 fish and wildlife projects were funded, with a project investment of approximately $5.8 million. There were 42 grant application projects implemented to support the restoration and enhancement of fish and wildlife habitats, and we are always pleased to see the amount of in-kind and volunteer support, as well as other funding contributions, used to deliver successful projects. The total value (including in-kind resources, other funding sources, etc.) of the grant-based projects supported in F17 was approximately $2.9 million, with an FWCP investment of over $1.4 million.

In F17, our Columbia Board identified three regional priorities in addition to the priority actions outlined in our Action Plans, which all projects must align with. These were: funding projects in the North Columbia Program area, which includes the Golden, Revelstoke, and Valemount areas; stream habitat restoration and enhancement projects, as identified in the Streams Action Plan; and riparian and wetland restoration and conservation projects, as identified in the Wetland and Riparian Action Plan.

There was a stronger uptake of the Community Engagement Grant in F17 (introduced in F16), and all of the $5,000 in available funds was allocated. This grant provides an opportunity for FWCP stakeholders (e.g. environmental groups, rod and gun clubs, non-profits, stewardship organizations, government, and First Nations) to apply for small amounts of funding (up to $1,000 maximum) to support their conservation and enhancement work. Projects funded included planting riparian habitat in the East Kootenay, various environmental workshops and conferences, constructing a 3D watershed model, and developing a White-nose Syndrome Action Plan for Bats.

This was also another year of successful major outreach events organized by FWCP in the Columbia Region. New for F17 was the launch of Critter Day at Beaver Creek Park South of Trail. This event is designed to raise awareness of sensitive habitats and ecosystems, and the at-risk species that call these areas home in Trail and the Pend d'Oreille Valley. Attendance and

interest in the event was excellent and there are plans to repeat the event in F18. Other events held in F17 included Toadfest (now in its seventh year) at Summit Lake near Nakusp (covered by provincial media), Turtle Day near Cranbrook, and the Meadow Creek Spawning Channel Open House at the north end of Kootenay Lake.

F17 continued to see an increased momentum, including enhanced delivery of an effective and efficient program, and strengthened partnerships with First Nations and project proponents. In the fall of 2016, a survey was undertaken to find out what proponents thought of using the new online application and reporting "Grant Management System," now in its second year. More than 50 per cent of proponents responded, and the feedback was very positive: most said that the instructions were very clear, and help was there when they needed it. The full results are on our **website**.

We would like to say a special thank you to Grant Trower who, after 10 dedicated years on our Board as a public representative, stepped down at the end of this year. Grant has approached his service to our Board with great commitment and enthusiasm – thank you! We would also like to take this opportunity to welcome Misun Kang as the new Ktunaxa Nation representative.

And finally, we wish to thank all the dedicated applicants, proponents, contractors, and Program and project partners who work hard each year to successfully implement projects to help us achieve our vision of thriving fish and wildlife populations, in healthy and sustainable ecosystems.

Sincerely,

John Krebs
FWCP Columbia Board Co-Chair

Trevor Oussoren
FWCP Columbia Board Co-Chair

Front Cover: FWCP funded a prescribed burn in April 2016 near Arrow Lakes Reservoir to improve wildlife habitat. Photo: BC Wildfire Service

1. Organizational overview

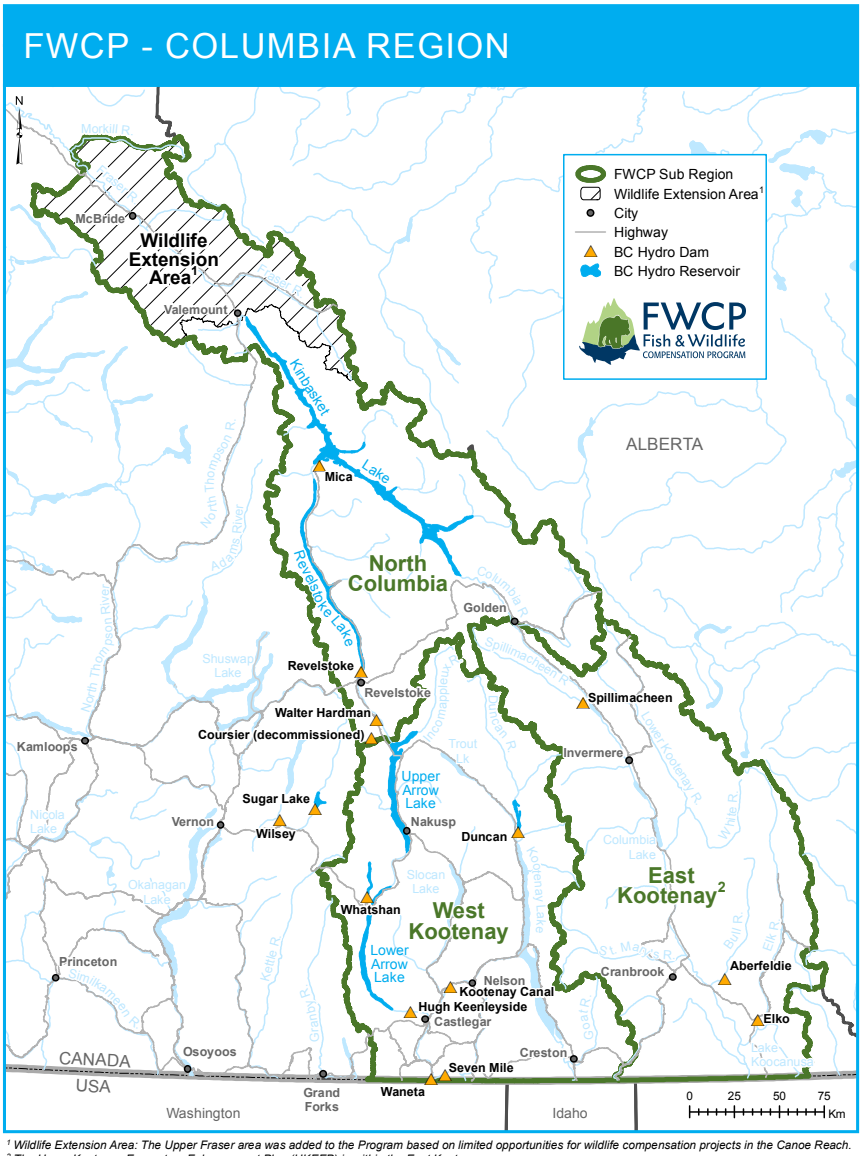
INTRODUCTION

The Fish and Wildlife Compensation Program (FWCP) was established to compensate for the impacts resulting from the construction of BC Hydro dams by conserving and enhancing fish and wildlife in the Coastal, Columbia and Peace regions of British Columbia. FWCP operates as a partnership between BC Hydro, the Province of B.C., Fisheries and Oceans Canada (DFO), First Nations, and Public Stakeholders.

FWCP has invested more than $151 million and delivered nearly 1,750 projects since 1988 that increase understanding, and conserve and enhance fish, wildlife and their supporting habitats impacted by existing BC Hydro generation facilities.

The FWCP operates in three regions across the province of B.C. In the Columbia and Peace Regions, FWCP operates to meet fish and wildlife conditions in BC Hydro's water licences. In the Coastal Region, the FWCP's work is a voluntary initiative. The FWCP in the Columbia Region was established in 1995 to compensate for fish and wildlife populations affected by the construction of BC Hydro dams in Canada's portion of the Columbia Basin (Figure 1.1). This program merged already-existing compensation programs for Arrow, Duncan, Mica, Seven-Mile, and Revelstoke facilities, which have water licence conditions related to fish and wildlife compensation.

This Annual Report provides an overview of FWCP's activities in the Columbia Region for Fiscal Year 2017 (F17), covering the period April 1, 2016 to March 31, 2017. It includes an overview of financial performance, project funding summary and alignment of the year's work with strategic objectives.



[1] Wildlife Extension Area: The Upper Fraser area was added to the Program based on limited opportunities for wildlife compensation projects in the Canoe Reach.
[2] The Upper Kootenay Ecosystem Enhancement Plan (UKEEP) is within the East Kootenay.

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GOVERNANCE

The FWCP is governed through a framework that recognizes the regulatory accountabilities of agency partners (BC Hydro, the Province of B.C., and DFO), and ensures active participation and input from First Nations, and Public Stakeholders. Specifically, each region has a Board to provide local oversight to the planning and implementation of the FWCP at the regional level, and to make local decisions on strategic priorities and on FWCP annual expenditures and investments. The **FWCP Governance Manual** can be found on our website at **fwcp.ca**.

Our work in the Columbia Region was guided by a Board of 10 members representing First Nations, Public Stakeholders, the Province of B.C., and BC Hydro. In January 2017, we welcomed Misun Kang as the new Ktunaxa Nation representative, replacing Joe Nicholas who stepped down in 2016. A Public Representative recruitment process was initiated in February 2017 to fill Grant Tower's position upon the completion of his term in March 2018. Our goal is to have this vacancy filled in the spring of 2017.
The F17 Board Members were:

First Nation Representatives:
Misun Kang, Ktunaxa Nation
Adam Neil, Secwepemc Nation
Howie Wright, Okanagan Nation Alliance

Public Representatives:
David White
Grant Trower
Rick Morley

Agency Representatives:
David Tesch, Ministry of Environment (MOE)
Doug Johnson, BC Hydro
Trevor Oussoren, BC Hydro
John Krebs, Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRO)

The Board reports to the Policy Committee, representing the federal and provincial government regulators (DFO and the Province), as well as BC Hydro, which exists to allow the agencies to provide oversight on a range of fish and wildlife-related issues relevant to BC Hydro including, but not limited to, the FWCP.

The F17 Policy Committee members were:

Edie Thome / Karen Popoff, BC Hydro[1]
Kaaren Lewis, B.C. Ministry of Environment
Cheryl Webb, Fisheries and Oceans Canada (DFO)

The Board is supported by two Technical Committees, one for wildlife projects, and one for fish projects. The primary roles of the Technical Committees are: to provide a technical advisory role, including fair and objective technical review, evaluation and ranking of fish and wildlife project proposals; support the development of strategic plans; assist in the development and oversight of directed projects; and to provide advice on the effective implementation of Action Plans. The F17 Fish and Wildlife Technical Committee members were:

Fish Technical Committee Members:
Karen Bray, BC Hydro (Chair)
Jeff Burrows, FLNRO
Tyler Weir, FLNRO
Guy Martel, BC Hydro
Michael Zimmer, Okanagan Nation Alliance
Will Warnock, Canadian Columbia River Inter-Tribal Fisheries Commission

Wildlife Technical Committee Members:
Tara Szkorupa, FLNRO (Chair)
Lindsay Anderson, FLNRO
Tom Appleby, BC Hydro
Alan Peatt, Okanagan Nation Alliance
Cathy Conroy, Ktunaxa Nation

In each region, program management and operations are implemented by a full-time Region Manager who administers all aspects of program delivery, including contribution agreements, long-term agreements, and contracts. For F17, the Region Manager in the Columbia Region was Crystal Klym. For all three FWCP regions, the Program Administrator was Lorraine Ens and the Program Manager was Trevor Oussoren. Through a Letter of Agreement, FLNRO implemented a number of core fish and wildlife programs in F17 under the direction of Eva Schindler.

[1]Karen Popoff replaced Edie Thome for BC Hydro part way through the year.

Our Columbia Region Board includes representatives from First Nations, the Province of B.C., BC Hydro, Fisheries and Oceans Canada, and Public Stakeholders.

2.0 FWCP strategic framework

We use a strategic framework to guide overall planning for compensation investments. The framework (Figure 2.1) has guided the development of strategic plans (Section 3.0) for each basin or watershed within the FWCP program area, which in turn inform Action Plans that focus on specific priority actions.

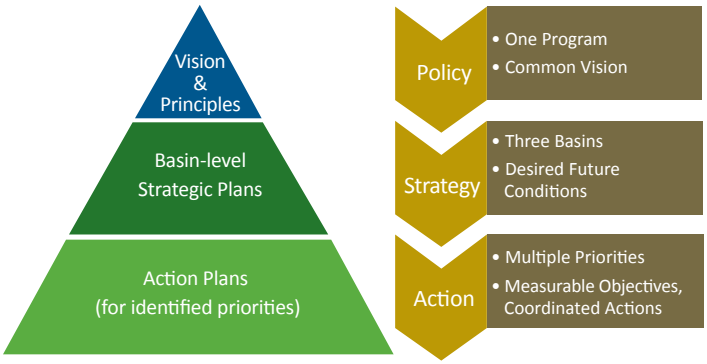

Figure 2.1
Relationship between FWCP's Strategic Framework, Basin-level Strategic Plans and Action Plans.

OUR VISION

Thriving fish and wildlife populations in watersheds that are functioning and sustainable.

- An effective program will support the maintenance of healthy fish and wildlife populations in basins significantly altered by hydroelectric development. Actions taken should satisfy both the conservation and sustainable-use objectives and, where possible, restore ecosystem function, making species more resilient to emerging pressures, such as climate change.

OUR MISSION

The FWCP compensates for the impacts to fish, wildlife and their supporting habitats affected by BC Hydro-owned and operated generation facilities.

Floating habitat for loons created near Bush Arm, Kinbasket Reservoir. Photo: Mandy Kellner

3.0 FWCP strategic objectives and strategic plans

3.1 STRATEGIC OBJECTIVES

The strategic objectives for the FWCP reflect a synthesis of the core objectives and mandates of partner agencies as they relate to mitigating impacts associated with hydro-power generation in British Columbia:

Conservation

- Maintain or improve the status of species or ecosystems of concern.
- Maintain or improve the integrity and productivity of ecosystems and habitats. This addresses the concept of ecosystem integrity, resiliency and the functional elements of ecosystems, including efforts to optimize productive capacity.

Sustainable use

- Maintain or improve opportunities for sustainable use, including harvesting and other uses. This objective focuses on FWCP's role in restoring or enhancing the abundance of priority species, and in providing information to resource management decision-makers related to providing opportunities for harvesting and other uses. Harvesting includes First Nations, recreational and commercial harvests. Other uses may include cultural, medicinal, or non-consumptive uses, such as wildlife viewing.

Community engagement

- Build and maintain relationships with stakeholders and Aboriginal communities. This objective stems from BC Hydro's social responsibility policy, MOE's shared stewardship goal, and the approach of DFO's Stewardship and Community Involvement Program. This recognizes the importance of engaging Aboriginal communities, local stakeholders and other interest groups, to contribute toward making good decisions and delivering effective projects.

3.2 STRATEGIC PLANS

The **Columbia Basin Plan** sets forth the strategic direction for the FWCP in the Columbia Region. It includes the vision, principles, policy context and strategic objectives that form the foundation of the FWCP as well as a short description of the Columbia Basin landscape and an overview of the hydro-electric facilities and footprint impacts created by those facilities. Action Plans identify priority actions for the restoration, conservation and enhancement of fish and wildlife and their habitats in the Columbia Region. Taken together, the Basin Plan and accompanying Action Plans present the FWCP priorities for investments in compensation activities within the Columbia Basin. All fish and wildlife projects approved by the Board, regardless of delivery method, must align with the Basin and Action Plan strategic objectives and priority actions.

Currently, there are seven Action Plans in the FWCP Columbia Region:

- **Large Lakes Action Plan**;
- **Small Lakes Action Plan**;
- **Riparian and Wetland Action Plan**;
- **Upland/Dryland Action Plan**;
- **Streams Action Plan**;
- **Species of Interest Action Plan**; and
- **Upper Kootenay Ecosystem Enhancement Plan** (UKEEP)

Action Plans were originally developed in June 2012 with the exception of UKEEP, which was finalized in August 2014 and revised in June 2016. The Riparian and Wetlands Action Plan was revised in September 2014 based on input received from stakeholders, and replaced the earlier (June 2012) version. A minor update was made to Table 1 of the Upland/Dryland Action Plan in June 2016. These plans, together with the **Five Year Core Fisheries Program Plan 2014-2018**, are considered living documents that are reviewed and refined on an ongoing basis, as determined by the regional Board. Columbia Basin and Actions Plans are available at **fwcp.ca**.

4.0 Report on performance

4.1 Results of the 2016-2017 grant application intake

F17 marked the second year that grant applications were administered through the online **Grant Management System** (GMS). This online system has allowed for administrative management efficiencies, more robust data-collection and reporting, and helps automate some of the application review process. F17 also marked the fourth year that the grant application intake was guided by the Basin and Action Plans. A total of 84 grant applications (66 Columbia, 18 UKEEP) were received during the F17 intake with a total request of over $3.1 million. This number was up from the F16 intake, where 67 grant applications (48 Columbia, 19 UKEEP) were received with a total request of over $1.9 million. A summary of F17 Board approved fish and wildlife projects, including FWCP funding amounts, is provided in Table 4.2.

4.2 Financial Report

The FWCP is funded by BC Hydro through a notional fund that is indexed to the Consumer Price Index (CPI). For F17, spanning the time period of April 1, 2016 to March 31, 2017, the annual funding budget for FWCP in the Columbia Region was approximately $4.8 million.

Each year, annual funding is allocated by our Columbia Region Board toward fish and wildlife projects and other program costs. In F17, these other costs included administrative costs (e.g. salaries, travel and expenses, office expenses, and committee costs) and communications costs (e.g. communications support and advertising). Any unallocated funds are carried forward ("unspent surplus dollars"), and available for future spending.

Similarly, not all allocated "committed" funds are expended by the end of a given fiscal year, due to the seasonal nature of some field-based projects. The unspent committed funds ("F16 remaining commitment to spend in F17") are the difference between the committed funds and what has actually been spent. These funds are carried forward as a liability on the balance sheet and remain available for spending on the respective committed projects to ensure payment in full. All committed funds are associated with the fiscal year in which the spending was approved, and tracked separately.

Our financial situation in the Columbia Region at the start of F17 (April 1, 2016) included a Board-approved budget of $6 million, funding commitments from previous years, to spend in F17, of $1.5 million, and an unspent surplus of approximately $135,000. (Figure 4.1).

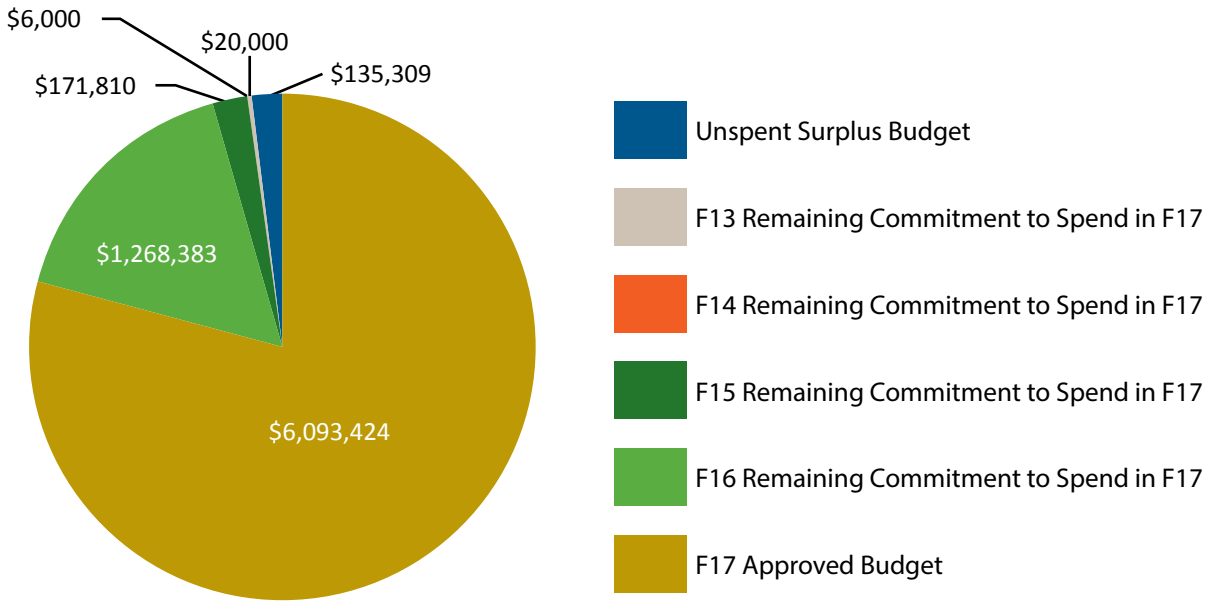

Figure 4.1 **FWCP Columbia Region Financial Summary at April 1, 2016**[1]

[1] The FWCP administers UKEEP projects through a funding partnership with the Columbia Basin Trust (the Trust), which provided $3 million over three to five years. UKEEP is helping conserve and enhance fish, wildlife and ecosystems in the Upper Kootenay River Watershed, including the Koocanusa Reservoir.

For F17, the Columbia Region Board approved a budget of over $6 million**, which included the notional fund ($4.8 million) and unspent funds ($1.2 million) carried forward from previous fiscal years. This year's funds went primarily towards projects related to fish and wildlife conservation, restoration and enhancement projects. In F17, the Board set aside a contingency fund to cover potential unforeseen expenses related to regional priorities and projects. Figure 4.2 illustrates the approved F17 budget at the start of the fiscal year. A complete project list for F17 is found starting on page 10. Administrative and communications costs made up approximately 3.6% and 2.1% of the total budget, respectively.

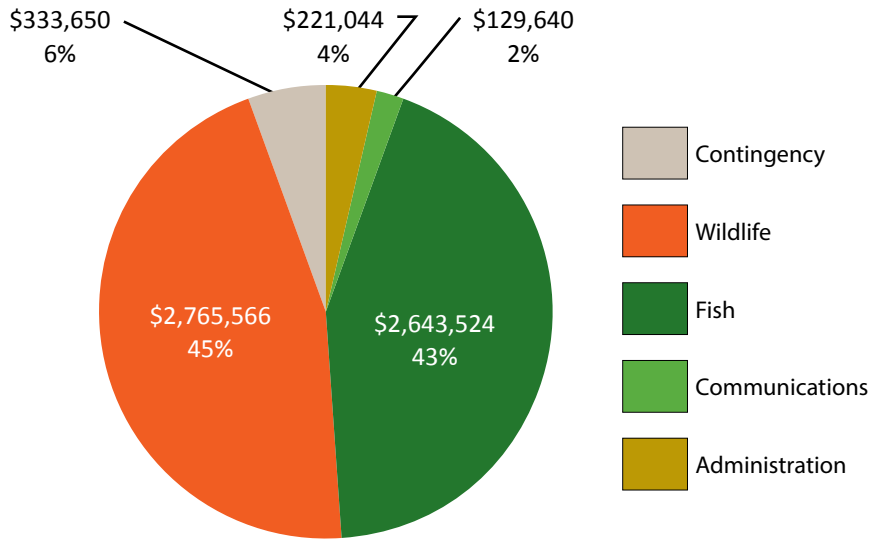

Figure 4.2 **Approved budget as at April 1, 2016**

A summary of planned and realized expenditures at the end of Fiscal Year 2017 by major budget category is provided in Table 4.1. This represents a "snapshot" in time of actual expenditures, as these values will change over the following months, as F17 approved projects become finalized and final payments are issued. Each year, allocated project funding is not fully paid by year-end due to the seasonal nature of field-based projects and the fact that some project proponents are unable to submit their final project reports for approval by fiscal year-end. The F17 allocated funds not yet paid out by March 31, 2017 are labelled "Planned" in Table 4.1.

In addition, it is not uncommon for projects to be completed under-budget ("Unspent" in Table 4.1). Any funds not spent during the fiscal year will be carried forward as unspent surplus budget and made available for future spending. If additional projects remaining in the "Planned" category come in under-budget, the unspent amount for F17 may increase.

As shown in Table 4.1 below, the F17 Board approved budget for FWCP Columbia included approximately $2.8 million for wildlife-related projects, $2.6 million for fish-related projects, $335,000 for administration and communication support, and $334,000 for contingency. Actual and planned expenditures related to these project envelopes are also shown.

Table 4.1 F17 actual budget at March 31, 2017.

Fund category	FY17 Approved Budget	Paid up to March 31, 2017	Planned payments*	Unspent funds**
Administration	$221,044	$241,209	$5,637	$(25,802)
Communciations	$129,640	$93,877	$37,078	$(1,316)
Fish	$2,643,524	$1,880,957	$637,075	$125,493
Wildlife	$2,765,566	$1,351,195	$1,259,944	$154,427
Contingency	$333,650	$-	$-	$333,650
TOTAL	**$6,093,425**	**$3,567,238**	**$1,939,735**	**$586,452**

Note*: 1Planned payments represent expected invoices for approved, ongoing projects that have not yet submitted final reports by March 31.

Note**: Unspent funds are carried forward and available for future spending.

Totals do not include the F17 approved UKEEP budget. Please see Section 4.3 for details.

4.3 Summary: Upper Kootenay Ecosystem Enhancement Plan (UKEEP)

The FWCP administers UKEEP projects through a funding partnership with Columbia Basin Trust (the Trust), which provided $3M over five years. It was developed with technical and community input that helped conservation priorities for lakes, streams, wetlands upland and dryland areas, as well as species of interest. UKEEP was jointly announced by the Trust and FWCP in 2013. F17 was the second full year of projects being funded under UKEEP.

In F17, 14 grant applications (6 fish, 8 wildlife) were approved for a total UKEEP contribution of $725,787 and a total project value of $1.4M. Projects supported through the grant application process ranged from grassland and stream restoration to mule deer survival monitoring. In addition, two directed projects were approved for funding in F17 for a total UKEEP contribution of $75,395. These directed projects included the Koocanusa Kokanee Enumeration project and Elk Valley Elk Project. The full list of UKEEP projects is shown in Table 4.3.

4.4 Strategic plan accountability and F17 projects

As noted in Section 3.2, alignment with the strategic objectives and priority actions identified in the Basin and Action Plans is a key consideration for the Technical Review Committees and Board during the project evaluation and selection process.

Tables 4.2, 4.3 and 4.4 provide a listing of 2016-17 fish and wildlife projects approved for funding in F17, including alignment with Action Plan priorities. Funding identified in the following tables may vary from the approved budget as of April 1, 2016, due to project budget increases or decreases as projects progress throughout the fiscal year. Final reports for all projects are posted to the appropriate Provincial databases once available. Visit **fwcp.ca/search** for an updated list of all available final reports.

Masse Consulting partnered with the Lower Kootenay Indian Band to restore riparian habitat near Creston.

4.5 F17 Projects

Table 4.2: 2016-2017 FWCP Columbia Region application-based fish and wildlife projects[1]

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
1	COL-F17-F-1376	Mid-Columbia Ecosystem Enhancement Projects	North Columbia	Mountain Labyrinths Resource Management Consulting Inc.	Riparian and Wetlands	Research & information	$10,770	Final reporting currently in progress.
2	COL-F17-F-1450	Deer Creek Drawdown Zone Fish Habitat Enhancement: Year 2	West Kootenay	Okanagan Nation Alliance	Streams	Habitat-based	$43,299	Project currently in progress.
3	COL-F17-F-1200	Gerrard Rainbow Trout Stock Productivity at Low Abundance	West Kootenay	Redfish Consulting Ltd.	Large Lakes	Research & information	$13,821	Surveys conducted in the spring of 2016 covered approximately 10.4% Lardeau River and 6.6% of the Duncan River. A total of 8.7% of the mainstem shoreline and 17.7% of the side channel habitat were surveyed in the Lardeau River. Similarly, a total of 7.6% of the mainstem shoreline and 0.7% of the side channel habitat were surveyed in the Duncan River in 2016. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52339**.

[1]Search for reports on our website at: **http://fwcp.ca/search/**

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
4	COL-F17-F-1456	Eagle Creek Connectivity/ Enhancement Feasibility Study	West Kootenay	Okanagan Nation Alliance	Streams	Research & information	$6,970	A brief review was conducted to determine history, ownership and water rights within the study area. A site visit was conducted in August 2016 to understand habitat conditions during the period of Kokanee migration and spawning. All results are based on observations in the field and the pre-existing knowledge of experienced professionals. Observed stream features were used to characterize stream morphology and begin to understand the origins and dynamics of channel sediment. Report yet to be uploaded.
5	COL-F17-F-1400	Heart Creek Fish Passage Improvements: Phase 2	West Kootenay	Ministry of Transportation and Infrastructure	Streams	Habitat-based	$20,000	MOTI was able to let two contracts; one to Northwest Hydraulic Consultants for a Hydrotechnical Assessment of Replacement Options Report and the other to Sea to Sky Drilling for a drill rig to give us a sample of what soils are at the crossing site. These reports will be used in helping narrow down our options for structures proposed for the Heart Creek Fish Passage Improvements – Applegrove Road Project. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52623**.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
6	COL-F17-F-1344	Murphy Creek Rainbow Trout Spawning Channel Maintenance	West Kootenay	Trail Wildlife Association	Streams	Species-based	$10,152	In 2017, 21 pools in the Murphy Creek spawning channel were cleaned of debris and sediment. Over 20 pieces of woody debris were removed from the wetted width of the spawning channel and approximately 9 m3 of clean spawning gravel was added throughout the spawning channel. The settling pond was dredged and nine cedar poles were used as management structures to increase pool depths. 55 - 60 rocks were added strategically to improve stream flow and increase in-stream habitat for juvenile Rainbow Trout. Report yet to be uploaded.
7	COL-F17-F-1410	Qua/Curtis Crystal Green Nutrient Restoration Preparation	West Kootenay	Salmo Watershed Streamkeepers Society	Streams	Research & information	$40,758	Curtis and Qua Creeks in the Salmo River watershed were sampled for the second year of the Nutrient Restoration Preparation Project. This assessment of the overall productivity of these two creeks is to determine if either creek is suitable for nutrient restoration with the addition of Crystal Green pelletized fertilizer in future years to augment juvenile Bull and Rainbow Trout as a restoration action within the priority Salmo watershed. Report yet to be uploaded.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
8	COL-F17-F-1301	Sheep Creek Fertilization: The Food for Fish Enhancement Project	West Kootenay	Salmo Watershed Streamkeepers Society	Streams	Habitat-based	$34,053	2016 represents the 13th year of nutrient addition to Sheep Creek (nine years of treatment as part of a paired-stream, before-after (BACI) experiment in 2001-2009, and 4 years of treatment as a continued enhancement project during 2012-2016 years). In 2016, approximately 3,029 liters of liquid urea-ammonium nitrate and 526 liters of liquid ammonium phosphate were metered into Sheep Creek over the duration of the program. Report yet to be uploaded.
9	COL-F17-F-1280	Slocan Lake Bull Trout Redd Counts 2016	West Kootenay	Mountain Water Research	Large Lakes	Research & information	$24,490	During the 2016 surveys of all study streams, 105 redds and 5 unspawned females were enumerated. Total redd counts and unspawned female counts were used to estimate Bull Trout spawner escapements for each stream using an expansion factor of 2.4. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52338** (information sensitive, contact MOE at: **SPI_mail@gov.bc.ca**).
10	COL-F17-F-1204	Protecting Our Waters From Aquatic Invasive Species: Phase 3	West Kootenay	Central Kootenay Invasive Species Society	Large Lakes	Research & information	$28,500	Priority waterbodies within the region were surveyed and monitored for the presence of invasive aquatic plants and dreissenid mussels. A total of 62 plankton samples were collected from 17 waterbodies, and analyzed for any presence of dreissenid veligers (mussel larvae). All samples were negative for the presence of dreissenid veligers. Similarly, no juvenile or adult dreissenid mussels were detected on any of the substrate equipment. No submerged aquatic invasive plants were discovered at any of the waterbodies surveyed in the course of this study. Report yet to be uploaded.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
11	COL-F17-F-1194	Whatshan Reservoir Bull Trout Risk Assessment	West Kootenay	Redfish Consulting Ltd.	Large Lakes	Species-based	$11,284	The initial survey(s) of Bull Trout redds during the latter part of September 2016 in Fife and North Fife creeks were conducted to provide some insight into the number of spawning adfluvial Bull Trout. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52340** (information sensitive, contact MOE at: **SPI_mail@gov.bc.ca**).
						Application-Based Fish Project Total: $244,097		
12	COL-F17-W-1407	Advancing Wetland Stewardship & Restoration in the Kootenays	Basin-Wide	British Columbia Wildlife Federation	Riparian and Wetlands	Habitat-based	$66,000	Project currently in progress.
13	COL-F17-W-1427	Invasive Plant Management & Restoration of Protected Areas	East Kootenay	East Kootenay Invasive Plant Council	Upland and Dryland	Habitat-based	$13,999	In 2016, invasive plant inventories and treatments were conducted at partnering conservation properties: Nature Conservancy of Canada, the Nature Trust of BC, FLNRO, BC Parks and other high-value adjacent lands. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52627**.
14	COL-F17-W-1219	Lewis's Woodpecker Nesting Box	East Kootenay	Lake Windermere District Rod and Gun Club	Species of Interest	Habitat-based	$3,164	The Lake Windermere District Rod & Gun Club (LWDRG) constructed and placed nesting boxes for Lewis Woodpecker (Species at Risk) within its historical range in the Invermere area. The placement of boxes is on both Crown and Private property where cavity nesting trees have diminished significantly. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52336**.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
15	COL-F17-W-1214	North Columbia Great Blue Heron Inventory and Stewardship	North Columbia	Pandion Ecological Research Ltd.	Species of Interest	Research & information	$20,000	Project currently in progress.
16	COL-F17-W-1195	Nest Platforms for Loons in Bush Arm and Staubert Lake	North Columbia	Kingbird Biological Consultants Ltd.	Small Lakes	Habitat-based	$18,685	Common Loon use of lakes and their nesting success was monitored to determine where to install platforms. Three artificial floating nest platforms were installed, one in each of three small natural lakes in the Columbia Mountains. The primary goals were to increase the number of lakes suitable for nesting (e.g. where poor nest sites might be limiting usage) and to increase safe nesting options at lakes where nesting success may have been poor. Report link: **http://a100.gov.bc.ca/pub/siwe/details.do?id=5400**.
17	COL-F17-W-1397	Creating Wetland Habitats in the Kinbasket Reservoir Area	North Columbia	Golden District Rod and Gun Club	Riparian and Wetlands	Research & information	$5,000	Project currently in progress.
18	COL-F17-W-1435	Moberly Marsh Habitat Restoration: Phase 1	North Columbia	LGL Limited Environmental Research Associates Ltd.	Riparian and Wetlands	Habitat-based	$4,950	Final reporting currently in progress.
19	COL-F17-W-1288	Revelstoke Turtle Nesting Site Restoration Operational Trial	North Columbia	Okanagan Nation Alliance	Species of Interest	Habitat-based	$29,999	Project currently in progress.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
20	COL-F17-W-1423	Arrow Lake - Airport Slough Dike Initiation Phase Assessment	North Columbia	Yucwmenlucwu (Caretakers of the Land) 2007 LLP	Riparian and Wetlands	Research & information	$5,000	This project explored the feasibility of a dike around Airport Slough to protect wetland features and stabilize water levels. Outcomes from discussions with stakeholders and a summary of existing scientific studies on Airport Slough are presented and include recommendations for next steps. Report yet to be uploaded.
21	COL-F17-W-1436	Revelstoke Caribou Maternity Pen	North Columbia	Revelstoke Caribou Rearing in the Wild Society	Species of Interest	Species-based	$78,110	In the second year of the project (2015-16) calf survival to ten months of age in March 2016 was ~ 3-fold higher (60%, n=15) than estimated wild survival (22%), but three adults died (of 18 captured) in the year following capture. Mortality within the pen was higher in the second year of the project (4/15 calves and 1/18 adults). In response to in-pen mortalities in 2015, a review of the pen facilities and protocols was conducted by a wildlife veterinarian and several measures were implemented. Report yet to be uploaded.
22	COL-F17-W-1414	Revelstoke Reach Riparian Restoration	North Columbia	Kingbird Biological Consultants Ltd.	Riparian and Wetlands	Habitat-based	$31,586	Project currently in progress

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
23	COL-F17-W-1222	American Bullfrog Surveillance and Eradication Program	West Kootenay	Central Kootenay Invasive Species Society	Riparian and Wetlands	Habitat-based	$5,000	In 2016, there was one known breeding population of Bullfrogs at a small lake in the Pend D'Oreille. Eradication efforts were carried out from May - October, including night electro-frogging of 56 adult and juvenile Bullfrogs, and fyke net capture of 382 tadpoles. High-risk waterbodies in proximity to the breeding population, as well as areas throughout the Creston valley, were monitored and surveyed for the presence of Bullfrogs. Final surveys in the Creston valley were negative for further instances of Bullfrogs. Report yet to be uploaded.
24	COL-F17-W-1346	Indian Creek Riparian and Wetland Restoration: Phase 2	West Kootenay	Masse Environmental Consultants Ltd.	Riparian and Wetlands	Habitat-based	$35,808	Project currently in progress.
25	COL-F17-W-1392	Lower Columbia Reptile at-Risk Conservation Project	West Kootenay	Jakob Dulisse Consulting	Upland and Dryland	Habitat-based	$15,082	Over a four year period (2013-2016) a total of 25 North American racers and two northern rubber boas captured and radio-tracked, resulting in the discovery of a total of 13 hibernacula so far. In May, 2016 "Critter Day", an outdoor public educational event, was co-hosted (with many partner organizations) at Beaver Creek Provincial Park. Approximately 300 people attended. Report link: http://a100.gov.bc.ca/pub/siwe/details.do?id=5348.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
26	COL-F17-W-1325	Centennial Wetland Restoration Project	West Kootenay	The City of Rossland / The Corporation of the City of Rossland	Riparian and Wetlands	Habitat-based	$28,400	Restoration works included erosion control with slope stabilization structures, and invasive plant treatments. A new 500 m trail was constructed to route the public out of the wetland area. Two groundwater wetland ponds were constructed, large woody debris was introduced throughout the restoration area and two bat roosting houses were installed at the site all to increase wildlife habitat. An interpretive sign, three trail signs and Storm Water Buffer Area signs were installed. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52626**.
27	COL-F17-W-1438	Wetland Restoration at Crooked Horn Farm in Winlaw, B.C.	West Kootenay	Slocan River Streamkeepers Society	Riparian and Wetlands	Habitat-based	$15,900	This project resulted in 0.5 hectares of restored wetland adjacent to the Slocan Valley Rail Trail just south of Winlaw. In total, 412 native trees and shrubs, 185 sedges, and 200 rushes were planted; 30 bird nesting boxes and 4 bat houses were installed; and 20 square meters of turtle nesting habitat were created. Report yet to be uploaded.
28	COL-F17-W-1330	Predicting Grizzly Bear Food: Huckleberries	West Kootenay	Birchdale Ecological	Upland and Dryland	Habitat-based	$15,780	Project currently in progress.

Table 4.3: 2016-2017 UKEEP application-based fish and wildlife projects

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
29	UKE-F17-W-1212	Kootenay Mule Deer Survival Monitoring	Basin-Wide	MFLNRO	UKEEP Upland and Dryland	Species-based	$14,300	Year 3 continued to monitor Mule Deer doe survival, fawn recruitment and cause of doe mortality in 4 populations that represent distinct habitat types occupied by Mule Deer across the region. GPS collar data will be used to identify important seasonal habitats and migration routes for Ecosystem Restoration activities. Report yet to be uploaded.
30	UKE-F17-F-1183	Westslope Cutthroat Trout Hybridization Evaluation	East Kootenay	MFLNRO	UKEEP Streams	Species-based	$90,450	Year 2 continued to study hybridization between Westslope Cutthroat Trout (WCT) and Rainbow Trout (RB) in the Upper Kootenay watershed. A total of 815 samples were genotyped using SNPs in 2016/17. Of the genotyped populations to date, the Upper St Mary River, Upper Fording, Greenhills Creek and Upper Lodgepole populations showed no evidence of hybridization. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52604** (information sensitive, contact MOE at: **SPI_mail@gov.bc.ca**).
31	UKE-F17-W-1417	Wolverine Harvest Sustainability in the Kootenay Region	East Kootenay	MSU	UKEEP Upland and Dryland	Research & information	$31,750	During 2016, 57 sampling sites were deployed over an area of 8,208 km2. 13 additional sites were set to increase the number of individual detections for modeling wolverine abundance. Of the 70 sampling sites, 26 sites (37%) had confirmed wolverine photo-detections and a total of 51 confirmed visits by wolverines at the 26 sites. 1,311 hair samples were collected during 2016. Report yet to be uploaded.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
32	UKE-F17-W-1447	Invasive Plant Management & Restoration of Protected Areas	East Kootenay	East Kootenay Invasive Plant Council	UKEEP Upland and Dryland	Habitat-based	$29,000	In 2016, invasive plant inventories and treatments were conducted at partnering conservation properties: NCC, TNTBC, FLNRO, BC Parks and other high-value adjacent lands. This successful collaboration resulted in an efficient partnership to decrease the existing invasive plant populations, as well as to prevent any further negative impact on the ecosystem. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52627**
33	UKE-F17-W-1460	Upper Kootenay Small Wetlands-at-Risk Restoration Project	East Kootenay	Jakob Dulisse Consulting	UKEEP Wetland	Habitat-based	$4,950	Seed funding was used to design a wetland assessment and restoration project in the UKEEP area of the East Kootenays. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52625**
34	UKE-F17-F-1264	Alexander Creek Streamside Restoration & Community Education	East Kootenay	Elk River Alliance	UKEEP Streams	Habitat-based	$22,050	In the fall of 2016, volunteers removed refuse from around the project site and planted 41 native riparian shrubs and trees on a 20-meter section of Alexander Creek's riverbank. Volunteers also harvested, bundled and soaked 600 live cuttings of dormant willows, dogwoods and cottonwood trees in preparation for the upcoming bioengineering work on a bank adjacent to the newly planted area. Interpretive kiosks were installed at key locations. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52606**
35	UKE-F17-F-1403	Koocanusa Sensitive Habitat Inventory Mapping: Phase 2	East Kootenay	Wildsight	UKEEP Lakes	Research & information	$68,520	Project currently in progress.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
36	UKE-F17-W-1448	Sheep Mountain-Cutts Road Grassland Ecosystems Restoration	East Kootenay	Rocky Mountain Trench Natural Resource Society	UKEEP Upland and Dryland	Habitat-based	$60,000	Mastication (mechanical thinning by mulching), hand slashing and piling were used to reduce forest ingrowth in four treatment units at Sheep Mountain/Cutts Road Pasture in the Waldo Range Unit. A net area of 93 hectares and was thinned to Open Forest standards by mechanical mastication using a Promac 52 inch mulching disk mounted on the end of the boom of a Volvo 210 excavator. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52628**
37	UKE-F17-W-1459	Tracking Long-Billed Curlews in the Lower Columbia Valley	East Kootenay	Bird Studies Canada	UKEEP Upland and Dryland	Species-based	$46,180	Project currently in progress.
38	UKE-F17-W-1424	Strauss Road Grassland Ecosystems Restoration	East Kootenay	Rocky Mountain Trench Natural Resource Society	UKEEP Upland and Dryland	Habitat-based	$60,000	Mastication (mechanical thinning by mulching) was used to reduce forest ingrowth in one treatment unit on Strauss Road in the Linklater/Englishman Landscape Unit C37. A net area of 61.8 hectares was thinned to Open Forest standards by mechanical mastication using a Promac 52 inch mulching disk mounted on the end of the boom of a Cat 320CRR excavator. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52629**

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
39	UKE-F17-W-1395	Tobacco Plains Ecological Restoration	East Kootenay	Keefer Ecological Services Ltd.	UKEEP Upland and Dryland	Habitat-based	$54,563	Efforts in 2016/17 focused on continued recovery of grassland and open forest habitat through invasive plant management, including herbicide application and targeted Mountain Goat grazing, forest thinning, a Lewis's Woodpecker nesting survey, and the development of an ecosystem restoration prescription for Long-billed Curlew habitat. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52637**
40	UKE-F17-F-1369	East Kootenay Culvert Remediation 2016	East Kootenay	Freshwater Fisheries Society of BC	UKEEP Streams	Habitat-based	$179,664	Project cancelled by grant applicant.
41	UKE-F17-F-1452	Creation of WHAs for Bull Trout in the Upper Kootenay River	East Kootenay	Vast Resource Solutions	UKEEP Streams	Habitat-based	$4,939	This preliminary study helped kick start a multi-year project for the conservation of trout habitat across the Kootenay Region. Westlsope Cutthroat Trout (Oncorhynchus Clarki Lewisi) was added to the list of targeted species. A detailed approach was developed for identifying and prioritizing candidate areas for the creation of trout WHA. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52607** (information sensitive contact MOE at: SPI_mail@gov.bc.ca).

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
42	UKE-F17-F-1190	Wildhorse River Bull Trout Population Inventory and Recovery	East Kootenay	MFLNRO	UKEEP Streams	Research & information	$59,119	In 2016, 136 fish were captured in the enumeration fence, including 135 Bull Trout and one Westslope Cutthroat Trout. Of these fish, 128 were weighed, measured, and tagged before being released. The Wildhorse River was broken into 7 distinct indexes which contained a total of 171 Bull Trout redds. Of the 7 indexes, 3 were classified as containing critical habitat for bull trout spawning, and 2 indexes were recommended for future restoration efforts. Education signs were installed in key locations and a Wildhorse River stewardship group has been initiated. Report link: **http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=52605** (information sensitive contact MOE at: SPI_mail@gov.bc.ca).
43		Arrow Lakes Nutrient Restoration	West Kootenay	MFLNRO	Large Lakes	Habitat-based	$856,790	Nutrients (liquid agricultural grade fertilizer) were dispensed between the end of April and early September 2016. Monitoring was completed from April to November 2016 and included physical limnology, water chemistry, phytoplankton, zooplankton, mysids, kokanee spawner, kokanee hydroacoustic surveys, bull trout red surveys and a creel survey.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
44		Kootenay Lake Nutrient Restoration	West Kootenay	MFLNRO	Large Lakes	Habitat-based	$873,053	Nutrients (liquid agricultural grade fertilizer) were dispensed between the end of April and mid-September 2016. Monitoring was completed from April to November 2016 and included physical limnology, water chemistry, phytoplankton, zooplankton, mysids, kokanee spawner, and kokanee hydroacoustic surveys , and bull trout redd surveys and a creel survey.
45		Hill Creek Spawning Channel	West Kootenay	MFLNRO	Large Lakes	Species-based	$167,206	100 Kokanee otolith samples were collected and aged. Spawning channel 2016 monitoring results included: spring fry output of 4.4 million; egg to fry survival was 82% (target is greater than 30%); in the fall, 41,000 adults were enumerated into the spawning channel out of a total run estimate of 70,000; and 8,400 kokanee were utilized for collection of 1.4 million eggs to support kokanee recovery initiatives in Kootenay Lake. Fry samples tested for IHN in 2016 were found to be negative.
46		Meadow Creek Spawning Channel	West Kootenay	MFLNRO	Large Lakes	Species-based	$190,083	100 Kokanee otolith samples were collected and aged. Spawning channel 2016 monitoring results included: spring fry output of 0.48 million; egg to fry survival was low for the channel but high for the eyed egg plants (95%) (target for channel is 35% or higher); the annual fall deposition of eggs in the channel and Meadow Creek was 5.3 million due to a very low adult return; 6.8 million eyed eggs (from other provincial sources) were planted into the channel in October to supplement the low returns as part of a FLNRO initiative; a record size and fecundity of kokanee was recorded (average length of 38 cm and 778 eggs/fish).

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
47		Upper Columbia River Sturgeon Recovery	West Kootenay	Freshwater Fisheries Society of B.C.	Species of Interest	Species-based	$150,000	The species based action for white sturgeon is to contribute to conservation aquaculture program as short-term recovery is dependent on hatchery-origin releases to prevent extirpation and retain genetic diversity. In 2016, the program was successful in collecting wild-origin offspring from the Columbia River. These offspring were collected as eggs and larvae downstream of spawning sites in the Columbia River, incubated in a streamside rearing facility, and then transferred to the conventional sturgeon hatchery for rearing. A total of 800 wild-origin offspring were released into the Canadian section of the Columbia River in spring 2017 at 9 months of age and at a minimum target release size of 200 grams in weight..
Core fish project total: $2,237,132								

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
48		Land Management Operations	Basin-Wide	MFLNRO	Species of Interest	Habitat-based	$294,313	Land management activities were completed on priority conservation lands throughout the Columbia Region including invasive species management (Duncan-Lardeau, Pend d'Oreille, Lower Arrow), habitat restoration monitoring (Heinz field, Deer Park, Meadow Creek), ungulate winter range enhancement (Marsden, Limpid), and wildlife tree creation.
49		Non-Game Enhancement	Basin-Wide	MFLNRO	Upland and Dryland Areas	Habitat-based	$180,189	Coordinated surveys of 7 known Townsend's Big-eared bat maternity colonies. Supported the maintenance of approximately 800 m of the badger highway crossing structure. Monitored loon platforms at Whatshan reservoir (three of four nesting pairs used the platforms in 2016). Ten active Lewis's Woodpecker nests were located during 2016 including 7 in the PDO and three at the Upper Slocan River area. Summit Lake Western Toad breeding, population size and road mortality were investigated and fencing was constructed and maintained in order to increase use of crossing culverts and decrease highway mortality. Turtle nesting sites were maintained and monitored in Elizabeth Lake and Argenta. Vaux's Swift nest boxes were monitored and maintained (no nesting was documented in 2016).
50		Land Securement	Basin-Wide	FWCP	Species of Interest	Habitat-based	$536,121	FWCP supported the securement of three high priority properties including the Luxor Linkage Wetland (NCC), Bull River Grassland Corridor (TNTBC), and Meadow Creek South (TNTBC). Together these projects secured over 230 hectares of valuable fish and wildlife habitat.

The fences are linked to under road culverts that were installed to encourage badgers to travel under the highway to help reduce vehicle caused mortalities. Also, move the period so that it's after "structure".

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
51		Caribou Recovery	Basin-Wide	MFLNRO	Species of Interest	Species-based	$106,868	Predator track monitoring of the South Selkirk Mountain Caribou area was completed. A mini moose survey was completed in the North Revelstoke area to estimate population size and determine if it was within the desired estimate set out by caribou recovery research team.
52		East Kootenay Enhancement	East Kootenay	MFLNRO	Upland and Dryland Areas	Habitat-based	$451,258	Invasive plant inventory and treatment strategy completed for the East Lizard and Galton Restoration Areas. Prescribed burns completed on the Estella Mountain area (approx. 200 ha) and Wolf Creek area (approx. 300 ha). Provided support on the Galton prescribed burn (approx. 400 ha). Developed a Stand Management Prescription for a restoration area on the east side of Columbia Lake, which will include the manual slashing (50 ha) of small diameter coniferous trees, followed by a prescribed burn (100 ha). Vegetation monitoring was completed on East Lizard, Hawk Road and Stoddart Creek. Approximately 60 wildlife trees were created in the Newgate, Grasmere and Skookumchuck and Canal Flats areas. A restoration plan was developed for the areas within the east sides of the White and Bull Rivers and the west side of the Elk River.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
53		Northern Leopard Frog Recovery	East and West Kootenay	MFLNRO	Species of Interest	Species-based	$195,053	A total of 23 egg masses were detected in the DLNA breeding area. Of these, 5 were protected from predators using cages. The first sign of metamorphosis was detected on July 12. Road mortality monitoring was conducted in collaboration with FLNRO staff and interns. PIT tagging was also implemented in the fall and a total of 15 individuals were tagged. A total of 7,600 free-swimming hatchlings were transferred to the Columbia Marsh reintroduction project at Brisco. 40 tadpoles were transferred to the Captive assurance colony at the Vancouver Aquarium.
54		West Kootenay Enhancement	West Kootenay	MFLNRO	Upland and Dryland Areas	Habitat-based	$225,661	Overview flights were completed working in collaboration with BC Parks and BC Wildfire Service, and five future treatment units were identified for ground truthing. The Sunshine Creek prescribed burn was completed in the fall of 2016. No burns were completed in Spring 2017 due to wet conditions. Burn planning was completed for Twobit 1 and Upper Tulip North. Conifer ingrowth was treated on a 13 ha polygon at the Syringa Park Marina treatment unit. Pre- treatment monitoring completed at Upper Tulip Creek North. Post treatment monitoring was completed at Twobit Creek 1 and 2, Greywolf South and Tulip South. Invasive plant surveys were completed at units previously slashed and burned Greywolf south and Tulip creek south. Spot treatments for knapweed were continued at Twobit Creek and North Deer Park. Wildlife trees were created on priority conservation lands.

No.	Project ID	Project title	Sub-region	Project lead	Action Plan alignment	Project type	FWCP funding	Project outcome
55		Wetland and Riparian Enhancement	Basin-Wide	MFLNRO	Riparian and Wetlands	Habitat-based	$225,036	Planning and monitoring was completed for several wetland restoration projects including Gyppo Logging Basin, Hoodoo, Lister Creek Spring, McCursy Dam, DL 570, and Walter's Pond. Phase 1 of the Cherry Creek wetland restoration project was completed by The Nature Trust of BC, and a total of 25 emergent and ephemeral wetlands with a total area of 3 ha were restored in October 2016. The old Goat Channel wetland project was completed and 4 wetlands totalling 3.4 ha were restored through a joint initiative between the FWCP and the Creston Valley Wildlife Management Area (CVWMA). The goal of the project is primarily to help the provincially Red-listed Northern Leopard Frog.