



Klickitat Management, Data & Habitat (YKFP) Annual Report for Project Activities from 1/1/2017 to 12/31/2017

BPA Project # 1988-120-35

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THE CONFEDERATED TRIBES AND BANDS OF
THE YAKAMA NATION
Toppenish, WA 98948

April 4, 2018

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Executive Summary

This Klickitat Management, Data & Habitat project (1988-120-35) is the overall umbrella for the Yakima/Klickitat Fisheries Project (YKFP) activities in the Klickitat Subbasin which includes a number of sub-projects that address facilities operations and maintenance (O&M); research, monitoring and evaluation (RME); and habitat protection and enhancement activities (KWEP). This project includes the overall management and administration, as well as the data management and habitat coordination efforts for the YKFP activities in the Klickitat Subbasin. This report summarizes project achievements relative to management oversight, policy development, project planning, administrative support, data management, communication of science results (project annual review, peer-reviewed publications), and watershed planning. Klickitat YKFP-related sub-projects include:

- Klickitat Basin R,M&E (1995-063-35);
- Klickitat Watershed Enhancement (1997-056-00);
- Klickitat Operations and Maintenance (1997-013-35);
- Klickitat Capital Design & Construction (1988-115-35);
- Klickitat Hatchery Design Support (1988-115-35).

Introduction

The Yakima/Klickitat Fisheries Project (YKFP or Project) is split into several sub-projects as listed above. The Management, Data & Habitat project includes the overall management and administration, education & outreach, and data management of the YKFP program. This project provides for all Yakama Nation (YN) management and coordination functions associated with the YKFP in the Klickitat Subbasin. The YKFP was established in a 1994 Memorandum of Agreement with the Washington Department of Fish and Wildlife (WDFW) project co-manager) to implement and evaluate artificial propagation methods used to restore and rebuild anadromous fish populations in the Yakima and Klickitat subbasins.

On June 3, 2003 the YN and the WDFW signed a Memorandum of Understanding which set forth the responsibilities of the YN and the WDFW regarding the transfer of Lyle Falls Fishway #5, Castile Falls Fishway, and the Klickitat Hatchery administration and operations from WDFW to the YN under the YKFP.

The YKFP is a complex and comprehensive project that requires significant management and administrative resources. It includes fish production and research facilities and numerous research programs. The YN serves as the YKFP “Lead Agency” and is responsible for implementation of all YKFP programs; including managing and directing YKFP project employees, associated project budgets, and

ensuring the quality and efficiency of project activities. In broad categories, the Yakama Nation is responsible to implement and coordinate:

1. Project planning activities, including those pertaining to facility construction and modifications;
2. Operation and maintenance activities at all YKFP facilities;
3. Project research activities including production of scientific reports and publications;
4. Design and development of a centralized database for Project use and dissemination to others;
5. Prioritizing and selecting habitat restoration and protection projects within the Klickitat Subbasin;
6. Development and submittal of funding proposals that ensure consistency with the 2008 MOA between the three Treaty Tribes and the FCRPS Action Agencies, and sufficient funding for YKFP operations.

To meet its lead agency responsibilities, the YN employs project staff including managers, scientists, watershed planner, data analyst, and office support personnel. Project management personnel works out of the YKFP's Central Office in Toppenish, Washington; the Wahkiacus Field Office houses scientists and technicians engaged in monitoring and evaluation, habitat management and data management activities for the Klickitat Subbasin. The YKFP also operates two fish passage and a NOAA funded hatchery facility in the Klickitat.

This Management, Data & Habitat contract funds the activities of YKFP executive management, project coordination and administrative staff necessary for discharging these responsibilities, including administrative support for day-to-day YKFP operations in the Klickitat Subbasin. Management services funded by this contract include oversight and support of the following YKFP programs:

- Klickitat Basin R,M&E (1995-063-35);
- Klickitat Watershed Enhancement (1997-056-00);
- Klickitat Operations and Maintenance (1997-013-35);
- Klickitat River Design & Construction – Expense (1988-115-35);
- Klickitat River Design and Construction – Capital (1988-115-35).

The success of all YKFP projects depends on the established administrative structure and funding provided by this contract. The YN's management and coordination responsibilities are expected to continue through and beyond the contract performance period. This umbrella management approach was developed through discussions with the Bonneville Power Administration (BPA) and the Northwest Power and Conservation Council (NPCC). WDFW participates in YKFP management through BPA Project 1995-064-25, YKFP Policy/Technical Involvement/Planning.

This contract has seven primary objectives:

1. Provide comprehensive management oversight of the implementation of YKFP activities.
2. Support YN policy development related to YKFP activities in the Klickitat Subbasin.
3. Coordinate and/or perform all tasks necessary to the development of project planning documents.
4. Provide required administrative support for Project operations, including financial management and accountability, and technical review.
5. Design, develop and manage YKFP's Data and Information System.
6. Schedule and conduct the YKFP's Columbia Gorge Fisheries and Watershed Science Conference, which often includes presentations by project scientists and regional partners.
7. Participate in watershed planning, protection and restoration initiatives by various agencies, groups and committees.
8. Participate in and develop education & outreach activities in the Klickitat Subbasin to inform the local community of the YKFP project and foster stewardship of aquatic resources.

1. Provide comprehensive management oversight of the implementation of YKFP activities.

Methods: The YKFP is co-managed by the YN and the WDFW. The Project is controlled by the Policy Group, which is made up of one representative appointed by YN and one representative appointed by WDFW. The Policy Group is responsible for policy development and planning. Annual planning documents are reviewed and approved by the YKFP's Policy Group. The Project's Science Technical Advisory Committee (STAC), consists of senior biologists from the YN and WDFW, and advises the Policy Group. The Policy Group works closely with BPA on funding and NEPA issues.

Results and Discussion: The YKFP Policy Group generally meets monthly to review project-related activities and to discuss and address issues as they arise. Minutes of meetings conducted during this project period (Jan. 1, 2017-Dec. 31, 2017) are presented in Appendix B below.

2. Support YN policy development related to YKFP activities in the Klickitat Subbasin.

Methods: Maintain Project policy development activities at a level that enables effective management of the YKFP. Coordinate the development of policies pertaining to Project activities, and ensure adequate oversight of said policies by YN elected officials and administration. Represent the YKFP in relations with other governments, organizations or entities affecting Project performance. As a co-managed project, it is essential that the YN and WDFW maintain adequate participation in Northwest Power & Conservation Council (NPCC) processes and other activities that affect the Project.

Results and Discussion: Key activities in the region that necessitated active YKFP involvement included the NPCC's Fish and Wildlife Program amendment process, and several other NPCC efforts such as Integrated Status and Effectiveness Monitoring Program (ISEMP), Action Effectiveness Monitoring of Tributary Habitat Improvement (AEM). In addition, YKFP was actively engaged in NOAA's development of the Mitchell Act Hatchery EIS and implementation plan. Both activities addressed matters that concerned the role of existing and future hatcheries in addressing fisheries mitigation requirements, and could potentially affect the scientific and regulatory framework and funding requirements for effective and adequate production. On the subbasin level, YKFP staff coordinated with the Washington Department of Ecology, Region 5 of WDFW, Columbia Land Trust,

Klickitat County, the Governor's Salmon Recovery Office and other regional and subbasin interests as part of ongoing regional planning efforts, and thereby further YKFP habitat restoration and fisheries efforts. On a local level, the YKFP has been tracking local government decisions on land use matters (e.g. Klickitat County land use--comprehensive plan updates, critical areas and shoreline updates) that affect aquatic health, habitat and carrying capacity of streams.

Key documents developed during this reporting period include:

Klickitat Master Plan (Spring Chinook Only) to be reissued to NPCC in early 2018. This Master Plan was used to guide EIS planning data collection by YKFP and BPA to develop new EIS specific to Spring Chinook hatchery reforms at the Klickitat Hatchery. NOAA's Hatchery Genetic Management Plan (HGMP) and All-H Analyzer documents were re-developed as Spring Chinook standalone documents for Master Plan submittal in early 2018.

Staff participated in climate change forums and training seminars in the region, to stay up to date on the latest climate research, in order to make informed decisions to guide adaptation strategies and project proposals. Project managers use this information to develop projects that target and attempt to ameliorate climate impacts, such as wet meadow and floodplain restoration projects.

Project staff participated in NOAA's Columbia Basin Partnership forum to evaluate YN or YKFP level of participation. Specifically, YKFP staff participated in the Mid-C Steelhead Prototype Team.

Project staff participated in post-Accord and Portfolio coordination with YKFP senior leadership and YN policy makers to develop outyear project paths. YKFP project staff participated in early discussion centered on YN engagement as a contributing agency for the Columbia River Systems Operations & FCRPS BiOP.

3. Coordinate and/or perform all tasks necessary to the development of project planning documents.

Methods: Maintain Project planning activities at a level that enables effective management of the YKFP. This proposal supports all YKFP planning functions for the Klickitat Subbasin. Coordinate necessary planning activities conducted by the YKFP, and represent the YN in all matters pertaining to these activities. Implement the YKFP's adaptive management policy by maintaining and keeping current all Project planning, operations, and YKFP decision documents. Coordinate these functions with the co-manager, science and technical advisory committee (STAC), and other agencies, as necessary.

Results and Discussion: Project personnel participated in the development of the

“Klickitat River Anadromous Fisheries Master Plan – Spring Chinook Only”. These activities included responding to comments on the Klickitat Master Plan (KMP) and supporting documents by BPA review team. A comprehensive list of YKFP Policy Group decision documents, used to adaptively manage the project, can be found using this Appendix C. YKFP staff met with and updated NMFS on implemented or in-progress projects for its Salmon Recovery Implementation Tracking System and NOAA Mid-C Steelhead Recovery Plan updates. Specific efforts include:

- KMP planning and updates to Yakama Nation Tribal Council and NOAA.
- Assist BPA to develop a new Environmental Impact Statement specific to Spring Chinook only actions.
- Assisted in completing HGMP (KMP appendix) for BPA and NOAA review.
- Staff provided technical information, assisted in development and editing the Biological Opinion report on Mid-C Steelhead in the Klickitat basin.
- Involvement in SRFB local technical committee for proposed habitat project review and ranking.
- Scientific review of PCSRF funding proposals as requested by CRITFC.
- Planned and participated in Klickitat Subbasin tours with various federal agencies and congressional staffers.
- Participated in NPCC/BPA Assets Review of Lyle Falls Facility.

4. Provide required administrative support for Project operations, including financial management, accountability and technical review.

Methods: The financial management/compliance monitoring of YKFP and BPA contracts requires extensive attention and effort. The compliance, accountability and contracting requirements are internal for both the YN and BPA. The administrative support component of the contract provides necessary personnel to perform secretarial, bookkeeping, accounting, and reporting tasks on a timely basis.

Results and Discussion: Quarterly reports, operational budget modifications, and year-end closeouts were completed as necessary. Project staff have engaged in preliminary planning efforts to assess Accord project status/drawdown, and post-Accord strategic planning.

5. Design, develop and manage YKFP's Data and Information System.

Methods: One of the YKFP's primary objectives is to provide knowledge about supplementation to resource managers and scientists throughout the Columbia River basin, so that it may be used to mitigate effects of hydroelectric operations on anadromous fisheries. The goal of this objective is to standardize, consolidate, centralize, and make accessible all data and information that is generated by the YKFP. The data and information management systems produced by this effort will be designed to ensure compatibility with BPA and NPCC electronic data and reporting requirements. Also, an efficient, affordable data transmission system will be designed that will allow appropriate personnel and scientists access to the data.

To ensure quality control, standardization, and proper storage procedures for all data and information collected, the YKFP will:

- Develop a standardized data management and quality control system consistent with the volume and diversity of the data collected;
- Supervise the reformatting and inputting of all data into a standardized system; and,
- Meet and coordinate with BPA representatives to review the database system's compatibility with existing BPA and NPCC data management systems.

The YKFP will maintain and update a data and information management and transmission system capable of handling the YKFP's existing and future generated data and information. The YKFP will further develop and enhance a web site (ykfp.org) consistent with regional standards. This system is accessible to appropriate researchers. YKFP data banks may be accessed by contacting project personnel, or electronically at ykfp.org.

Project data are generally entered into data collection forms using Microsoft Access and Visual Basic software. In most instances software procedures are in place to automatically capture detected PIT tag data and incorporate it into the Access form/table. This prevents data entry error. One data manager is employed, for the Klickitat Subbasin. This data manager oversees the maintenance, development, quality control, and backup of these databases. To the maximum extent possible, data are integrated with regional databases (e.g., PTAGIS, RMIS, etc.) as noted above. The YN is working with CRITFC and the Tribal Data Network project to employ data stewards who will assist us with continued development and improvement of data collection, exchange, and sharing strategies and tools.

Results and Discussion:

Major data management accomplishments to date include:

- Development and maintenance of ykfp.org web site to host information relating to Klickitat Basin project activities including: redd counts, juvenile and adult migration counts, habitat monitoring, technical reports and publications, project review/conference information, etc.
- Continuing computer, network and dataset administration, maintenance, and support for approximately 30 computers, a dozen servers and multiple printers at several facilities.
- Klickitat Data Management maintains technical relationships with multiple Internet Service Providers, routing traffic over fiber optic, coaxial cable, DSL phone lines, and Satellite uplinks. Virtual Private Networking is maintained as a necessary intranet among several facilities for remote monitoring, administration, and maintenance.
- Ongoing database development is required on in house applications to accommodate evolving technologies, and data collection protocols.
- Integration of PIT and CWT release and recovery data with [PTAGIS](#), [RMPC](#), and [Fish Passage Center](#) databases
- Production and support of data bases necessary to support BPA quarterly and annual reports (available via Pisces and cbfish.org)
- Production and support of data bases necessary to support NPCC project proposals (available via CBfish.org)
- Development and maintenance of databases to support the following M&E data collection activities: Klickitat habitat surveys; Lyle Falls adult trap counts; Klickitat smolt trap counts; Klickitat stream temperature and sediment data;
- Development of GIS maps as needed to support YNFP activities
- Development and maintenance of spreadsheets to summarize and track annual trends in above data
- Maintenance of hardware and software necessary to support the above, and continuous evaluation, testing, and implementation of new technologies that promise increased data management potential.
 - The Windows Domain controllers at the Klickitat Field Office were upgraded, allowing us to raise out local domain to a newer network functional level.
 - Implementation and testing of new technologies to provide for automated off site data backups between YKFP facilities has progressed significantly.

Project metadata are contained in information system management plans developed for each subbasin (Yakima and Klickitat) as well as in accompanying Microsoft Word documentation files for each database. Data sources for all tables and figures included in project annual reports are also well documented in accompanying Microsoft Word documentation files. To the maximum extent practical data managers are attempting to remain current and comply with available regional standards.

In addition to the above, the YKFP has and continues to share data in the following ways:

- Annual Yakima Basin and Klickitat Basin Science and Management Conferences
- Direct e-mails with those requesting project data. Entities with whom we have directly shared YKFP project information include: the Washington Department of Fish and Wildlife, the United States Fish and Wildlife Service, the US Forest Service NorWest Stream Temperature Project, the National Oceanic and Atmospheric Administration – National Marine Fisheries Service, U.S. Geological Survey, Pacific States Marine Fisheries Commission, Klickitat Salmon Recovery Lead Entity, Columbia River Inter-Tribal Fish Commission, Mobrand, Jones, and Stokes, and several other consultants and contractors.

6. Schedule and conduct the YKFP-sponsored Columbia Gorge Fisheries and Watershed Science Conference, which includes presentations by project scientists and regional experts.

Methods: An explicit goal of the YKFP is to provide knowledge about the use of hatchery production so that it may be used to mitigate effects on anadromous fisheries throughout the Columbia River Basin. The agenda, abstracts, and presentations from the conference are posted to the YKFP-Klickitat web site and provide an accurate and complete record of the proceedings. Conference records afford the opportunity to employ adaptive management and assist the Policy Group in Project planning and management activities.

Results and Discussion: The 2017 Columbia Gorge Fisheries and Watershed Science Conference was held on April 18, 2017 and the results are available [here](#). Klickitat Project annual reports associated with the umbrella project are identified here and available on the BPA website for this reporting period:

- YKFP M&E (#199506325) Annual Report.
- Klickitat Watershed Enhancement Project (#1997-056-00) Annual Report.
- Klickitat Operations and Maintenance (#1997-013-35)

7. Participate in watershed planning, protection and restoration initiatives by various agencies, groups and committees.

Methods: Ensure that environmental compliance procedures and documentation are managed consistent with subbasin and watershed planning and recovery documents. Promote and implement restoration, passage, screening and protection projects. Participate in watershed management forums. Provide comments on land use projects as applicable to watershed stewardship.

Results and Discussion: Staff participated in ongoing Gorge- or region-wide, multi-basin, multi-agency efforts such as the Columbia Gorge Cooperative Weed Management Area and the Interagency Sustainable Recreation Strategy Team, spearheaded by the USFS National Scenic Area, and an advisory committee for an integrated aquatic vegetation management plan for Rock Cr. Land use coordination occurred on various land use proposals and comprehensive, management and shoreline plan updates, involving rural, agricultural, scenic area lands and wild and scenic rivers designations, critical areas protection standards and possible issues with non-conforming uses. Staff reviewed and submitted comments on shoreline master program updates for Skamania County (by participation on the technical advisory committee), cities of Goldendale, Bingen and White Salmon (Klickitat County), and convened a technical review group to review Klickitat County's SMP update. Staff also reviewed and commented on the draft comprehensive river management plan for the Upper White Salmon Wild & Scenic River (USFS) and attended a workshop in preparation for the Columbia River Gorge Commission's Gorge 2020 National Scenic Area Management Plan update. YKFP project staff restored habitats in the Klickitat Subbasin directly or in conjunction with project partners. Highlights during this reporting period include, completion of the 6th and final phase of the Haul Road project in the mid-basin area to restore floodplain function and off-channel habitats. Elsewhere in the mid-basin, YKFP staff completed a large woody debris placement project in the White Creek watershed, where 477 logs were strategically placed using a heavy lift helicopter. The White/Teepee Creek Food Web Study completed 2017 field work in order to address effectiveness of habitat actions. At the Klickitat Delta (confluence with the Columbia River) KWEP staff collected inundation frequency data of deltaic landforms to evaluate potential factors limiting salmonid production. Additional information can be found in these projects and other accomplishments in Klickitat Watershed Enhancement Project (#1997-056-00) annual reports.

8. Participate in and develop education & outreach activities in the Klickitat Subbasin to inform the local community of the YKFP project and foster stewardship of aquatic resources. [SITC, Water Jam, etc.]

Methods: Expansion of the YKFP in the Klickitat Subbasin affords the opportunity to assist in ongoing educational outreach into the local community. Project staff will partner with the USFWS- Columbia Gorge Information and Education Office (<http://www.fws.gov/gorgefish/General/education2.htm>) and local teachers to

provide outreach activities that are informative, relevant to the local community, promote involvement, and improve stewardship of our natural resources.

Results and Discussion:

The Salmon in the Classroom program, a partnership between the USFWS and YN, has been running successfully for a number of years, providing in-class tanks for basin schools as well as varied offerings of in-class learning about the watersheds and the water cycle, salmon life cycle, adaptation and habitat. The fish are reared in class and released at the end of the session at Klickitat Hatchery by the students in a field trip that also includes a hatchery tour. Staff also delivers to schools participating in SITC “Culture of Salmon” talks reviewing natural and cultural history of the area as it relates to the relationship of Native “Salmon People” to salmon. The SITC season culminates with Water Jam, a two-day multi-agency outdoor learning event that seeks to reinforce with fun, hands-on activities all the salmon-related learning for area 3rd-5th (and occasionally 6th) grade students. YN provided a tribal storyteller and a “Restore-A-Stream” habitat restoration station as in years past, as well as a stream table station owned by KWEP and manned by UCD staff. In addition, staff presented on restoration projects and tours of Lyle Falls restoration and fishway facility to various classes, camps, educational and user groups, served as a natural history interpreter for a new Gorge Master Naturalists program (through OSU Extension) and for Cascade Mountain School, and worked with local science teachers to increase opportunities for experiential field learning in the basin for their students. YN staff, along with partners from Columbia Land Trust, USFWS and USFS, reprised the 2016’s successful inaugural watershed education field day for Goldendale 7th graders consisting of several stations (salmon dissection, macroinvertebrate sampling and i.d., water quality testing) plus a service component (weeding and planting) at KWEP & CLT’s Klickitat Haul Rd. restoration site.

9. References

ISRP. 2012a. ISRP Step 2 Review of the Klickitat River Anadromous Fisheries Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2012-12](#).

ISRP. 2013a. Response Review of the Klickitat Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2013-1](#).

ISRP. 2013c. Geographic Review Final Report, Evaluation of Anadromous Fish Habitat Restoration Projects. Northwest Power and Conservation Council, Portland, OR. [ISRP 2013-11](#).

Yakama Nation. 2012b. Klickitat River Anadromous Fisheries Master Plan. Prepared by the Confederated Tribes and Bands of the Yakama Nation in cooperation with Washington Department of Fish and Wildlife for the Bonneville Power Administration and Northwest Power and Conservation Council. Yakama Nation Fisheries, Toppenish, WA. July 2012 as amended August 3, 2012.

Yakama Nation. 2013a. Yakama Nation Response to the Independent Scientific Review Panel's Step Two Review of the Yakama Nation's July 2012 Klickitat Anadromous Fisheries Master Plan (ISRP 2012-12). Yakama Nation Fisheries, Toppenish, WA. January, 2013.

Yakama Nation. 2013c. Yakama Nation Response to the Independent Scientific Review Panel's Step Two Response Review of the Yakama Nation's Klickitat River Anadromous Fisheries Master Plan (ISRP 2013-1). Yakama Nation Fisheries, Toppenish, WA. April, 2013.

Keep, S.G., M.B. Allen, and J.S. Zendt. 2015. Comparison of electronarcosis and carbon dioxide sedation effects on travel time in adult Chinook and coho salmon. *North American Journal of Fisheries Management* 35:5, 906-912

Appendix A: Use of Data & Products

All data and findings should be considered preliminary until results are published in the peer-reviewed literature.

Where will you post or publish the data your project generates?

[Fish Passage Center](#)

[Yakama Nation Fisheries website](#)

[DART - Data Access in Real Time](#)

[RMIS - Regional Mark Information System](#)

[Yakima-Klickitat Fisheries Project website](#)

[BPA Pisces](#)

[StreamNet Database](#)

[cbfish.org](#)

[PTAGIS Website](#)

[Washington State SaSI](#)

For access to additional project data sets see <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, 'NSexternal' and password, 'SaveTheFish'.

Describe the accessibility of the data and what the requirements are to access them?

- Prosser and Roza dam daily count and trap sample data <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, 'NSexternal' and password, 'SaveTheFish'.
- Integration of PIT and CWT release and recovery data with [PTAGIS](#), [RMIS](#), and [Fish Passage Center](#) databases
- Production and support of data bases necessary to support BPA quarterly and annual reports (available via PISCES and [BPA reports](#) web site)
- Production and support of data bases necessary to support NPCC project proposals (available via [CBfish.org](#))

Additional data is available on the [ykfp.org](#) web site and by email contact through the data managers (Yakima Basin, contact Bill Bosch, bbosch@yakama.com; Klickitat Basin, contact Michael Babcock, mbabcock@ykfp.org). Project data managers continue to participate in the Coordinated Assessments process to develop pilot exchange templates for adult and juvenile abundance and productivity parameters. However, we continue to believe that the best way to prioritize our data management work load is to develop databases to store the status and trend data we have been collecting over many years as well as the web tools necessary to access these data in downloadable format. The pilot system to share Prosser and Roza dam daily count and trap sample data is an example of the progress we are making towards this end.

Appendix B: YKFP Policy Group Minutes



MEMORANDUM

DATE: January 01, 17
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for Jan, 2017 meeting @ Nelson Springs

No Meeting



MEMORANDUM

DATE: February 01, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for Feb, 2017 meeting @ Nelson Springs

No Meeting



MEMORANDUM

DATE: March 1, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for March 1st, 2017 meeting @ Nelson Springs

March 1, 2017
Policy Group Meeting, Nelson, 9:00 (minutes by Bill Sharp)

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Mary Todd Haight, Anthony Fritts.

1. Agenda Review

2. NEPA

- Pat discussed the [Columbia River System Operations](#) (CRSO) EIS process that is now underway. Nearly 250,000 scoping comments have been received. The first of a series of hearing is scheduled for March 9th. Oregon continues to support more spring spill than is currently agreed. Mary Todd pointed out that additional Snake River spill could affect BPA funds available. The schedule identifies a Final EIS in March 2021.
- Pat described how tribes are contemplating engagement into the process. Recent conversation with Ms. Bodi (BPA) identified possible options, one that included a potential for “cooperating agency” status, using a MOU with Actions Agencies and Cooperating Agencies. It may be challenging to develop such a MOU that is flexible enough for such a diverse group (tribes, agencies and entities).
- Related to this, Mary Todd described that BPA has engaged with other governments and entities about establishing Accord agreements and is targeting summer of 2017 to formulate any agreements. Roy Beatty is BPA’s lead negotiator in this effort.
- Klickitat Hatchery (KH) NEPA. Judy Woodward is contracted to lead the KH EIS process that will require a supplemental analysis which will revise the 3 alternatives, and pull the lower basin acclimation discussion from the EIS. Supplemental Analysis will require reengagement of public process.

- Relate to this is the WDFW SEPA processes. John Easterbrooks discussed that process and WDFW Commission engagement. John relayed that KH lease has been stalled in YN OLC shop. Update – mid day on March 1, YN OLC attorney forwarded revised lease to WDFW legal counsel and that should finalized soon.
- Jeff Stire – is BPA’s current Acting Fish & Wildlife Manager.

3. Budgets, Contracts

- BPA has formulated plan for contract budget gaps that extend beyond the Accord period. Accord projects that start in the first ½ of the year will be same project amount as FY17. FY18 funding is proposed to be level with no inflation adjustments. PIT tag purchases were to be held level.
- Bill and Mary Todd, discussed opening a “Contract Request” for Klickitat Design & Construction (EXP).
- Mary Todd, described that there are ~5 big capital construction project in-play at the end of the Accords and BPA accountants are being mindful of total cap budgets.

4. Construction, Maintenance, Mitigation

- MRS Coho Hatchery held 50% design meeting in February 2017. Group discussed potential affects from well field in wetland in SW corner of property. Identified a set of options which may include moving well location. These wells are 30ft deep. Additional geotechnical work will be conducted.
- MRS team are coordinating with WADOE on outstanding water rights matters. BOR (Joel Hubble is POC) and engaged in developing draft Report of Exam.
- MRS Coho 90% design is anticipated in April 2017 w/ final draft EIS late Fall 2017.
- MRS Coho. March/April 2018 breaking ground.
- KH Design and Construction (EXP and CAP) is advancing with BPA holding the contract as defined in Option 1 of BPA’s procurement guidelines. Next steps include MOA, Request for Offers (document to solicit Engineer- Procure-Construction firm).
- Bill provide update on Lyle Shop. YN Cultural folks can now access to snow-free site. Site visit set for March 6th. YKFP anticipates construction in late summer 2017.
- Cle Elum Hatchery same overhead waterline ruptured this winter resulting in water damage to breakroom area.
- John Marvin provided and update on Ahtanum Creek (Borton Packing property near City of Union Gap). YN will be acquiring 54 acres w/ 1 mile of creek. Opportunity of habitat enhancements that will benefit steelhead. 5 year process on this property purchase.

5. Project Reports

- a. Bill reminded folks about [Gorge Conference](#) (April 18th at the Discovery Center in The Dalles). Registration will be open on March 9th.
- b. No comments on reports provided.

6. STAC

- Dave reported that as of Feb 21st there are 23 kelts in the Cle Elum spawning channel. 13 of these are Naches fish (11 female and 2 males). Crews are now angling for additional males. There are discussions about fishing directly below Roza Dam. Resident males RBT will be used if needed
- Bill Bosch handout of Yakima Subbasin Spring Chinook run forecasting update. 2016 forecast was 4610 w/ actual of 5,510. The 2017 forecast is for ~3,560 wild and natural production, 2,760 hatchery origin (4/5 age adults).
- Easty indicated that with the 2017 forecasted numbers there will be a sport fishery. One fishing regulation change will be to open above Prosser (Wine County Rd. Bridge) to SR 241 Br (near Reservation boundary). WDFW creel work will include wanding and collection of snouts to identify S line fish and acclimation site origin. Regulation is two single point barbless.
- Dave updated the group on Bateman Island. A conference call/meeting will be March 1 (1PM), in Richland w/ US Army Corps and other stakeholders. Corp maybe taking the lead on this project. Possible solutions include moving marina to new location, however there is local opposition by folks want access to island. WDFW with MCRFEG have thoroughly evaluated need to causeway removal. WDFW and YN agree on causeway removal.
- PIT tag array has been installed on upper Manashtash Creek, now there are two arrays in place (lower and upper basin).
- Dave/Anthony discussed YKFP Decision document - conversation stemming from Internal PAR
- Dave Fast handout attach here

7. Next Meeting: Weds, April 26 2017 at Nelson Springs.



MEMORANDUM

DATE: April 27, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for April 26, 2017 meeting @ Nelson Springs**

Meeting called to order at 9:15

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Bill Bosch Anthony Fritts.

1. Agenda Review
 - a. No BPA Reps at this meeting
 - b. Klickitat Conference – Bill Sharp
 - c. Columbia River Systems Operation – EIS (CRSO-EIS)
 - d. Discussion by Bill Bosch re: conversation with Chris F. (hallway chat)

2. NEPA
 - a. Judy Woodward formerly of Crossing Borders now works for BPA is she will be doing supplemental EIS for Klickitat. Bill Sharp will work on getting a site tour set up with her.
 - b. Evaluate EIS Mitchell Act for Klickitat (if it covers us). Yes, the Klickitat is covered by the EIS
 - c. Washington DNR has purchased land that surrounds the Hatchery. WA ST DNR purchased property from Hancocks Timber Groups.
 - d. Policy Group Decision 2017-02 has been done for: Relevant biological design criteria for the incubation chiller system. NOAA funded action.
 - e. Currently all fish on site at Klickitat Hatchery are 100% Mitchell Act funded. Funding is never adequate, and has to be augmented each year.
 - f. CRSO-EIS
 - g. Massive sale undertaking, prepared in 1995 – system wide analysis was done
 - h. Yakama Nation got invited to be a Cooperating Agency
 - i. CEQ regulations based on specific evaluating of project, technically orientated.
 - j. Broder MOU/MOA – recognize/recognizes Accord policy
 - k. MRS Coho Hatchery – 10:00 a.m. conference call today re: MRS Coho Hatchery. Updates, draft EIS.

3. BUDGETS:

- a. Klickitat design startup is set for June 1, 2017
- b. M&E work on Yakima Basin
- c. Longer term budget
- d. Potential cliff on Accord funding. Contract budget periods and Accords (ending dates)
- e. BPA requesting budget agreements for short term?
- f. Process underway meeting set for June 21st, 2017

4. CONSTRUCTION:

- a. Policy Group Decision: Klickitat Hatchery NOAA grant
- b. WDFW/YN Lease and MOA in place
- c. Identifies WDFW and YN approval mechanism to advance capital improvements to hatchery
- d. Chiller in by end of summer 2017

5. PROJECT REPORTS

- a. The group discussed the need for discussions and potential development of a three-party MOA between BPA, YN and NOAA regarding long-term O&M funding for the Klickitat Hatchery. BPA encouraged YN to develop specifics regarding long-term O&M need.
- b. Science conference at Discovery Center went well this year.
- c. The group discussed communication about YKFP project activities within BPA. This is an ongoing discussion which Pat Spurgin will continue with Lydia Grimm of BPA.

6. STAC:

Science & Management Conference: Dr. David Fast & Anthony Fritts

- a. June 14 & 15 at CWU
- b. Agenda is pretty much completed
- c. Will be held in same room as last year.

Spring Chinook Forecast

- d. No difference in forecast (hand-out chart)
- e. No detections of our fish at Bonneville
- f. Two weeks from now, we should see a spike in numbers.
- g. Smolts are all out.
- h. 74 over McNary as on April 25, 2017 according to DART
- i. Lower Yakima sport fishery opens Friday, April 28, 2017 same as Ice Harbor Fishery

Steelhead Spawning Channel

- j. April 14, 2017 fish done spawning
- k. Fish didn't like the new set-up
- l. Releasing water from Easton, had to go with well water
- m. No more fish will be caught to go into spawning channel



MEMORANDUM

May PGM

Postponed

June PGM

Postponed

July PGM

Postponed



MEMORANDUM

DATE: August 21, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for August 9, 2017 meeting @ Nelson Springs**

Meeting called to order at 9:15

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Bill Bosch Anthony Fritts.

8. Agenda Review
 - a. Will make every third week of the month for Policy Group Meeting.
 - b. Next meeting is then scheduled for September 20, 2017 at Prosser at 1:00 PM
9. NEPA
 - a. Judy Woodward working with BPA as technical writer
 - b. Notice of Intent , goes out in October 2017, specific: spring Chinook
 - c. EIS process to ROD, should be around April 2018
 - d. MRS draft EIS – was asked if report was submitted? I don't get monthly reports from Mark J.
 - e. Large scale five-year plan EIS
 - f. MOU for tribes, as far as cooperative agencies in process. Be prepared to go in and make our organized and timely input.
 - g.
10. BUDGETS:
 - a. September 2018 Accords will be done
 - b. Term sheet? General statement on what an agreement would look like. Not an actual agreement more of an outline.
11. CONSTRUCTION:
 - a. Klickitat Hatchery, three phase power hooked in
 - b. RFQ at Lyle shop
 - c. Pond #25 is out of EIS compliance, preliminary investigator in process with getting it into compliance.
 - d. Have a new office trailer at Marion Drain, TSI placing in water alarms.
 - e. S-line fish collected?
 - f. Continued to monitor the wild
 - g. Will have pre spawn meeting next week.
 - h. Jack Creek acclimation site had a rough season.

- i. Generator continued to have problems, NC Machinery from Bellevue will be out to look at.
- j. Kelly Clayton updated permits and were good for another five-years.

12. STAC:

- a. Sockeye update 127 Sockeye at Roza.
- b. One summer at Roza on July 3rd.
- c. Collected 990 Sockeye from Priest Rapids, Grant County PUD required Facility Use Agreement this year, due to staff member of Whoosh falling in pond last year.
- d. Non-employees of Grant County PUD were not allowed on grounds unless they had a Facility Use Agreement.
- e. Steelhead Spawning Channel:
- f. Fish showed up in Naches trap on June 21 and ended Aug 3rd. 15-20 Naches fish and 10-15 Yakima fish.
- g. Estimated Yakima River Spring Chinook returns & escapement 7/1/17 (see attached table)

13. NEXT MEETING: September 20th, 2017 at Prosser at 1:00 PM

Bill B

Estimated Yakima R. Spring Chinook Returns and Escapement 7/11/2017

	Wild		Hatchery		Total	
	adults	jacks	adults	jacks	adults	jacks
RivMth	2,548	345	1,703	824	4,251	1,169
tribal blw	66	4	44	8	110	12
sport blw						
Prosser	2,482	341	1,659	677	4,141	1,018
tribal abv	93	48	62	95	155	143
sport abv						
Roza	1,446	192	1,596	721	3,042	913
Roza Brd	337	21	169	36	506	57
HC Removals			131	119		
SH to Lake Cle Elum		0	0	0		
Escape						
UppYak	1,109	171	1,296	566	2,405	737
Nach/Am	943	101				



MEMORANDUM

DATE: Sept, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for Sept, 2017 meeting @ Nelson Springs

No Meeting

Appendix C: YKFP Policy Group Decision Documents

Document ID	Date	Description
2001-01	2/21/2001	Easton Ponds Coho Acclimation
2002-01	3/26/2002	Easton Ponds Coho Smolt Acclimation
2002-02	3/26/2002	Evaluation of energy expenditure in adult salmon and steelhead migrating upstream in the Columbia and Snake rivers: understanding the influence of delay, fallback, water temperature, and dam operations on fish performance.
2002-03	3/26/2002	Approval and implementation of the preferred domestication experimental design for upper Yakima River spring chinook salmon.
2002-04	3/26/2002	Determine the effects of genetics and food on age 0+ precocial maturation of spring chinook salmon at the Cle Elum Hatchery.
2002-05	3/26/2002	Determination of YKFP action on supplementation fish that result from adults with high and/or very high BKD levels.
2003-01	5/20/2003	Disposition of fry from predator and behavioral dominance assays.
2003-02	12/1/2003	Monitoring of the wild control line of spring Chinook in the Naches River system.
2003-03	12/1/2003	Develop Yakima Basin Master Plans for steelhead, fall chinook, sockeye, and lamprey.
2003-04	12/1/2003	NOAA Fisheries precocial minimization: Test whether early ponding and growth manipulations can significantly reduce the incidence of precocialism, without unintended negative consequences.
2004-01	9/15/2004	Change the containment objective for cutthroat trout from 0% impact to not to exceed 10% impact in the main stem and 40% impact in the tributaries. Investigation of the cause of impacts for resident trout (rainbow, cutthroat) in tributaries will be initiated at or before decreases of 20%.
2006-01	5/24/2006	Terminate the precocial minimization (normal versus slowed growth feeding regime) experiment at CESRF after three brood years of study. Direct CESRF personnel to use the normal growth feeding regime for all ponds beginning with brood year 2005 fish.

Document ID	Date	Description
2006-02	9/15/2006	Do not collect broodstock for the wild control line during 2006 because of potential harm to the Naches population and the uncertainty of being able to collect a sufficient sample size.
2006-03	12/18/2006	Test the effect of emergence timing on age-1 male maturation (precocious parr) in Yakima River Spring Chinook salmon.
2007-01	2/26/2007	Authorize CESRF personnel to implement a control/treatment study at the acclimation sites using the BioTransfer (saltwater transfer) diet beginning with brood year 2005 fish.
2007-02	2/22/2007	Do not collect Naches population wild control broodstock unless Naches Basin estimated escapement is 500 or more adults.
2007-03	3/28/2007	Conduct genetically based pedigree analyses to identify the treatment origin of hatchery fish when pre-season forecasts suggest that fewer than 120 HC fish will return to the upper Yakima and prioritization of adult HC pedigree is higher than spawning channel fry pedigree.
2007-04	8/17/2007	Based on current information on the number of HC broodstock on hand plan on suspending the Reproductive Success spawning channel study for just 2007. Reassess the plan subject to the results of the first broodstock sort. Suspended tasks would include work associated with monitoring spawning adults, maintaining fry traps, and sampling fry production.
2008-01	8/5/2008	Authorize the Yakama Nation to proceed with the proposal to re-establish a summer run component to enhance viable salmon population parameters for Fall Chinook in the Yakima Basin. The Yakama Nation will work with WDFW to develop monitoring and evaluation measures for adult returns to the spawning grounds that are sufficient to address concerns regarding spatial and temporal overlap and potential genetic introgression with spring Chinook. The entire proposal including M&E measures will be included in the Fall Chinook Master Plan.
2013-01	2/28/2013	Transfer Accords budget for Yakima steelhead acclimation facilities to corresponding budgets for construction, operation and maintenance of the hatchery facilities at the Holmes property.
2013-02	12/13/2013	Approve and forward the spring Chinook, fall Chinook, and coho HGMPs by the Yakama Nation and WDFW to NOAA Fisheries for ESA consultation purposes.
2014-01	8/7/2014	Approve research at the CESRF to study the effect of parent age on the rate of minijack production among male progeny of spring

Document ID	Date	Description
		Chinook and the effect of parent age, size, and egg size on the growth (length and weight) of spring Chinook at the Fry and Parr stage.
2014-02	10/23/2014	Approve the use of the CESRF spawning channel for steelhead kelt reproductive success research beginning in the late winter/spring of 2015.
2015-01	08/11/2015	Suspend collection of broodstock for the Naches wild control line in 2015 because of potential harm to the Naches population due to high water temperatures.
2016-01 Klick/Lyle shop construction	02/24/2016	Relocate existing bullpen at Lyle Falls trap and construct a new 2400 sq. ft. pre-engineered steel building (40' wide, 60' long, and 15' high) with 6" thick concrete slab on grade to accommodate the weight of the reach fork (30,000 lbs).
2016-02 Klick/Lyle shop construction	04/26/2016	Prepare area and construct new truck shop/maintenance building at the Klickitat Hatchery to support YKFP hatchery operations.
2016-03 3-phase power KPUD	7/15/2016	Contract with KPUD to upgrade electrical service to the Klickitat Hatchery.
2016-04 Suspend Naches Wild Control	7/19/2016	Suspend collection of wild control line broodstock from the Naches River during BY2016 due to concerns about the impact to the population.
2017-01 Naches Wild Control – periodic sampling	3/1/2017	Approve periodic (e.g., generational rather than annual) collection of Naches wild control line brood stock (eggs).
2017-02 Install chilled water system at Klickitat Hatchery	4/26/2017	Procure and install chilled water system into existing incubation water supply at the Klickitat Hatchery.