



KLICKITAT
MANAGEMENT, DATA &
HABITAT PROJECT

MULTI-YEAR REPORT
May 1, 2008 – SEPTEMBER 30, 2010
PROJECT #1988-120-35

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Introduction

The Klickitat Management, Data and Habitat (MDH) project facilitates the project management, data management, habitat restoration and management activities for the Yakima/Klickitat Fisheries Project (YKFP), a joint project of the Yakama Nation (YN) and the Washington Department of Fish and Wildlife (WDFW). The YKFP has been working to reintroduce and/or increase the populations of all anadromous species that historically existed in the Yakima and Klickitat subbasins. As the Lead Agency for the YKFP, the YN is responsible for YKFP project planning and design in the Klickitat Subbasin; the construction, operation and maintenance of YKFP facilities; the monitoring and evaluation of YKFP research activities; and habitat and passage improvement activities. The Lead Agency is also responsible for insuring that there is adequate funding for all YKFP Project activities. The magnitude and scope of the YKFP requires the level of management involvement described below. In order to properly implement all YKFP Project activities, essential personnel must be assigned to supervise and manage the Project's field and support personnel.

The Klickitat-Only MDH contract covers the Yakama Nation's management and oversight of the following YKFP activities:

2. Policy Development, Planning and Administrative Support;
3. Finance and Administrative Support;
4. Data and Information Management/Processing;
5. Annual Reviews;
6. Klickitat Field Office Operations;
7. Klickitat Subbasin habitat coordination and implementation;
8. Klickitat Hatchery Complex reforms efforts
9. Education and outreach;
10. Subcontracts for: Legal/Policy Analyst and Engineering Services;
11. Status Reports;
12. Annual Report.

The primary objectives of the three components of the Klickitat - MDH project are described below.

Project Management

Project management, under the leadership of the Project Advisor/Policy Coordinator (PAPC) Melvin Sampson, is responsible for the overall management of the various components of the YKFP which include three supplementation hatchery complexes, Monitoring and Evaluation (M&E) for those programs, Operations and Management (O&M) for all project facilities, construction, data management, and all habitat-related actions on those properties. Several of these project components have stand-alone projects (i.e. KWEP, K-M&E); the K-MD&H serves as the administrative support project that provides policy oversight and coordination to facilitate a unified approach to project management for the YKFP.

The Klickitat production program currently consists of the Klickitat Supplementation and Harvest Augmentation Hatchery Complex, managed by Jason Rau, which supplements natural populations of spring Chinook and steelhead, and releases fall Chinook and coho for harvest augmentation purposes.

The Management project is also responsible for the Monitoring and Evaluation of all the research conducted under the YKFP. This component of the overall program is under the direction of the Senior Research Scientist, Dr. David Fast, and is responsible for directing all research conducted under the project, evaluating results of research projects, and using adaptive management to redirect those research programs as needed to address critical uncertainties regarding supplementation and other research objectives of the YKFP. These decisions are made jointly with WDFW under the auspices of the Scientific and Technical Advisory Committee (STAC) which reports directly to the Policy Representatives. William Sharp is also on the Management Project as the lead for the Klickitat River component of the YKFP.

Project Operations and Maintenance (O&M) is also under the direction of the Project Advisor/Policy Coordinator (PAPC) through the Management project. The O&M project is responsible for maintaining all facilities under the YKFP in operational condition so as to achieve the overall objectives of the project. Operations are under the direction of the various project managers, and the maintenance component is under the lead of Travis Hull.

Data Management

Data Management, under the direction of William Bosch, is responsible for collection, organization, storage, and analysis of all data collected under the YKFP umbrella. This component is also responsible for keeping records of management decisions, preparing and submitting reports to BPA and manuscripts for peer reviewed publications.

Habitat

The Habitat component of the YKFP in the Klickitat subbasin is lead by William Conley, under the direction of the Project Manager. The Habitat section is responsible for identifying acquisition opportunities of biologically important land along the Klickitat Rivers to protect from development land in these watersheds with the objective of maintaining or improving habitat benefits for fish production, and ultimately returning these watersheds to a more normative state. This is also achieved by habitat improvement projects to restore hydraulic function and habitat connectivity.

The following activities comprise the scope of work under the Klickitat MDH project:

Watershed Coordination

Coordinate YKFP management and policy development with other government agencies and decision-making bodies. Implement cooperative planning and policy development with lead agencies including WDFW, BPA, NPCC, NOAA Fisheries, CBFWA, and other federal, state and local government agencies. Coordinate with lead agencies with appropriate Tribal officials and personnel when necessary.

Review Klickitat YKFP Program through project & provincial reviews. These are a vital part of the annual review and planning cycle that contributes to the research considerations for Klickitat activities within the YKFP.

Identify and Select Projects

Coordinate with federal, state and local government and non-governmental organizations with respect to anadromous fish, stream flows and related matters to promote fish and riparian habitat and streamflow (passage) protection and restoration; monitor recovery.

Future discussions between BPA and YN will ensue during this contract period to better define which activities are eligible for BPA funding in the YN/Klickitat County permitting and planning process.

NOTE: Some technical habitat, water and passage matters arising within the Klickitat subbasin will be handled by the Klickitat Subbasin's YKFP Habitat Specialist, who is funded under the YKFP's Klickitat Watershed Enhancement Project (Project # 1997-056-00) contract for the Klickitat Subbasin. Specific Tasks are identified in that separate contract.

Produce Data Management Plan

Maintain an up-to-date Information System Management Plan (ISMP) by identifying the YKFP's near- and long-term data and information management needs within the Klickitat basin. Develop methods to standardize, consolidate and centralize all data and information that is generated within the basin. Design an information management and transmission system (hardware and software) capable of handling existing and future generated data, providing for quality control, standardization, and proper storage procedures. Identify mechanisms where by various end users may be identified and provided adequate access to appropriate data and or information. Periodic modifications in the ISMP will reflect changes in project scope and developments in data design. Management strategies may evolve based on recommendations and feedback received from peer review and/or hardware and software demands.

Additional Notes: The ISMP cannot, by nature, be a static document. It provides a snap shot of the state of the body of YKFP Data collected on the Klickitat basin at a certain point in time along with short and long term strategies for managing that body of data. Interaction with all the data will be ongoing. The plan will evolve as progress is made. Different aspects of the data will take the focus at different points in time.

Implement the ISMP by monitoring the data collection systems of the YKFP, supervising the input of all data into a standardized system and coordinating any necessary reformatting of existing data. Verify that proper data validation procedures are followed. Assure that appropriate hardware and software are used to provide timely data and/or information accessibility to appropriate researchers.

Acquire appropriate Klickitat basin data from collection activities performed by YKFP and other relevant entities. Ensure quality control, standardization and proper storage procedures for all data and information acquired. Identify the appropriate data and/or information to be shared with various entities. For a given entity make data available at a useable resolution through appropriate media. This could include electronic file transfers for specific data requests or web pages to disseminate more general information and/or data.

Additional Notes: Information is disseminated from the Klickitat field office on a case by case basis when authorized by the manager of this project. Where appropriate standardized databases or data sets exist, ensure proper formatting and transfer of data from collection activities performed by YKFP within the Klickitat basin to the regional data structures. The YKFP transfers PIT-tag data to PTAGIS, coded wire tag information to the Regional Mark Processing Center and Hatchery, and release data to the Fish Passage Center.

Abundance estimates for Klickitat River target species are achieved through a cooperative relationship between YN and WDFW. These abundance estimates are shared through StreamNet. YKFP staff continually monitors and often participate in discussions and exercises aimed at developing regionally standardized data structures.

Outreach & Education

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://gorgefish.fws.gov/springcreek/springeducation.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.

Klickitat & White Salmon Rivers Fisheries and Watershed Science Conference. Presentations made by YKFP, NMFS, State, County, US Corps of Engineers, WDFW, USFWS and other interested parties to share Fisheries information pertaining to the Washington Gorge. This review, along with the Yakama YKFP PAR Conference, afford an opportunity for project personnel to interact with scientists who have a viable interest in supplementation and the resource.

This conference will be recorded, and a electronic document will be produced that provides an accurate and complete record of the proceedings. Records will assist the YKFP in planning and management activities, and will be made available to regional scientists. The documentation from the PAR Scientific and Management Review and Klickitat Science Conference will be sufficient to support the adaptive management requirements of the YKFP EIS policy and program strategic planning for YKFP project direction.

Coordinate and oversee implementation of all YKFP activities in the Klickitat Subbasin, including development of statements of work, development of YKFP sponsored project and contract budgets, compliance with all applicable laws and environmental review requirements, subcontractor procurement and management, fiscal management, financial reporting, annual operating plan development, performance of YKFP research, monitoring/evaluation and operation/maintenance contracts, master plan development, and attendance at training, conferences and meetings.

Manage & Administer Project

Additional Notes: Expansion of YKFP supplementation activities in the Klickitat Subbasin requires the support of the YN Hatchery Manager (HM) to facilitate integration of proven hatchery reform technologies from the YKFP's Cle Elum Supplementation & Research Facility (CESRF) to the Klickitat Hatchery. Integration of the 60-year-old

Klickitat Hatchery facility with hatchery reform efforts will require a substantial engineering design effort, which is now covered under the Passage & Hatchery (expense) project. The HM, with 8 years of work experience at the CESRF, provides the institutional knowledge of YKFP facility requirements useful to integrate YKFP fish culture practices and assist with engineering planning and design development.

Coordination of NPCC Step process: YKFP staff will coordinate with BPA and NPCC to sequence Final Klickitat Master Plan submittal and future designs for the EIS process.

Management, Data & Habitat –May 2008

Management

The Yakima/Klickitat Fisheries Project (YKFP) remains an all-stock initiative for the Yakima River Subbasin and the Klickitat River Subbasin. The Project operates under a co-management arrangement with the Washington Department of Fish and Wildlife. This arrangement is established through a Memorandum of Understanding (MOU) with WDFW. The Yakama Nation serves as the Lead Agency responsible for the day-to-day operations. Aside from special circumstances, we formally convene a monthly meeting which includes representatives from WDFW and BPA and various Project personnel. In most instances, our decision-making process is by consensus and usually results in a "decision document" for the record. This month, we will highlight the YKFP's production activities.

We also operate the Klickitat Hatchery, located a few miles from Glenwood, WA. We transitioned operations of the facility from the state of Washington to the YN. It's one of the earlier Mitchell Act Hatcheries which is funded primarily with Mitchell Act-designated funds. Since our take-over, there's been operational site review of the complex, and through the efforts of the assigned personnel for the Klickitat River sub-basin, there's been some positive upgrading of the complex and also passage within the subbasin. We've also established a field office at Wahkiacus out of which our biologists and field technicians operate to conduct monitoring and evaluation work throughout the basin.

YKFP-Klickitat Management, Data and Habitat.

Reviewed Draft Lyle Falls EIS public meeting comments and assisted BPA in formulating initial response.

Issued the *Klickitat River Anadromous Fisheries Master Plan* to both the BPA and NPCC. The Plan is now in Step I. In early summer '08, a presentation will be made. We will attempt to get into Step II by early Fall '08.

Continued Education & Outreach through Salmon in the Classroom project at several area schools (Lyle, Klickitat, Goldendale, Wishram, Glenwood) and at annual culminating "Water Jam" event in Underwood, WA. .

Developed internal strategy for Mitchell Act interagency FY09 funding proposals and strategies to address overall funding shortfalls to the Mitchell Act Program.

Attended Mid-Columbia Steelhead ESA Forum meeting; began review of draft Mid-C steelhead plan and Klickitat and Rock Creek Management Unit Plans. Comments on this material are due June 5th. Informed NOAA that a Gov't-to-Gov't meeting is necessary to inform YN Tribal Council of Plan objectives and timelines. Began work as Mid-C Recovery Implementation Team member.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Field crews continued steelhead spawner surveys in mainstem tributaries of the Klickitat River as river conditions permitted. Continued operation of rotary screw traps.

Began operation of the Lyle Falls adult ladder to monitor steelhead and spring Chinook escapement into the Klickitat Basin. River conditions and water temperatures appear to have delayed run, as only 5 spring Chinook have been recorded to date (5/22/08) in the adult trap.

Project staff worked with senior YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Developed SRFB project grant proposals for habitat restoration. Assisted Columbia Land Trust in proposal development for a key land acquisition in the highest priority reach in the lower basin near the town of Klickitat.

Submitted job announcement for Habitat Biologist to assist with project development, permitting and implementation.

Project staff worked with senior YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Management, Data & Habitat – June 2008

Management

Majority of the contract funding for the YKFP is provided by the Bonneville Power Administration consistent with the authorization contained in the Power Act. The Management support personnel are assessed the administrative responsibility of coordinating and maintaining assurance that everything is in compliance and current. This has evolved into a major assignment for the respective assigned personnel.

YKFP-Klickitat Management, Data and Habitat.

Continued strategy sessions with key personnel and BPA to begin steps necessary to implement MOA elements for Klickitat expanded activities. Developed Design & Construction Project.

Received and began reviewing Independent Scientific Review Panel (ISRP) comments on the *Klickitat River Anadromous Fisheries Master Plan* for both the BPA and NPCC. Key staff will present Plan to NW Power & Conservation Council at July meeting.

Continued Education & Outreach presentations at Camp Chaparral and tours of Klickitat Hatchery.

Attempted to develop internal strategy for Mitchell Act interagency FY09 funding proposals and strategies to addresses overall funding shortfalls to the Mitchell Act Program. Policy guidance is urgently needed on this matter.

Reviewed Mid-Columbia Steelhead ESA Klickitat Subbasin Recovery Plan and submitted comments to NOAA.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Field crews finalized steelhead spawner surveys in mainstem tributaries of the Klickitat River as river conditions permitted. Continued operation of rotary screw traps.

Continued operation of the Lyle Falls adult ladder to monitor steelhead and spring Chinook escapement into the Klickitat Basin.

Project staff worked with senior YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Tracked Salmon Recovery Funding Board (SRFB) project grant proposals for habitat restoration. Finalized Columbia Land Trust proposal for a key land acquisition in the high priority reach in the lower basin near the town of Klickitat.

Held job interviews for Habitat Biologist to assist with project development, permitting and implementation.

Project staff continued work with YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Management, Data & Habitat – July 2008

YKFP-Klickitat Management, Data and Habitat.

Presented the *Klickitat Master Plan* (KMP) to the Fish & Wildlife Committee of the Northwest Power and Conservation Council. YKFP staff gave a PowerPoint presentation that highlighted the KMP's hatchery reform measures and habitat restoration actions. Based on feedback by the Committee, Step II approval should be forthcoming at the August 2008 meeting.

Began coordination for NPCC/YN Congressional staffers' tour of lower Klickitat Basin for August 20th. Hatchery reform measures will be the focus and need for federal funding for the Wahkiacus Hatchery.

Prepared handouts for Paul Ward for Washington, DC trip with CRITFC stressing Mitchell Act appropriations and hatchery reform.

Met with engineers and key BPA personnel to refine steps to implement MOA elements for Klickitat expanded activities. Developed BPA PISCES online account for the Design & Construction Project.

Continued Education & Outreach presentations at Camp Chaparral and tours of Klickitat Hatchery.

Continued attempt to develop internal strategy for Mitchell Act interagency FY09 funding proposals and strategies to address overall funding shortfalls to the Mitchell Act Program.

Prepared PCSRF grant application for Castile Falls 4/5 fishway hydraulic improvement work.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Continued operation of rotary screw traps.

Continued operation of the Lyle Falls adult ladder to monitor steelhead and spring Chinook escapement into the Klickitat Basin.

Project staff continued working with senior YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Conducted PIT-tagging of ~7,000 juvenile spring Chinook at the Klickitat Hatchery.

Worked with Pacific States Marine Fisheries and Harbor Engineering to outline basin-wide PIT-tag detection system.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Selected Habitat Biologist to assist with project development, permitting and implementation.

Project staff worked with YKFP coordinators to develop strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Began work on upper Klickitat habitat projects along mainstem and in upper White Creek drainage.

Management, Data & Habitat August 2008

Management

Our routine operational format centers on a Policy Group meeting which includes representation from WDFW and the YN, with participation from BPA. All critical issues are addressed each month in the Policy Group meetings.

YKFP-Klickitat Management, Data and Habitat.

Presented the Klickitat Master Plan (KMP) to the full Northwest Power and Conservation Council. YKFP staff gave a PowerPoint presentation that highlighted the KMP's hatchery reform measures and habitat restoration actions. The action was passed by NPCC to proceed to Step II of the Master Planning process.

Held NPCC/YN Congressional staffers' tour of lower Klickitat Basin on August 20th. Tour went very well and key congressional staff and BPA, DOE and others were informed.

Coordinated with project engineers and key BPA personnel to finalize the Klickitat Design & Construction contract (BPA PISCES online SOW).

Continued Education & Outreach presentations at Camp Chaparral and tours of Klickitat Hatchery.

Assisted Hatchery Manger with emergency operation to repair main hatchery water line and with financial account for invoicing NOAA Mitchell Act Program.

Submitted and received approval for PCSRF grant application for Castile Falls 4/5 Fishway Hydraulic Improvement project.

Submitted and received approval for PCSRF grant application to assess habitat conditions at the Klickitat Delta at confluence with Bonneville Pool, to investigate potential impacts to juvenile and adult salmonids.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Began first pass for spring Chinook spawner surveys.

Conducted habitat inventory surveys.

Continued operation of rotary screw traps.

Continued operation of the Lyle Falls adult ladder to monitor steelhead and spring Chinook escapement into the Klickitat Basin.

Coordinated strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Assisted with first spawning of spring Chinook at Klickitat Hatchery.

Continued to outline basin-wide PIT tag detection system with Pacific States Marine Fisheries and Harbor Engineering.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Began Swale Creek In-Channel Restoration Project.

Received bids for Teepee Creek Fish Passage Improvement project for late summer /fall construction period.

Hired new habitat biologist to assist with project development, permitting and implementation, and began orientation process.

KWEP biologist finalized strategies to implement MOA and identify staffing, subcontract and additional equipment needs.

Continued work on upper Klickitat habitat projects along mainstem and in upper White Creek drainage.

Management, Data and Habit –September 2008

YKFP-Klickitat Management, Data and Habitat.

Project staff continued Step II activities by developing PISCES and subcontracts to initiate the remaining design associated with Lyle, Castile Falls and begin the pre-scoping for hatchery upgrades.

Worked with Hatchery Manager to compile billing for emergency repair of main hatchery water to NOAA Mitchell Act Program.

Assisted in proposal evaluation with CRITFC staff for the 2008 Pacific Coastal Salmon Recovery Project round of grant funding.

Participated in Education and Outreach at the Pathfinder Outdoor School: involved Klickitat County 8th grade students in lessons in watershed health and aquatic macroinvertebrate sampling.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Project staff developed draft budgets for expanded PISCES work statements under the new Fish Accords.

Finalized spring Chinook spawner surveys throughout the basin; results will be presented in next month's report.

Conducted habitat inventory surveys.

Continued operation of rotary screw traps.

Continued operation of the Lyle Falls adult ladder to monitor steelhead and spring Chinook escapement into the Klickitat Basin.

Assisted with final spawning of spring Chinook at Klickitat Hatchery.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Finalized Swale Creek in-Channel Restoration Project.

Reviewed bids for Teepee Creek Fish Passage Improvement project for late summer /fall construction period.

Began hauling large woody debris to the upper Klickitat In-Channel job along the upper Klickitat River mainstem.

Outlined tasks and began orientation of new Habitat Biologist to assist with project development, permitting and implementation.

Management, Data and Habit –October 2008

YKFP-Klickitat Management, Data and Habitat.

On October 13 provided briefing to FWLO Committee of current activities, updates and challenges ahead in the Klickitat Subbasin.

Project staff continued KMP Step II activities by developing PISCES short-term and long-range contracts. Began engineering survey work for the Klickitat Hatchery bridge and spur road. Began coordination with YN Cultural Resources to set up and initiate cultural resources inventory of project area.

Submitted project proposal to NOAA Mitchell Act for design work of re-development of Pond #26 at the Klickitat Hatchery.

Education and Outreach presentations at the Columbia Gorge Community College, Environmental Science Program.

Submitted a pre-proposal to the Pacific Offshore Shelf Tracking Project, where juvenile salmon would be tracked via an acoustical array in the nearshore Pacific Ocean.

Began planning effort for second annual Klickitat/White Salmon Fisheries and Watershed Science Conference to be hosted by YKFP in late February 2009 at the Discovery Center in The Dalles, OR.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Continued developing draft budgets for expanded PISCES work statements under the new Fish Accords.

Completed spring Chinook spawner surveys throughout the basin. A total of 76 redds were enumerated. This represents only 73% of the 10-year average for wild spring Chinook in the Klickitat Subbasin. Only a single live fish, and no redds were observed above Castile Falls this year.

Continued operation of rotary screw traps.

Began gravel sampling at 13 sites, to continue long-term monitoring and tracking of fine sediment inputs to the Klickitat River.

Continued operation of the Lyle Falls adult ladder to monitor steelhead, fall Chinook and early coho escapement into the Klickitat Basin.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Completed work on Swale Creek In-Channel Restoration Project: five large log jams over 900 linear feet of stream were constructed in collaboration with the Regional Fisheries Enhancement Group.

Teepee Creek Fish Passage Improvement project was contracted and work began for arched pipe culvert placement.

KWEP staff began initial development work for the East Fork White Creek Bridge (IXL road) crossing project.

Completed hauling large woody debris to the upper Klickitat In-Channel job along the upper Klickitat River mainstem.

Worked with BPA to extend performance period and initialize expanded funding for KWEP. New project period will begin March 1, 2009.

Conducted hydraulic permitting and NEPA assistance for KWEP project and assisted Harbor Engineering with the Klickitat Hatchery Bridge construction project.

Management, Data and Habit –November 2008

YKFP-Klickitat Management, Data and Habitat

Project staff continued Step II activities by developing PISCES short-term and long-range contracts. Met with project engineers to finalize brood collection at Lyle Falls and Castile Falls facilities. Focused discussion on Klickitat Hatchery EIS pre-scoping and actions needed. Archaeological clearance work for bridge and spur road was completed, with report to follow.

Presented Klickitat Master Plan to Tribal Inter-Disciplinary Team (IDT).

Performed Education and Outreach at the local schools including Salmon in the Classroom.

Submitted a final proposal to the Pacific Offshore Shelf Tracking Project, where juvenile salmon would be tracked via an acoustical array in the nearshore Pacific Ocean.

Contacted and finalized speakers for the second annual Klickitat/White Salmon Fisheries and Watershed Science Conference to be hosted by YKFP on March 10th 2009 at The Discovery Center in The Dalles, OR.

Coordinated final SOW and budget for Klickitat Design & Construction Project (BPA #1988-115-35), along with subcontracts.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Finalized SOW and budget for expanded PISCES work statements under the new Fish Accords.

Continued coho surveys and completed fall Chinook surveys throughout the lower basin; results will be presented in subsequent reports.

Continued operation of rotary screw traps.

Continued gravel sampling at 13 sites, to continue long-term monitoring and tracking of fine sediment inputs to the Klickitat River.

Continued operation of the Lyle Falls adult ladder to monitor steelhead, fall Chinook and coho escapement into the Klickitat Basin.

Hired vacant technician position and conducted interviews for new biologist position.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Completed White Creek/Teepee Creek Fish Passage Improvement projects where bridge and arched pipe were installed. These projects re-open the majority of the White Creek drainage for steelhead colonization.

Completed hauling large woody debris to the upper Klickitat In-Channel job along the upper Klickitat River mainstem. Received project extension until May 31, 2009 to complete installation of LWD.

Worked with BPA to extend performance period and initialize expanded funding for KWEP. New project period will begin March 1, 2009 and be a 2-year budget, moving the project to a more convenient schedule outside of field season.

Conducted hydraulic permitting and NEPA assistance for KWEP project as well as assisted Harbor Engineering for the Klickitat Hatchery bridge construction project.

Management, Data and Habit –December 2008

YKFP-Klickitat Management, Data and Habitat.

Project staff continued Step II activities by developing PISCES short-term and long-range contracts. Met with project engineers to finalize brood collection at Lyle Falls and Castile Falls facilities. Focused discussion on Klickitat hatchery EIS pre-scoping and actions needed. Archaeological clearance work of bridge and spur road was completed, with report to follow.

Presented Klickitat Master Plan to Tribal IDT.

Provided Education and Outreach to local schools.

Submitted a final proposal to the Pacific Offshore Shelf Tracking Project, where juvenile salmon would be tracked via an acoustical array in the near shore Pacific Ocean.

Contacted and finalized speakers for the second annual Klickitat/White Salmon Fisheries and Watershed Science Conference to be hosted by YKFP on March 10th, 2009 at The Dalles Discovery Center.

Coordinated final SOW and budget for Klickitat Design & Construction Project (BPA #1988-115-35), along with subcontracts.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Finalized SOW and budget for expanded PISCES work statements under the new Fish Accords.

Continued coho surveys and completed fall Chinook surveys throughout the lower basin; results will be presented in subsequent reports.

Continued operation of rotary screw traps

Completed gravel sampling at 13 sites; information will be used to continue long-term monitoring and tracking of fine sediment inputs to the Klickitat River

Continued operation of the Lyle Falls adult ladder to monitor steelhead, fall Chinook and coho escapement into the Klickitat Basin

Hired vacant technician position, and conducted interviews for new biologist position

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Planned remainder of activities associated with the Klickitat In-Channel job along the upper Klickitat River to ensure completion by May 31, 2009.

Coordinated final elements with BPA to extend performance period and initialize expanded funding for KWEP. New project period will begin March 1, 2009 and be a 2-year budget, moving the project to a more convenient schedule outside of field season.

Completed hydraulic data collection for Harbor Engineering for the Klickitat Hatchery Vehicle Bridge & Access Road construction project.

Management, Data and Habit –January 2009

YKFP-Klickitat Management, Data and Habitat

Project staff refined PISCES SOW and budget for submittal by 1/31/09 to BPA.

Contacted and confirmed majority of speakers for the second annual Klickitat/White Salmon Fisheries and Watershed Science Conference to be hosted by YKFP on March 10th, 2009 at The Dalles Discovery Center.

Conducted Education and Outreach activities, such as coho egg distribution for the “Salmon in the Classroom” program.

Reviewed grant opportunities and coordinated with internal staff.

Conducted Data Management activities to outline for Klickitat Hatchery database and computer hardware needs list.

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital).

Initiation of this BPA-funded contract at this time includes the engineering design develop, permitting and construction of the following elements:

- Klickitat Hatchery Vehicle Bridge & Access Road
- Lyle Falls Fishway Improvements
- Castile Falls Monitoring Facility

Finalized and submitted SOW and budget for Capital Construction to BPA via PISCES for May 1, 2009 start. This contract will be augmented to include funds for capital construction to reform Klickitat Hatchery Production.

Project staff met with project engineers to finalize brood collection at Lyle Falls and Castile Falls facilities.

Klickitat Hatchery and Klickitat Master Plan EIS pre-scoping were continued.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Finalized SOW and budget for expanded PISCES work statements under the new Fish Accords.

Completed coho surveys throughout the lower basin; results will be presented in subsequent BPA reports.

Continued operation of rotary screw traps.

Completed gravel sampling at 13 sites, information will be used to continue long-term monitoring and tracking of fine sediment inputs to the Klickitat River.

Continued operation of the Lyle Falls adult ladder to monitor steelhead, fall Chinook and coho escapement into the Klickitat Basin.

Hired biologist position.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Coordinated with BPA on expanded funds submittal for KWEP Project.

Prepared for River Restoration Northwest Conference in Stevenson, WA., where Will Conley will moderate Tribal Session.

Conducted planning, design, permitting, and cost analysis for several SRFB and PCSRF projects to get ready for the upcoming field season.

Completed hydraulic data collection for Harbor Engineering for the Klickitat Hatchery Vehicle Bridge & Access Road construction project.

Management, Data and Habit –February 2009

YKFP-Klickitat Management, Data and Habitat

Coordinated Klickitat activities for inclusion in Yakama Nation Stimulus and Appropriations packages.

Received abstracts and presentations for Klickitat/White Salmon Fisheries and Watershed Science Conference to be hosted by YKFP on March 10th, 2009 at The Dalles Discovery Center. Information and agenda at: <http://www.ykfp.org/klickitat/news.htm>

Continued Education and Outreach activities, such as coho egg distribution for the “Salmon in the Classroom” program.

Reviewed grant opportunities and coordinated with internal staff.

Continued Data Management activities for Klickitat Hatchery database and computer hardware needs list.

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Project Team met with Klickitat County Planning, Natural Resources and Public Works staff to coordinate SEPA for Klickitat Hatchery Bridge and Lyle Falls projects, as well as discuss upcoming projects.

Met with BPA NEPA team to outline EIS for Master Plan and Hatchery upgrades.

Initiation of this BPA-funded contract at this time includes the engineering design develop, permitting and construction of the following elements:

- Klickitat Hatchery Vehicle Bridge & Access Road
- Lyle Falls Fishway Improvements
- Castile Falls Monitoring Facility

Submitted final state and Federal permits for Lyle Falls & Klickitat Hatchery Vehicle Bridge construction projects.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Submitted SOW and budget for expanded PISCES work statements under the new Fish Accords. Project staff are experiencing contracting delays with BPA.

Continued operation of rotary screw traps.

Conducted data entry.

Began report writing to synthesize field work generated from '08 season.

Continued operation of the Lyle Falls adult ladder to monitor steelhead, fall Chinook and coho escapement into the Klickitat Basin.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Coordinated with BPA on expanded funds submittal for KWEP Project.

Presented at River Restoration Northwest Conference in Stevenson WA., and moderated Tribal session.

Continued planning, design, permitting, and cost analysis activities for several SRFB and PCSRF projects to get ready for the upcoming field season.

Management, Data and Habit - March 2009

Klickitat Mgmt, Data & Habitat #1988-120-35

Summary:

During this reporting period:

General:

- General project administrative duties
- Conducted the 2nd annual Klickitat/White Salmon Fisheries and Watershed Science Conference
- Presentations at the conference (E&O and Klickitat Hatchery Reform)
- Coordinated w/ NOAA Mid-C Recovery activities (review of FRN #1 comments)
- Began implementation of three NOAA PCSRF grants
- Submitted FY2010 Appropriations request for WHAF and Klickitat Haul Road decommissioning projects
- Coordinated development of WHAF and Klickitat Haul Road for NOAA federal stimulus funding
- Project extended to 9/30/09

E&O:

- 6 schools in the Klickitat and neighboring subbasins participating in the Salmon in the Classroom program are getting cultural presentations (by YKFP staff), and are releasing the fish they have reared from eyed-egg stage at the Klickitat Hatchery with a tour of the facility

Data Mgmt:

- Planned and implemented video support of the Science Conference and posted presentations to the web
- Along with Jason Rau & Bill Bosch developed a plan for a Hatchery operations database similar to that used at Cle Elum
- Consulted on CRITFC's Intertribal data management plan
- Evaluated and consulted on KWEP hardware and software expenditures
- Implemented PIT-tag monitoring for Feb. 24, 2009 Klickitat hatchery Spring Chinook release & prepared tagging file for submission to PTAGIS
- Provided ongoing technical support

Project Track: On track

Klickitat Monitoring & Evaluation #1995-063-35

Summary:

During this reporting period,

- Orientation/training of new biologist (Shane Keep, started Feb. 2009) at adult and smolt trap operation, other duties
- Presentation at Klickitat-White Salmon Science conference (Spring Chinook preliminary trends, potential genetic issues)
- Initiation of projects/contracts: White Cr. instream PIT-tag antenna (to be installed summer 2009, w/USGS); Salmon/steelhead radio telemetry equipment setup (w/USGS); Steelhead genetics (biologically functional genes) analysis (w/CRITFC); Continued DIDSON camera evaluation (w/CRITFC)
- Lyle adult trap operation: Few fish Feb.-early March, some steelhead coming in mid-late March
- Spawner surveys: Completed coho (over 550 redds, high numbers above Lyle Falls relative to past few years); Beginning steelhead surveys

Klickitat Watershed Enhancement Project # 1997-056-00

Purpose:

KWEP works to restore, enhance, and protect watershed function within the Klickitat subbasin. Project work emphasizes restoration and protection in watersheds and reaches that support native salmonid stocks. Restoration activities are aimed at restoring stream processes by removing or mitigating watershed perturbances and improving habitat conditions and water quality.

Summary:

During this reporting period:

- Swale RM 2 Project effectiveness monitoring
- Lower Klickitat Re-vegetation Project effectiveness monitoring
- contract for aerial mapping (LiDAR and hi-res aerial photography) for lower 42 miles of Klickitat River valley bottom signed; flight sometime before end of March
- presented at Klickitat/White Salmon Science Conference
- planning and design for Haul Road Restoration project
- final reports for Tepee Creek Passage Project (SRFB)
- gearing-up for Lower White Creek and Upper Klickitat projects
- analyzing data and preparing materials for two invited presentations at upcoming Salmon Habitat Conference:
 - Lower Klickitat Re-vegetation Project
 - Tepee Creek – IXL Meadows Restoration Project

Project Track

All but roughly 8 milestones (out of 130) by the end of the FY08 contract period (3/31/09).

Klickitat Hatchery & Passage (Expense) # 1988-115-35

Purpose:

Addresses Step 2 requirements for construction improvements, related design work and NEPA requirements to the existing Klickitat Hatchery, Lyle Falls Fishway improvements, Castile Falls Fishway Escapement Monitoring Facility, Wahkiacus Hatchery & Acclimation Facility, and Klickitat Hatchery Vehicle Bridge & Access Road.

Current work elements include:

1. Klickitat Hatchery EIS Pre-Scoping
2. Lyle Falls Fishway Improvements
3. Lyle Falls Brood Collection Design
4. Castile Falls Fishway Improvements

5. Klickitat Hatchery Vehicle Bridge and Access Road
6. Klickitat Hatchery PIT-tag & Enumeration Design
7. Klickitat Hatchery Conceptual Design Study

Summary:

During this reporting period:

Lyle Falls

- Advanced all elements of design
- Met with Klickitat County on using NEPA for SEPA, other permitting issues
- Met with WA-DOE on water right point of diversion change, application on track
- USACE contacted for 404; National Permit may apply for Lyle, details to follow next month
- Informed tribal fishers of progress, timelines, construction mitigation impact

Castile Falls

- Design work advanced, project on schedule
- YN Water Code permit in final draft form, will be submitted at end of March

Klickitat Hatchery Vehicle Bridge & Access Road

- Klickitat County Planning Commission meeting set for April 20
- Project at 60+% design, awaiting Capital contract to finalize remaining tasks

Klickitat Hatchery Design

NEPA

- Pre-scoping underway, BPA to announce RFQ
- BPA/YN/Harbor Basin Tour 4/20. John Easterbrooks & Theresa from WDFW?

Klickitat River Design & Construction (Capital) #1988-115-35

Purpose:

The Klickitat Fishery YKFP Capital Project (Step 3) will carry forward engineering designs plans from the 61% stage to completion, manage, and fund project infrastructure construction. Construction elements are identified in the *Klickitat River Anadromous Fisheries Master Plan (KMP)* pages 113 - 132 and soon to be activated elements are listed below.

Construction Project for the following:

- Klickitat Hatchery Vehicle Bridge & Access Road
- Castile Falls Monitoring Station
- Lyle Falls Fishway Improvement Project

Summary:

None; project start is May 1, 2009

Project Track:

Project engineers and YN staff assume project is on track.

Management, Data and Habitat – April 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Presentation at the conference (E&O and Klickitat Hatchery Reform)
- Coordinated w/ NOAA Mid-C Recovery activities (review of FRN #1 comments)
- Began implementation of three NOAA PCSRF grants
- Tracked proposal for a Recovery Act (stimulus funding) grant through NOAA Coastal Marine Habitat for \$18.5M hatchery reform submittal due April 6th 2009
- Toured Fisheries Delegation from the Republic of China

Education & Outreach:

- 6 schools in the Klickitat and neighboring subbasins participating in the Salmon in the Classroom program are getting cultural presentations (by YKFP staff), Klickitat Hatchery tours and are releasing the fish they have reared from eyed egg stage

Data Mgmt:

- Continued development for a Hatchery operations database similar to that used at Cle Elum
- Consulted on CRITFCs & PSMFC data management plan
- Evaluated and consulted on KWEP Hardware and Software expenditures
- Implemented PIT-tag monitoring for Feb. 24, 2009 Hatchery Spring Chinook release & prepared tagging file for submission to PTAGIS
- Provided ongoing technical support

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital).

During this reporting period:

Lyle Falls

- Advanced all elements of design
- Presented at Klickitat County Shoreline hearing for Klickitat Hatchery Vehicle Bridge & Access Road Project
- USACE issued nationwide 404 permit for Lyle Falls
- Met with WA-DOE on water right point-of-diversion change; application on track
- Informed tribal fishers of progress, timelines, construction mitigation impact

Castile Falls

- Design work advanced, project on schedule
- Installed DIDSON underwater sonar camera in Castile Falls Fishway

Klickitat Hatchery Vehicle Bridge & Access Road

- Project at 60+% design, awaiting Capital contract to finalize remaining tasks

Klickitat Hatchery Design

NEPA

- BPA NEPA underway
- BPA/YN/Harbor Klickitat Basin Tour on 4/20/2009.

YKFP-Klickitat Monitoring & Evaluation (M&E)

During this reporting period:

- Continued orientation/training of new biologist (Shane Keep, started Feb. 2009) at adult and smolt trap operation, other duties. Presentation at Klickitat-White Salmon Science conference (Spring Chinook preliminary trends, potential genetic issues); Initiation of projects/contracts
- Continued White Cr. instream PIT-tag antenna (to be installed summer 2009, w/USGS); Salmon/steelhead radio telemetry equipment setup (w/USGS)
- Continued DIDSON camera evaluation (w/CRITFC); Lyle adult trap operation: Few fish Feb.-early March, some steelhead coming in mid-late March
- Steelhead genetics (biologically functional genes) analysis (w/CRITFC)

YKFP-Klickitat Watershed Enhancement Project (KWEP)

During this reporting period:

- Lower Klickitat Re-vegetation Project effectiveness monitoring
- Conducted aerial mapping (LiDAR and hi-res aerial photography) for lower 42 miles of Klickitat River valley.
- Tracked proposal for a Recovery Act (ARRA--stimulus funding) grant through NOAA Coastal Marine Habitat for \$1.8M habitat restoration submittal due April 6th, 2009.
- Issued final reports for Tepee Creek Passage Project (SRFB)
- Continued ramp-up for Lower White Creek and Upper Klickitat projects

Management, Data and Habit – May 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

Summary:

During this reporting period:

General:

- General project administrative duties
- Coordinated w/ NOAA Mid-C Recovery activities (review of FRN #1 comments)
- Began implementation of three NOAA PCSRF grants
- Project extended to 9/30/09
- Mike Babcock has assumed lead project management duties on this contract

E&O:

- Conducted third annual “Water Jam” event. This collaborative effort with USFS, USFWS, MCRFEG and others informs local 4th and 5th graders of fisheries and watershed issues in a hands-on way
- Set up YKFP booth at 1st anniversary signing of Columbia Basin Fish Accords Agreement

Data Mgmt:

- Began research and evaluation on state-of-the-art video technologies for implementation at the proposed Castile Falls Facility
- Jason Rau & Bill Bosch continued development of a Hatchery operations database similar to that used at Cle Elum
- Consulted with Harbor Engineers & PSMFC staff on data collection and transmission needs at proposed facilities at Castile and Lyle fishways; formal written data collection protocols will be developed for this process
- Consulted on M&E hardware and software expenditures
- Consulted on data management & transmission planning for PIT-tagging activities scheduled to begin at the screw traps
- Began data modeling with Patrick Luke as a first step in engineering a database application for juvenile lamprey sampling in the Klickitat Subbasin
- Began modifications and improvements to the thermograph data-logger database to facilitate extension of its use to housing and evaluating and interpreting temperature data
- Researched and evaluated data transmission options for the Klickitat Hatchery as the satellite equipment there is worn out beyond repair. No internet connectivity is available at that facility at this time

- Prepared a presentation on Data Management for the Native American Fish & Wildlife Society (NAFWS)
- Provided ongoing technical support at the KFO and Klickitat Hatchery

Klickitat Monitoring & Evaluation #1995-063-35

During this reporting period,

- Offered Bio II position to Nicolas Romero, will start June 1. Will assist on instream PIT-tagging and radio telemetry projects, spawner surveys and habitat surveys
- Continuation of projects/contracts: White Cr. instream PIT-tag antenna (to be installed summer 2009, w/USGS); Salmon/steelhead radio telemetry equipment setup (w/USGS). Progress being made on these projects, should be ready for field season
- Lyle Adult Trap operation: Steelhead and spring Chinook (~30 on May 12, only a few prior to that) adults being collected in Lyle Fishway trap in April & early May
- Spawner surveys: Relatively low steelhead redd counts to date, surveys in some areas hampered by high flows and access until recently (still very high flows and no surveys above Castile Falls in mid May)
- Geared up for initial PIT-tagging of wild steelhead and spring Chinook; trap operation hampered by some high flows and hatchery releases (coho and steelhead)
- Evaluation of use of hydroacoustic/sonar equipment for smolt monitoring on lower Klickitat: preliminary report from Hydroacoustic Technology, Inc. states would be “very challenging” due to potential sites, hatchery smolt numbers, debris levels

Klickitat Watershed Enhancement Project # 1997-056-00

During this reporting period,

- Lower Klickitat Re-vegetation Project effectiveness monitoring
- Prepared and submitted pre-application to Klickitat Lead Entity (SRFB) for Tepee Meadows 2 project
- Planning for Lower White Creek project
- Planning for Upper Klickitat project
- Planning for Haul Road project
- Stream gage monitoring and maintenance
- KWEP environmental compliance
- KWEP administration, administration, and more administration
- Planning and permitting for Klickitat Delta study

Klickitat Hatchery & Passage (Expense) # 1988-115-35

Purpose:

Continuing to address Step 2 requirements for construction improvements, related design work, and NEPA requirements to the existing Klickitat Hatchery, Lyle Falls Fishway improvements, Castile Falls Fishway Escapement Monitoring Facility, Wahkiacus Hatchery & Acclimation Facility, Klickitat Hatchery Vehicle Bridge & Access Road. Current work elements include:

8. Lyle Falls Fishway Improvements
9. Castile Falls Fishway Improvements
10. Klickitat Hatchery Vehicle Bridge & Access Road
11. Klickitat Hatchery PIT-tag & Enumeration Design Klickitat Hatchery Conceptual Design Study Master Plan NEPA Analysis

Summary:

During this reporting period:

Lyle Falls

- Advanced all elements of design and permitting
- USACE 404, Permit in final stages of public review
- Conducted BPA subbasin tour on April 20th, 2009
- Held meeting for Carl Keller and Don Rose to review Lyle Falls Design development, discussed engaging USFS for Wild & Scenic review

Castile Falls

- Design work advanced, project on schedule
- YN Water Code permit in final draft form will be submitted in early May
- Klickitat Hatchery Vehicle Bridge & Access Road. BPA issued CX for project
- Held shorelines hearing meeting with Klickitat County Planning Commission; Klickitat County Commissioners will act on their decision in mid May. It is anticipated that the Shoreline MDNS for the Hatchery Bridge will be issued
- Project at 60+% design, awaiting Capital contract to finalize remaining tasks

Klickitat Hatchery Vehicle Bridge & Access Road

- BPA issued CX
- Almost all permits in place, County Shoreline approval in final stages

NEPA

- Held pre-kick-off meeting with HDR reps in Portland and provided YKFP Project overview

Klickitat River Design & Construction (Capital) #1988-115-35

Purpose:

The Klickitat Fishery YKFP Capital Project (Step 3) will carry forward engineering designs plans from the 61% stage to completion, manage, and fund project infrastructure construction. Construction elements are identified in the *Klickitat River Anadromous Fisheries Master Plan* (KMP) pages 113 - 132 and soon to be activated elements are listed below.

Construction Project for the following:

- Klickitat Hatchery Vehicle Bridge & Access Road
- Castile Falls Monitoring Station
- Lyle Falls Fishway Improvement Project

Summary:

Project funds were issued from BPA in a pre-award status. Funds are available for May – July. All elements of this project are moving forward.

Management, Data and Habit – June/July 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Coordinated w/ NOAA Mid-C Recovery activities (review of FRN #1 comments)
- Began implementation of three NOAA PCSRF grants
- Project extended to 9/30/09
- Mike Babcock has assumed lead project management duties on this contract
- Finalizing submittal of a WHAF construction grant application to Dept. of Commerce under the Economic Development Administration stimulus package
- Submitted responses to NOAA Fisheries on public comments received on the Mid-C Salmon Recovery Plan
- Assisted with fish removal at Hemlock Dam on Trout Cr. (Wind R. watershed)

E&O:

- Hosted OMSI Salmon Camp science summer camp for tribal teenagers for a day and a half stop in the Klickitat Basin, where they observed operations of biologists and technicians in the field from RM&E, visited Tepee Cr. restoration sites and the Klickitat Hatchery.

Data Mgmt:

- Oversaw and coordinated the procurement and installation of a new satellite internet system at the Klickitat Hatchery
- Oversaw the IT and assisted with general operations in PIT-tagging nearly 40,000 spring Chinook at the Klickitat Hatchery
- Provided ongoing technical support to staff at the KFO, Klickitat Hatchery and GFO
- Worked with Earl Prentice researching and evaluating digital video technologies and data transmission options for the Castile Falls facility
- Met with representatives from CRITFC, CBFWA, WDFW and StreamNet in discussions of data sharing approaches
- Provided ongoing technical support at the KFO and Klickitat Hatchery

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

- Advanced all elements of design and permitting
- Obtained final permits for Lyle Falls (404 sent for final signatures)
- Transferred Lyle Falls EIS and Mitigation Action Plan compliance reporting from BPA's Carl Keller to BPA's Nancy Weintraub
- Met with tribal fishers to update them on project schedule and scope

Castile Falls

- Design work advanced, project on schedule
- YN Water Code issued exemption letter for project

Klickitat Hatchery Vehicle Bridge & Access Road

- All permits in place and design complete. Bidding likely in early August 2009.

Klickitat Hatchery Design

- Design team and YN staff have begun detailed scoping meeting and design review. Team is starting with Pond #25 modification at new bridge crossing, as this will be the first construction element needed.

NEPA-EIS (Klickitat Hatchery Program)

- Met with BPA and HDR (BPA selected contract for the Hatchery & Master Plan EIS) at kick-off meeting in Portland. Outlined EIS timeline and set up public meeting in August and basin site visit.
- Confirmed \$250K WHAF funds have been transferred for design work which will greatly refine EIS.

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

Full project award was issued by BPA for the period May 1-April 30, 2011. All project elements are moving forward with an in-channel site preparation and cofferdam installation contract anticipated to being in early August. This “preferred source contract” using an Indian-owned firm will conduct the in-channel work during the in-water work period set by permitting agency which is July 1 – September 30th. All permits have been secured, and project will be out for bid by ~September 2009. Project staff will be updating website with construction progress.

Discussion with BPA identifies October 09 likely for official ground-breaking ceremony. Met with TERO and project engineers and legal staff to ensure TERO compliance and procedures.

Klickitat Hatchery Vehicle Bridge & Access Road:

All permits have been secured, and project will be out for bid by ~August 2009.

Castile Falls Monitoring Station:

All permits have been secured, final designs are being completed project will be out for bid by ~Fall/early-Winter 2009.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Nicolas Romero started June 1. Working out very well, is going full speed on PIT-tagging in White Cr. and other projects.
- Continuation of projects/contracts: Installation began on White Cr. instream PIT tag antenna (w/USGS), should be complete mid July; Salmon/steelhead radio telemetry equipment setup (w/USGS) progressing
- Lyle adult trap operation: Indications of a large Klickitat spring Chinook run (mark-recapture pop. estimate ~ 5000 fish total, with >90% hatchery fish); also large numbers of hatchery steelhead in June/early July
- Spawner surveys: Low steelhead redd count for 2009 (62 total), surveys in some areas hampered by high flows (incomplete surveys above Castile Falls)
- Screw trap operation hampered in spring by some high flows and hatchery releases, very few PIT tags implanted in wild spring Chinook
- White Cr. watershed PIT-tagging of wild *O. mykiss* – 1200 fish by mid-July
- Klickitat Hatchery spring Chinook PIT-tagging - >35,000 fish
- Final report from Hydroacoustic Technology, Inc. on smolt monitoring in lower Klickitat using hydroacoustic equipment: River environment too acoustically noisy (likely from entrained air bubbles, even at relatively calm, laminar flow sites): not feasible

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period,

- LiDAR and Aerial Photo acquisition for lower 30 miles of Klickitat (oversight of contract with Watershed Sciences - QC and review of delivered product)
- Presented pre-application to Klickitat Lead Entity - (local technical review committee) and technical review staff from SRFB for Tepee Meadows 2 project
- Planning for Lower White Creek project
- Planning for Upper Klickitat project
- Planning for Haul Road project (treatment prescriptions by road segment)
- Planning for Tepee Meadows 2 restoration project - design/planning of pre-restoration monitoring activities (fish population estimates, plant surveys, etc.)
- Weed management (removal) conducted at past restoration project sites (Tepee IXL, Upper Klickitat, Caldwell Prairie)
- Stream gage monitoring and maintenance
- KWEP environmental compliance (Upper Klickitat and L. White Cr.)

- KWEP administration
- Planning, permitting, and sensing equipment acquisition for Klickitat Delta study

Management, Data and Habit – August 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Project extended to 9/30/09
- Built two-year SOW and budget in BPA's online PISCES Program
- Began compiling information for BPA Annual Report

Began drafting submittal of a WHAF construction grant application to Dept. of Commerce under the Economic Development Administration stimulus package Met with Congressional staffers to highlight need for WHAF construction to meet HSRG hatchery reform measures E&O:

- Conducted education tours at Hemlock Dam decommissioning
- Began gearing up for 2009/2010 school season with regional E&O partners
- Drafted a PCSRF grant proposal to involve local school in an experiential learning project around Condit Dam removal
- E&O staff assisted with Camp Chaparral Wilderness Youth Camp

Data Mgmt:

- Attended regional M&E project evaluation set up by CBFWA in Yakima
- Continued collaborative effort with representatives from CRITFC, CBFWA, WDFW and StreamNet in discussions of data sharing approaches
- Provided ongoing technical support to staff at the KFO Klickitat Hatchery and GFO
- Continued working with Harbor Engineers to research and evaluate digital video technologies and data transmission options for the Castile Falls facility
- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital).

Summary:

During this reporting period:

Lyle Falls

- All final permits obtained
- Began work on rock excavation & coffer dam construction initial contract (Capital)
- Updated Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA – this will be an ongoing effort throughout the project
- Met with tribal fishers on-site to update them on project schedule and scope
- An attempt will be made to announce for bids for the remainder (bulk) of the project by mid-September

Castile Falls

- Design work advanced, project on schedule
- All permits in place (YN Water Code issued exemption letter for project)

Likely to announce for bid in November for spring/summer 2010 construction Klickitat Hatchery Vehicle Bridge & Access Road

- All permits in place and design complete
- Bidding opening 8/26/09, award likely after careful evaluation of bids; assume ~10 days

Klickitat Hatchery Design

- Design team and YN staff have begun detailed scoping meeting and design review
- (Klickitat Hatchery Program)

- Worked with HDR To refine EIS timeline, provide project information and set up Public Meeting in August and basin site visit.

NEPA-EIS

- Met with YN IDT to enlist support to answer effects questions relating to wildlife, noise, water quality . . . etc.
- Began information sharing with BPA and their contractor HDR
- Discussed with BIA Environmental Manager including BIOA as contributor in EIS process. Formal letter requesting BIA's involvement may follow

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

- The “preferred source contract” was awarded to Apollo, Inc. (an Indian-owned firm) and they began in early August to perform the in-channel work during the in-water work period (July 1 – September 30th)

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Installed radio telemetry receivers along the mainstem Klickitat River to monitor adult salmon migration
- Began spring Chinook surveys in the mainstem. Initial observations found adults in the McCormick Meadows area
- Updated the Klickitat Lead Entity Strategy document that guides SRFB funding
- Continued operation of the Lyle Falls Adult Trap
- Completed began on White Cr. instream PIT-tag antenna. Over 1,900 steelhead juveniles were PIT-tagged in White Creek for this study
- Lyle Adult Trap information: Indications of a large Klickitat spring Chinook run (mark-recapture pop. estimate ~ 5000 fish total, with >90% hatchery fish). Also large numbers of hatchery steelhead in June/early July
- Klickitat sampling using hydroacoustic equipment deemed unsuccessful: river environment too acoustically noisy (likely from entrained air bubbles, even at relatively calm, laminar flow sites), not feasible
- Habitat inventory transects at key location were conducted
- Assisted Klickitat hatchery staff with spring Chinook spawning and data collection
- Crews assisted with Camp Chaparral Wilderness Youth Camp

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- Updated Environmental Compliance issues raised by BPA COTR on KWEP project
- Reviewed result of LiDAR flights--data looks very promising
- Completed design work for culvert replacements on Haul Road Project
- Completed and presented pre-application to Klickitat Lead Entity - (local technical review committee) and technical review staff from SRFB for Tepee Meadows 2 project
- Continued planning for Lower White Creek project and Upper Klickitat project and Tepee Meadows 2 restoration project - design/planning of pre-restoration monitoring activities (fish population estimates, plant surveys, etc.)
- Weed management (removal) conducted at past restoration project sites (Tepee IXL, Upper Klickitat, Caldwell Prairie)
- Stream gage monitoring and maintenance
- KWEP environmental compliance (Upper Klickitat and L. White Cr.)
- KWEP administration
- Installed sensor to read water depth, water and air temperature, and wind speed/direction at 5 locations around the Klickitat Delta

Management, Data and Habit – September 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- End of performance period is 9/30/09
- Continued compiling information for BPA Annual Report
- Compiled existing information on YN's efforts to find funding for WHAF per Fish Accord Agreement
- Participated in Mid-C Recovery Plan Steering Committee meeting on September 25, 2009
- Reviewed habitat and E&O proposals and defended YN proposals at PCSRF grant review meeting at CRITFC
- Worked with willing seller of Wahkiacus property that abuts WHAF. Coordinating with YN Land Enterprise (YNLE). Through PCSRF grant received \$25,000 to cost share with YNLE for property purchase

E&O:

- Conducted education tours at local area schools
- Added two local schools to Salmon in the Classroom program .
- Purchased a new tank & chiller for new school placement at Goldendale Middle School

Data Mgmt:

- Worked with KFO, USGS & PSMFC personnel to organize Klickitat PIT-tag data, identify/register tagging & interrogation sites, and register the Klickitat Data Manager in PTAGIS as Klickitat PIT-tag coordinator
- Designed and executed custom data queries for M&E and KWEP biologists
- Performed evaluations of network acceleration devices in advance of video data transmissions via satellite uplink from Castile Falls
- Set up a dedicated computer to monitor and store automated Klickitat Delta water quality data collection
- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery
- Upgraded the Arc SDE Server to a new, more reliable machine
- Researched, ordered and in the process of implementing multiple upgrades or replacements for equipment on the KFO network
- Attended National Organization of Fish and Wildlife Information Managers conference
- Began a reassessment and rewrite of the Klickitat Information System Management Plan to include planning for the many new M&E activities beginning in the basin
- Assisted with PIT-tagging steelhead at Skamania Hatchery destined for the Klickitat River

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital).

Summary:

During this reporting period:

Lyle Falls

- Engineering firm to submit 100% and Specification Manual to BPA by October 23, 2009
- Pre-bid walk-through (2 days) likely in late October /early Nov.
- Continued work on rock excavation & coffer dam construction initial contract (Capital). In-water work completed by end of Sept.
- A single change order was issued due to unforeseen "piping" situation discovered during the pump draw-down test. Concrete was placed to seal bottom of coffer dam
- Continued to update Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA
- Assisted Harbor with assessing potential powerline vegetation impacts by doing a walk-through of powerline and writing narrative for Gorge Commission application

- Investigated off-site propagation of threatened plant species affected by Lyle Falls construction

Castile Falls

- Engineering firm to submit 100% and Specification Manual to BPA by October 23, 2009.
- All permits in place (YN Water Code issued exemption letter for project)
- Pre-bid walk through will be scheduled within a few weeks to ensure prospective bidders can see site prior to winter weather

Klickitat Hatchery Vehicle Bridge & Access Road

- Notice of award has been issued to Apollo, Inc., the low qualified bidder
- Mobilization will begin in late October for the road construction portion of the project

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review

NEPA-EIS

- A second meeting was set for Nov 4th with BPA and HDR (BPA selected contract for the Hatchery & Master Plan EIS) to advance EIS
- Funds from out-year O&M to cover remaining EIS need were transferred; final confirmation is needed from BPA

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

- The “preferred source contract” was awarded to Apollo, Inc. (an Indian-owned firm) and they began in early August to perform the in-channel work during the in-water work period (July 1 – September 30th)
- Funds were transferred from out-year O&M contract to D&C Expense to conduct engineering design to the 30% conceptual design stage by summer 2010. Final confirmation is needed from BPA
- Design team is using the \$250K WHAF to advance the WHAF 30% conceptual design

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Radio telemetry monitoring sites are operating and radio tagging & tracking has begun (several hatchery steelhead tagged to start testing system/methods)
- Completed spring Chinook spawner surveys: 4 redds, 9 live fish observed above Castile Falls. Overall count is just under 70 redds (very low). Redd counts not reflective of large run size estimated from mark-recapture (see below). Three passes completed with good survey conditions.
- Final Spring Chinook mark-recapture population estimate of ~6500 fish (including jacks), 89% hatchery, 11% wild. This would be a record high (average total run size is ~2300 fish). This year's estimated ~700 wild fish does not jibe with low redd counts observed. High jack counts throwing off estimate?
- Continued operation of the Lyle Falls Adult Trap. Currently a few coho, fall Chinook, and steelhead coming in.
- Monitoring of salmonid and invertebrate response to habitat restoration in Tepee and White creeks: Pre-project sampling is nearing completion (fish abundance, fish stomach contents, invertebrate species composition and abundance, and riparian vegetation)
- White Cr. instream PIT-tag antenna is operating, with a few power glitches that seem to be fixed.
- 10,000 hatchery steelhead juveniles PIT-tagged at Skamania Hatchery in early Oct. (thanks to Todd Newsome and crew for help) - will be released in Klickitat R. in April 2010.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period,

- Held Public Meeting in Lyle with Columbia Land Trust to describe Haul Road restoration project, which will include abandonment, and removal of portions of road within Klickitat River floodplain

- Met with WA State Parks at staff level to discuss remaining issues regarding State's CAMP document for Klickitat Rails to Trails State Park formation. Informed YN policymakers in preparation of a Gov't-to-Gov't-level meeting with State Parks
- Bid Upper Klickitat Phase II project for Sept/Oct construction
- Continued final planning for Lower White Creek project
- Stream gage monitoring and maintenance
- KWEP environmental compliance (Upper Klickitat and L. White Cr.)
- KWEP administration
- Monitored sensors to read water depth, water and air temperature, and wind speed/direction at 5 locations around the Klickitat Delta.

Management, Data and Habit – October 2009

YKFP-Klickitat Management, Data and Habitat

During this reporting period:

General:

- General project administrative duties.
- Continued compiling information for BPA Annual Report.
- Compiled existing information on YN's efforts to find funding for WHAF per Fish Accord Agreement.

E&O:

- Conducted education tours at local area schools
- Continued Salmon in the Classroom at two additional local schools.
- Received PCSRF grant to conduct E&O for local school to conduct pre and post studies around Condit Dam removal.
- Purchased a new tank & chiller for new school placement at Goldendale Middle School
- Continuing planning for Whitson Elementary Schoolyard Habitat; prepared design for Native Pollinator Garden

Data Mgmt:

- Worked with KFO, USGS & PSMF personnel to organize Klickitat PIT tag data identify/register tagging & interrogation sites and register the Klickitat Data Manager in PTAGIS as Klickitat Pit tag coordinator. .
- Designed and executed custom data queries for M&E and KWEP Biologists.
- Performed evaluations of network acceleration devices in advance of video data transmissions via satellite uplink from Castile Falls.
- Set up a dedicated computer to monitor and store automated Klickitat Delta water quality data collection.
- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery.
- Upgraded the Arc SDE Server to a new, more reliable machine.
- Researched, ordered and in the process of implementing multiple upgrades or replacements for equipment on the KFO network.
- Attended National Organization of Fish and Wildlife Information Managers conference.
- Began a reassessment and rewrite of the Klickitat Information System Management Plan to include planning for the many new M&E activities beginning in the basin.
- Assisted with Pit tagging Steelhead at Skamania Hatchery destined for the Klickitat River.

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

- Engineering Firm to submit 100% and Specification Manual to BPA by October 23, 2009.
- Pre-bid walk through (2days) likely in late October / early Nov.

- Continued work on rock excavation & coffer dam construction initial contract (Capital). In water work completed by end of Sept.
- A single change order was issued due to unforeseen “piping” situation discovered during the pump draw down test. Concrete was placed to seal bottom of coffer day.
- Continued to ongoing update Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA.
- Assisted Harbor with assessing potential powerline vegetation impacts by doing a walk-through of powerline and writing narrative for Gorge Commission application
- Investigated off-site propagation of threatened plant species affected by Lyle Falls construction

Castile Falls

- Engineering Firm to submit 100% and Specification Manual to BPA by October 23, 2009.
- All permits in place. (YN Water Code issued exemption letter for project).
- Pre-bid walk through will be scheduled within a few weeks to ensure prospective bidders can see site prior to winter weather.

Klickitat Hatchery Vehicle Bridge & Access Road

- Notice of award has been issued to Apollo, Inc. the low qualified bidder.
- Mobilization will begin in late October for the road construction portion of the project.

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review.

NEPA-EIS

- A second meeting was set for Nov 4th with BPA and HDR (BPA selected contract for the Hatchery & Master Plan EIS) to advance EIS.
- Funds from out year O&M to cover remaining EIS need were transferred. Final confirmation is needed form BPA.

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

- The “preferred source contract” was awarded to Apollo Inc (an Indian owned firm) and they began in early August to perform the in-channel work during the in-water work period (July 1 – September 30th).
- Funds were transferred from out year O&M contract to D&C Expense to conduct engineering design to the 30% conceptual design stage by summer 2010. Final confirmation is needed form BPA.
- Design team is using the \$250K WHAF to advance the WHAF 30% conceptual design.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Continued operation of Radio telemetry monitoring sites.
- Radio tagging & tracking field survey work
- Continued operation of the Lyle Falls Adult trap with a few coho, fall Chinook, and steelhead coming in.
- Continued monitoring of salmonid and invertebrate response to habitat restoration in Tepee and White creeks: Pre-project sampling is nearing completion (fish abundance, fish stomach contents, invertebrate species composition and abundance, and riparian vegetation)
- Monitored the 10,000 Hatchery steelhead juveniles PIT-tagged at Skamania Hatchery in early Oct. for delayed mortality with WDFW assistance.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period,

- KWEP administration

- Coordinated with project parties on feedback received at Public Meeting in Lyle with Col Land Trust to describe Haul Road restoration project.
- Stream gage monitoring and maintenance
- Continued planning and design for Lower White Creek project
- KWEP environmental compliance (Upper Klickitat and L. White Ck)
- Monitored sensors to read water depth, water and air temperature, and wind speed/direction at 5 locations around the Klickitat Delta.
- Planning and design for Haul Road project

Management, Data and Habit –November 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Continued compiling information for BPA Annual Report
- Compiled existing information on YN's efforts to find funding for WHAF per Fish Accord Agreement
- Participated in Mid-C Recovery Plan Implementation Team on November 19, 2009.
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Participated in Mid-C Implementation Scheduling meeting with NOAA, WDFW and Klickitat County

E&O:

- Continued Salmon in the Classroom at local schools.

Data Mgmt:

- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital).

Summary:

During this reporting period:

Lyle Falls

- Completed Lyle Falls coffer dam construction

Castile Falls

Klickitat Hatchery Design

NEPA-EIS

- A second meeting was set for Nov 4th with BPA and HDR (BPA selected contract for the Hatchery & Master Plan EIS) to advance EIS

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

Klickitat Hatchery Vehicle Bridge & Access Road

- Mobilization will begin in late November
- Steel fabricator in Portland is developing shop drawings with contractor. Engineer is reviewing.

YKFP-Klickitat Monitoring & Evaluation (M&E) Summary:

Summary:

- Radio telemetry monitoring sites are operating and radio tagging & tracking has begun. Hatchery and wild steelhead have been tagged and are being monitored – preliminary results suggest steelhead stray rate into Klickitat R. may be quite high (several steelhead have left Klickitat basin after being tagged at Lyle Falls).
- Fall Chinook spawner surveys have begun – early indications of a fairly good run size.
- Coho spawner surveys just begun with a few fish observed above Lyle Falls.
- Continued operation of the Lyle Falls Adult Trap. Very large coho run in Oct.-early Nov. in lower Klickitat River and Lyle Falls. Coho numbers have decreased in mid-Nov. with a few coho currently being caught daily in trap.
- Monitoring of salmonid and invertebrate response to habitat restoration in Tepee and White creeks: Pre-project sampling is nearing completion (fish abundance, fish stomach contents, invertebrate species composition and abundance, and riparian vegetation)
- White Cr. instream PIT-tag antenna is operating, a few PIT-tagged steelhead (tagged in immediate vicinity of the antenna) are being detected.
- Data analysis for 2010 Klickitat spring Chinook forecast – various anomalies in age and run-size data will make forecasting more difficult and less certain.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- Mobilized and initiated implementation of Upper Klickitat Phase II project
 - Completed salvage logging of blowdown in Windy Point vicinity
 - Completed boulder collection and transport
 - Completed rip-rap production and transport
 - Completed treatments at two locations along the 255 Road to reduce road embankment erosion and enhance fish habitat
 - Completed treatments at two locations to reconnect side channels for flood relief and fish habitat
 - Initiated treatment at a third location along the 255 Road
- Initiated topographic survey along the Tepee Creek Phase 2 reach
- Continued planning and design for Lower White Creek project
- Stream gage monitoring and maintenance
- KWEP administration
- Attended a short course in pool/riffle stream design
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
- Planning and design for Haul Road project
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Received notification that an abstract submitted by the KWEP project manager was accepted for an oral presentation at the 2010 River Restoration Northwest symposium
- Received notification the KWEP project manager will be chairing the “Restoration Partnerships and Strategies” session at the 2010 River Restoration Northwest symposium
- Conducted field tours of recent restoration projects in the Tepee Creek watershed as well as for the Upper Klickitat Phase 2 project for the YN’s forest certification pre-audit

Management, Data and Habit –December 2009

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Continued compiling information for BPA Annual Report
- Compiled existing information on YN's efforts to find funding for WHAF per Fish Accord Agreement
- Participated in Mid-C Recovery Plan Implementation Team development of actions and cost tables
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Set up meeting with WA Parks for MOA development on rails-to-trails operation as it relates to habitat restoration opportunities

E&O:

- Teacher meetings, planning and coordination for the upcoming Salmon in the Classroom season.
- Coordination with new director of Columbia Gorge Ecology Institute for future partnering opportunities on watershed education (e.g. outdoor ed., Water Jam, Outdoor Learning Center, community restoration, etc.)
- Compiled information from various environmental education resource professionals about what is required to conduct an outdoor school/environmental camp/learning center (if YN were to acquire Brooks Memorial State Park as an environmental learning facility)

Data Mgmt:

- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery.
- Designed and executed custom data queries for M&E and KWEP biologists
- Researched, ordered and in the process of implementing multiple upgrades or replacements for equipment on the KFO network.
- Continued reassessment and rewrite of the Klickitat Information System Management Plan to include planning for the many new M&E activities beginning in the basin.

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

- Pre-bid walk through conducted on Nov 23 & Nov 24
- Pre-bid presentation held on Nov 23 & Nov 24 in Fisheries Conference Room, due to inclement weather.

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review

NEPA-EIS

- EIS development is ongoing
- Developing Alternative section and Purposes & Need chapter

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

Hatchery Bridge

- Steel fabricator in Portland is developing shop drawings with contractor. Engineer is reviewing.
- Timber cutting by road contractor underway and road pioneering, if weather permits.

YKFP-Klickitat Monitoring & Evaluation (M&E) Summary:

- Radio telemetry monitoring sites are operating and radio tagging & tracking is continuing. Hatchery and wild steelhead have been tagged and are being monitored – catch rates at Lyle adult trap are currently low.

- Fall Chinook and coho spawner surveys are continuing, but have been delayed in early Dec. due to ice and snow.
- Continued operation of the Lyle Falls Adult Trap. Few fish are currently coming into the Klickitat River, and catch rates are low.
- Monitoring of salmonid and invertebrate response to habitat restoration in Tepee and White creeks: Fall 2009 pre-project sampling is completed (fish abundance, fish stomach contents, invertebrate species composition and abundance, and riparian vegetation). Invertebrate samples are being processed.
- White Cr. instream PIT-tag antenna is operating, a few PIT-tagged steelhead (tagged in immediate vicinity of the antenna) are being detected.
- Spring Chinook 2009 run size estimates - 2 very different estimates from different methods:
 - 3000 total fish (85% hatchery, 50% jacks) from escapement + harvest est.
 - 6500 total fish (90% hatchery, 22-45% jacks) from Lyle Adult Trap and hatchery mark-recapture method
 - Real number somewhere in between?
- Spring Chinook 2010 forecast: ~ 4500 adult fish. This is a large prediction with a high degree of uncertainty due to age composition changes, ocean factors.
- Steelhead 2009 run-size estimate forthcoming.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- Continued planning and design for Lower White Creek project
- Stream gage monitoring and maintenance
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
- Planning and design for Haul Road project
- KWEP administration

Management, Data and Habit -January 2010

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Met with WDFW Director and Intergovernmental staff along with YKFP Policy Leaders and YN DNR Deputy Director for annual YKFP update and Klickitat Hatchery transition check-in meeting.
- Participated in Mid-C Recovery Plan Implementation Team development of actions and cost tables
- Participated in Lower Columbia (salmon recovery) Steering Committee meeting
- Informal spawner survey of lower Jewett Cr. and Major Cr. for coho
- Participated in YN DNR Resource Protection meeting

E&O:

- Teacher meetings, planning and coordination for the upcoming Salmon in the Classroom season.

Participated in Columbia Gorge Cooperative Weed Mgt. Area (CGCWMA) meeting

Data Mgmt:

- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery.
- Designed and executed custom data queries for M&E and KWEP biologists

- Continued reassessment and rewrite of the Klickitat Information System Management Plan to include planning for the many new M&E activities beginning in the basin
- Data validation correction and compilation for M&E reports
- Network upgrades
- Some work on data management planning and MDH annual report

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

Castile Falls

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review.

NEPA-EIS

- EIS development is ongoing
- Developing Alternative section and Purposes & Need chapter.

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

Hatchery Bridge

YKFP-Klickitat Monitoring & Evaluation (M&E) Summary:

- Monitoring of salmonid and invertebrate response to habitat restoration in Tepee and White creeks: Fall 2009 pre-project sampling is completed (fish abundance, fish stomach contents, invertebrate species composition and abundance, and riparian vegetation). Invertebrate samples are being processed.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- Continued planning and design for Lower White Creek project
- Stream gage monitoring and maintenance
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
- Planning and design for Haul Road project
- KWEP administration

Management, Data and Habit – February 2010

YKFP-Klickitat Management, Data and Habitat

During this reporting period:

General:

- General project administrative duties
- Began development of the new BPA O&M contract for the Klickitat Basin
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings.
- Continued compiling existing information on YN's efforts to find funding for WHAF per Fish Accord Agreement
- Participated in Mid-C Implementation Scheduling meeting with NOAA, WDFW and Klickitat County

E&O:

- Teacher meetings, planning and coordination for the upcoming Salmon in the Classroom season
- Delivered coho eyed eggs for Salmon in the Classroom programs to schools throughout the area.
- Gave tour of Lyle Falls and radio telemetry project to group of students from Gorge Discovery School
- Taught watershed and water cycle lesson with USFWS as part of Salmon in the Classroom

Data Mgmt:

- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery
- Designed and executed custom data queries for M&E and KWEP biologists
- Researched, ordered and in the process of implementing multiple upgrades or replacements for equipment on the KFO network
- Continued reassessment and rewrite of the Klickitat Information System Management Plan to include planning for the many new M&E activities beginning in the basin

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

- Bids to be received by the 9th
- YN & Harbor is evaluating bids and will likely announce "qualified low bidder" by mid-week 2/22

Castile Falls

- Bids to be received on Feb 9th. Same timeline as bullet #2 above

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review

NEPA-EIS

- EIS development is ongoing
- Wahkiacus scoping/workshop set for March 18
- Developing Alternative section and Purposes & Need chapter.

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Lyle Falls:

- Timber cutting by road contractor underway and road pioneering has begun.
- Steel fabricator in Portland developing shop drawings with contractor. Harbor Engineer is reviewing.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Assisting design review team with final elements of Lyle Falls and Castile Falls Monitoring Stations
- Continued monitoring Radio telemetry sites
- Radio tagging hatchery and wild steelhead at Lyle adult trap are currently low

- Operation of the Lyle Falls Adult trap.
- Continued operation of the White Cr. instream PIT-tag antenna system, a few PIT-tagged steelhead (tagged in immediate vicinity of the antenna) are being detected.
- Steelhead 2009 run size estimate available in March Report.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- KWEP administration
- Planning and design for Haul Road project
- Continued planning and design for Lower White Creek project
- Stream gage monitoring and maintenance
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta

Management, Data and Habit –March/April 2010

YKFP-Klickitat Management, Data and Habitat

During this reporting period:

General:

- Held 3rd annual Klickitat/White Salmon Fisheries and Watershed Science Conference March 16. Meeting was well attended; details at project website under the “news” tab. www.ykfp.org/klickitat
- General project administrative duties
- Input new BPA O&M contract for the Klickitat Basin to PISCES
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Held WHAF multi-agency workshop with BPA and WDFW
- Participated in Mid-C Recovery Plan Implementation Team development of actions and cost tables

E&O:

- Provided coho eggged eggs and taught lessons for Salmon in the Classroom (SITC) programs to schools throughout the area.
- Salmon life cycle and habitat requirements lessons as part of SITC
- Water Jam planning meeting
- Salmon culture presentation to The Dalles middle school
- Fish release and Klickitat Hatchery tours (SITC)

Data Mgmt:

- Completed upgrade of the Arc SDE Server to a new, more reliable machine
- Provided ongoing technical support and equipment troubleshooting at the KFO and Klickitat Hatchery.
- Designed and executed custom data queries for M&E and KWEP biologists
- Researched, ordered and in the process of implementing multiple upgrades or replacements for equipment on the KFO network

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls

- William Charles West selected for Lyle/Castile Construction project; contracting pre-work began. Sign anticipated in late March

Castile Falls

- William Charles Wet selected for Lyle/Castile Construction project; contracting pre-work began. Sign anticipated in late March

Klickitat Hatchery Design

- Design team and YN staff have continued initial scoping meeting and programming study plan review

NEPA-EIS

- Continued EIS development
- Wahkiacus scoping/workshop held March 18
- Developing Alternative section and Purposes & Need chapter.

Klickitat River Design & Construction (Capital) #1988-115-35

Summary:

Klickitat Hatchery Vehicle Bridge & Access Road

YKFP-Klickitat Monitoring & Evaluation (M&E) Summary:

- Assisting design review team with final elements of Lyle Falls and Castile Falls Monitoring Stations
- Continued radio telemetry project field work and
- Continued operation of the Lyle Falls Adult trap with hatchery and wild spring Chinook run beginning.
- Field work underway for the Tepee/White habitat effectiveness study: White Cr. instream PIT tag antenna is operating, a few PIT-tagged steelhead (tagged in immediate vicinity of the antenna) are being detected.

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- KWEP administration
- Continued planning and design for Haul Road project
- Continued planning and design for Lower White Creek project
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
- Stream gage monitoring and maintenance

Management, Data and Habit – May 2010

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Updated BPA O&M contract and held meeting with BPA to finalize contract issues
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Participated in Mid-C Recovery Plan Implementation Team development of actions and cost tables

- Continued to compile existing information on YN's efforts to find funding for Wahkiacus Hatchery & Acclimation Facility per Fish Accord Agreement
- Attended Short Course on Planning at Agency HQ
- Continuing to take part in YN DNR's Ceded Lands Working Group & coordinating with other DNR departments on resource issues
-

E&O:

- Release salmon from Salmon in the Classroom programs with local schools throughout the area at Klickitat Hatchery.
-
-
- Had Stream Restoration activity at Water Jam for the third consecutive year (May 20, 21) and secured YN tribal storytellers for same event.

Data Mgmt:

- Worked with Pacific States Marine Fisheries (PSMFC) PTAGIS database staff to ensure the accuracy of PIT tag records for 2010 releases of Klickitat Hatchery Spring Chinook and Skamania Hatchery steelhead
- Worked with PSMFC PTAGIS database staff to develop a workable strategy for submitting consistent interrogation files from the White Creek PIT-tag array
- Designed and executed custom queries against various KFO databases in support of data and reporting needs of KWEP and RM&E staff
- Redesigned tblFloyRecoveries from the Lyle Adult Trap (LAT) database and created a web-accessible copy
- Designed, built and published a web application for the reporting of recovered LAT floy tags at the following address: http://www.ykfp.org/klickitat/Data_FloyReturns.htm
- Updated LAT data reporting pages on the Web site to present 2010 counts of target species http://www.ykfp.org/klickitat/Data_lyleadulttrap.htm
- Began collaboration with RM&E and KWEP staff, data modeling, design & build of Habitat Inventory and Food Web databases
- Began collaboration with RM&E and KWEP staff, data modeling, design & build of a GPS waypoint database to better manage this field-collected data
- Revisited a previously abandoned Fish Presence/Absence database with RM&E and KWEP staff, evaluating strategies for organizing, and utilizing this disparate data set
- Met with PSMFC monitoring staff in Kennewick, WA, in collaboration on design of a redundant satellite communications system for the Castile Falls facility; this system will ensure remote monitoring and management of the physical plant, PIT-tag array and video monitoring systems, as well as data transmission of video and PIT tag detection data
- Researched communications options for the Lyle and Castile sites
- Monitored current developments in video technology for Castile and Lyle applications
- Submitted the final PISCES status report for contract 37851
- Submitted the January – March quarterly PISCES status report for contract 44613
- Continued with ongoing BPA reporting requirements

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls Fishway Improvement & Monitoring Facility

- William Charles West is two months into Lyle Falls Project, with majority of rock excavation work completed. Concrete forms will soon be built. Fishers' parking and improved roadway near completion.

- .
- Final coordination with Klickitat Public Utility District to bring in 3-phase power to site

Castile Falls Monitoring Facility

- William Charles West began work in early May and is currently approximately $\frac{3}{4}$ the way through rock excavation

Klickitat Hatchery Vehicle Bridge & Access Road

- New roadway fill in place and road bed on track for late June completion
- Roadway drainage system completed
- Drilling for bridge footings started on west bank, with completion by late May, with early June start on east bank footer
- Crane assembly and bridge erection on schedule for mid-July

Wahkiacus Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by late summer 2010

Klickitat Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by early fall 2010

NEPA-EIS

- Continued EIS development with BPA. Draft EIS scheduled for fall 2010. Final by midsummer 2011.

YKFP-Klickitat Monitoring & Evaluation (M&E) Summary:

- Continued operation of the Lyle Falls Adult Trap
- Assisting design review team with final elements of Lyle Falls, Castile Falls Monitoring Stations as well as Klickitat Hatchery and Wahkiacus Hatchery
- Radio telemetry monitoring sites are operating and radio tagging & tracking is continuing. Hatchery and wild steelhead have been tagged and are being monitored – catch rates at Lyle adult trap are currently low
- White Cr. instream PIT tag antenna operation and PIT-tagged juvenile steelhead continued. White Creek array detecting steelhead movement.
- Continued monitoring associated with the Tepee/White habitat effectiveness study creeks:

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- KWEP administration
- Lower White Creek project design
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Haul Road project planning and design
- Continued operation of sensors to read water depth, water and air temperature, and wind speed/direction at Klickitat Delta.
- Stream gage monitoring and maintenance

Management, Data and Habit – June 2010

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Updated BPA O&M contract and held meeting with BPA to finalize contract issues

E&O:

- Provided materials and information to counterparts at the CTWS Hood River office who are trying to set up a similar E&O program for their fisheries program.
- Led and interpreted an ecology hike at Catherine Creek for a summer school program of 30 4th, 5th and 6th graders.

Data Mgmt:

- Submitted tagging files for Skamania Hatchery steelhead to PTAGIS database
- Awaiting guidance from PSMFC PTAGIS database staff to develop a workable strategy for submitting consistent interrogation files from the White Creek array
- Submitted tagging files to PTAGIS for adult fish tagged at LAT
- Designed and executed custom queries against various KFO databases in support of data and reporting needs of KWEP and RM&E staff
- We received our first submission of a floy tag recovery via the web site. It was a wild Chinook tagged at Lyle 4/21/2010 and caught in the Columbia near the John Day 5/19/2010. This record was replicated to tblFloyRecoveries in the Lyle Adult Trap (LAT) database
- Updated Hatchery Adult Return data reporting pages on the Web site to present 2010 counts:
http://www.ykfp.org/klickitat/Data_lyleadultrap.htm
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of Habitat Inventory database
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of a GPS waypoint database to better manage this field-collected data
- Continued evaluation of the abandoned Fish Presence/Absence database with RM&E and KWEP staff, appraising strategies for organizing, and utilizing this disparate data set
- Continued collaboration with PSMFC monitoring staff in Kennewick, WA, on design of a redundant satellite communications system for the Castile Falls facility. This system will ensure remote monitoring and management of the physical plant, PIT-tag array and video monitoring systems, as well as data transmission of video and PIT-tag detection data.
- Researched communications options for the Lyle and Castile sites
 1. Negotiated pricing for fiber optic connection @ Lyle Falls and passed contract negotiations up the chain of command
 2. Relocated satellite uplink equipment from KFO to Castile; currently waiting for a re-aim of the dish to reestablish the connection. Early adoption of satellite communications at Castile will allow pre-testing of two-way remote interaction with systems at Castile and establish video file transmission capabilities from that site
- Monitored current developments in video technology for Castile and Lyle applications
- Performed several very large file replications in support of DIDSON work evaluating blast effects on fish at Lyle
- Provided input on cabling and work area design needs for the Lyle work-up trailer
- Performed various technical support, troubleshooting and recovery operations
- Maintained KFO data backups
- Continued with ongoing BPA reporting requirements

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

Summary:

During this reporting period:

Lyle Falls Fishway Improvement & Monitoring Facility

- William Charles West (WCW) is three months into Lyle Falls Project; rock excavation work now completed. Concrete forms will soon be built. Fishers parking and improved roadway in operation

- Final coordination with Klickitat Public Utility District to bring in 3-phase power to site

Castile Falls Monitoring Facility

- WCW 1.5 months into project. Rock excavation soon to be completed. Interior fishway demolition of concrete completed.

Klickitat Hatchery Road/Bridge

- New roadway fill in place and road bed on track for late June completion
- Roadway drainage system completed
- Culvert crossing for Pond #25 portion of work to be completed by mid June
- Drilling for bridge footings completed on west bank, start on east bank in mid June
- Crane assembly and bridge erection on schedule for mid-July

Wahkiacus Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by late summer 2010.

Klickitat Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by early fall 2010.

NEPA-EIS

- EIS development is ongoing with BPA and their sub, HDR. Draft EIS scheduled for fall 2010. Final by midsummer 2011.

YKFP-Klickitat Monitoring & Evaluation (M&E)

Summary:

- Spawner surveys/redd counts
 - Steelhead – began in late February, nearly complete in early June
 - Total redd count as of June 3: 181 redds, 63% in mainstem Klickitat, 37% in tributaries (indicates a fairly good run size – see also run size estimates, below)
 - Surveys still incomplete above Castile Falls due to high flows
- Lyle Falls Adult Trap operation
 - Working around construction as possible
 - As of early June, relatively low number of spring Chinook captured in trap (trap operation also hindered by high flows/sediment in mid-late May). See also run size estimates, below.
- Run size estimates
 - Steelhead
 - Final 2009-10 mark-recapture estimates at Lyle Falls:
 - Hatchery steelhead: 3700 (95% confidence interval of 3010 to 4626) – may be biased high by out-of-basin dip-ins
 - Total wild steelhead (summer and winter): 1272 (95% confidence interval of 1074 to 1531)
 - Spring Chinook – forecast was for strong run of ~4500 total adults
 - Mark-recapture population estimate at Lyle Falls as of 6/1/10: 1606 total (95% confidence interval of 819 to 3837), with 95% hatchery fish, 5% wild fish - more fish likely to pass at Lyle in next few weeks.
- Radio telemetry monitoring sites are operating and radio tagging & tracking is continuing. Hatchery and wild steelhead and spring Chinook have been tagged and are being monitored – unexpectedly high dip-in rates for both steelhead and spring Chinook are being observed.
 - Several radio-tagged steelhead likely spawned in White Cr.
- White Cr. instream PIT-tag antenna is operating
 - ~350 out of ~1700 juvenile tagged fish detected as of early June, with most detections in May (remainder are not smolting, or rearing in White Cr. above PIT detector, or outmigrated but not detected [small percentage])

- Several returning adult steelhead detected (radio and PIT-tagged fish, and 1 Bonneville Dam PIT-tagged fish)
- White/Tepee Creek habitat project monitoring
 - Spring invertebrate (aquatic insect) samples have been collected, habitat data is being collected (to evaluate stream response to habitat improvement projects)

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary:

During this reporting period:

- KWEP administration
- Continued planning and design for Lower White Creek project
- Conducted baseline monitoring for Tepee/White Creek Food Web Study in cooperation with Klickitat M&E project
- Continued planning and design for Haul Road project
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
- Stream gage monitoring and maintenance

Management, Data and Habit - July 2010

YKFP-Klickitat Management, Data and Habitat

During this reporting period:

General:

- General project administrative duties
- Updated BPA O&M contract and held meeting with BPA to finalize contract issues
- Coordinated with Kris Proszek/YN Envir. Review to figure out a venue or event to provide information to city and county planners on how to work with the tribe on planning issues that affect the tribe's natural and cultural resources
- Continuing to take part in YN DNR's Ceded Lands Working Group & coordinating with other DNR departments on resource issues
- Taking part in Meadow Surveys as part of a YN Wildlife grant from EPA
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Participated in NOAA Implementation tracking meeting

E&O:

Data Mgmt:

- Provided technical support and oversight on Klickitat Hatchery PIT-tagging operations: approximately 25,000 Hatchery Spring Chinook were tagged. Multiple interruptions occurred due to problems with the automated length measuring equipment, eventually resulting in half the production line assessing and recording weights manually. Replacement length measurement technologies will be explored in conjunction with the P-3 software developers at PSMFC as replacement parts for the older system are no longer available.
- Awaiting guidance from PSMFC PTAGIS database staff to develop a workable strategy for submitting consistent interrogation files from the White Creek array
- Designed and executed custom queries against various KFO databases in support of data and reporting needs of KWEP and RM&E staff

- Updated Hatchery Adult Return data reporting pages on the web site to present 2010 counts:
http://www.ykfp.org/klickitat/hatch_AdultReturns2010.htmhttp://www.ykfp.org/klickitat/Data_lyleadultrap.htm
- Maintained Lyle Adult Trap reporting on the Web: http://www.ykfp.org/klickitat/Data_lyleadultrap.htm.
- Imported stream temperature data on approximately half the Klickitat temperature monitoring stations. This involves data retrieval from an electronic shuttle device, reformatting the data and inputting to the thermograph data base.
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of Habitat Inventory database
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of a GPS waypoint database to better manage this field collected data
- Continued evaluation of the abandoned Fish Presence/Absence database with RM&E and KWEP staff, appraising strategies for organizing, and utilizing this disparate data set
- Continued collaboration with PSMFC monitoring staff in Kennewick, WA, on design of a redundant satellite communications system for the Castile Falls facility. This system will ensure remote monitoring and management of the physical plant, PIT-tag array and video monitoring systems, as well as data transmission of video and PIT tag detection data.
- Monitored current developments in video technology for Castile and Lyle applications
- Provided input on cabling and work area design needs for the Lyle work-up trailer
- Performed various technical support, troubleshooting and recovery operations
- Maintained KFO data back-ups
- Continued with ongoing BPA reporting requirements

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

During this reporting period:

Lyle Falls Fishway Improvement & Monitoring Facility

- William Charles West (WCW) is five months into Lyle Falls Project; rock excavation work now completed. Auxiliary water line is being placed. Iron work and concrete forms are being constructed.
- Final coordination with Klickitat Public Utility District to bring in 3-phase power to site
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>
- Staff are updating Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA

Castile Falls Monitoring Facility

- WCW 2.5 months into project. Rock excavation completed. Interior fishway demolition of concrete completed. Iron work and forms being constructed for exterior walls of monitoring facility and energy building.
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Klickitat Hatchery Vehicle Bridge & Access Road

- New roadway fill in place and road bed on track for Late July completion
- Roadway drainage system completed
- Drilling for bridge footings completed on west bank, work underway on east bank footing
- Crane assembly and bridge erection on schedule for late-July
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Wahkiacus Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by late summer 2010.

Klickitat Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by early fall 2010.

NEPA-EIS

- Continued EIS development is ongoing with BPA and their sub, HDR. Draft EIS scheduled for fall 2010. Final by midsummer 2011.

YKFP-Klickitat Monitoring & Evaluation (M&E)

During this reporting period:

- Spawner surveys/redd counts
 - Steelhead – began in late February, completed in June
 - Total redd count: 181 redds, 63% in mainstem Klickitat, 37% in tributaries (indicates a fairly good run size)
 - Some reaches above Castile Falls not surveyed due to high flows
- Lyle Falls Adult Trap operation
 - Working around construction as possible
 - As of early July, relatively good numbers of hatchery spring Chinook captured in trap, with low numbers of wild spring Chinook (trap operation also hindered by high flows/sediment in mid-late May). High numbers of hatchery steelhead in June. See also run size estimates, below.
- Run size estimates
 - Spring Chinook – forecast was for strong run of ~ 4500 total adults
 - Mark-recapture population estimate at Lyle Falls as of 7/2/10: 2436 total (95% confidence interval of 1927 to 3149), with 92% hatchery fish, 8% wild fish.
- Radio telemetry monitoring sites are operating, and radio tagging & tracking is continuing. Hatchery and wild steelhead and spring Chinook have been tagged and are being monitored.
 - Unexpectedly high dip-in rates for both steelhead and spring Chinook are being observed
 - Several radio-tagged steelhead likely spawned in White Cr.
- Klickitat Hatchery spring Chinook juvenile PIT-tagging
 - Approximately 25,000 fish tagged in June with ~ 1% short-term mortality rate
 - Fish will be released from Hatchery ~ March 2011
- White Cr. steelhead PIT-tag monitoring
 - Instream PIT-tag antenna in lower White Cr. operating
 - 2010 tagging of juvenile steelhead began in June at various sites in White Cr. watershed (White, Tepee, Brush creeks)

YKFP-Klickitat Watershed Enhancement Project (KWEP):

Summary:

During this reporting period:

- Completed final reporting and financial documentation for the SRFB-funded portion of Upper Klickitat Phase II project
- Conducted planning and design associated Castle Springs Enhancement – Phase 1 reach (partnership with UCD)
- Conducted planning and design associated Upper Rattlesnake Creek Project (partnership with MCRFEG)
- Continued design for Tepee Creek Restoration – Phase 2
- Continued monitoring and design for all Tepee Creek projects
 - QC of well data from 15 wells
- Ongoing operation of stream gages at 6 sites
 - QC of stream gage data
 - Calibration, repair, and programming of stream gages to alleviate issues identified through field visits and QC process
- KWEP administration
 - Budget and scope modification
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta
- Planning and design for Haul Road project
- Preparation and presentation of funding proposals for:
 - Upper Klickitat Enhancement - Phase 4

- Klickitat Trail Inventory and Assessment
- Weed control associated with Lower Klickitat Revegetation and Upper Klickitat Phase 2 projects
- Ongoing O&M of KFO plant nursery
 - Procurement of styroblock containers to increase nursery production
 - Collection and planting of 3700 dormant hardwood cuttings (willow, dogwood and cottonwood)
- Installation of stream gage on Big Muddy Creek
- Completed Draft YN and WA State Parks MOU for Klickitat Trail

Management, Data and Habit –August 2010

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Continuing to take part in YN DNR's Ceded Lands Working Group & coordinating with other DNR departments on resource issues
- Participated in Lower Columbia Recovery Plan science team and Steering Committee meetings
- Attended SW WA Planner's Forum quarterly meeting in Stevenson, WA.
- Attended meeting with NOAA Fisheries and Federal Caucus members regarding needs and priority actions in different watersheds in which YN has participated in subbasin planning and salmon recovery planning (White Salmon, Klickitat, Rock Creek)
- Taking part in Meadow Surveys as part of a YN Wildlife EPA grant

E&O:

- Continued participation in the NOAA Lower Columbia Recovery Plan development which is in the implementation scheduling stage (meeting on NOAA pilot implementation schedule tracking project for Mid-C and Lower Columbia);

Data Mgmt:

- Provided technical support and oversight on repair of Klickitat Hatchery internet satellite uplink equipment
- Worked with Dave Marvin from PSMFC PTAGIS database to develop a workable strategy for submitting consistent interrogation files from the White Creek array. All detections generated through the end of April, 2010 were concentrated, through exhaustive format manipulations, into single recapture events and these were submitted to PTAGIS. Dave Marvin was not satisfied with the rigor of our data collection protocols and therefore would not allow minimon interrogation files to be directly submitted to PTAGIS. We requested formal, written data collection protocols for in-stream interrogation sites and were told said protocols were forthcoming. In the future we hope to submit the standard minimon files generated at the White Creek array directly into PTAGIS to avoid the complicated contortions required to submit recap records.
- Designed and executed custom queries against various KFO databases in support of data and reporting needs of KWEP and RM&E staff
- Updated Hatchery Adult Return data reporting pages on the Web site to present 2010 counts:
http://www.ykfp.org/klickitat/hatch_AdultReturns2010.htmhttp://www.ykfp.org/klickitat/Data_lyleadulttrap.htm
- Maintained Lyle Adult Trap reporting on the Web: http://www.ykfp.org/klickitat/Data_lyleadulttrap.htm

- Imported stream temperature data on approximately half the Klickitat temperature monitoring stations. This involves data retrieval from an electronic shuttle device, reformatting the data and inputting to the thermograph database.
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of Habitat Inventory database
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of a GPS waypoint database to better manage this field-collected data
- Continued evaluation of the abandoned Fish/Presence Absence database with RM&E and KWEP staff, appraising strategies for organizing, and utilizing this disparate data set
- Researched communications options for the Lyle and Castile sites
 3. Consulted on fiber optic internet connectivity at the Lyle Adult Trap construction site
- Monitored current developments in video technology for Castile and Lyle applications
- Performed various technical support, troubleshooting and recovery operations
- Maintained KFO data back-ups
- Continued with ongoing BPA reporting requirements
- Began process of filling out Taurus proposal for NPCC

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital):

During this reporting period:

Lyle Falls Fishway Improvement & Monitoring Facility

- William Charles West (WCW) is six months into Lyle Falls Project, rock excavation work now completed. Auxiliary water line is set in over 60% of its course. Iron work and concrete forms are being constructed. Masonry work underway at Equipment/Control building.
- Concrete pours completed for bulkhead at upper end of transportation channel
- Ongoing coordination with Klickitat Public Utility District to bring in 3-phase power to site
- YN and NOAA finalizing plans for PIT tag detector installation
- Staff continuing to update Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Castile Falls Monitoring Facility

- WCW 3.5 months into project. Rock excavation completed. Interior fishway demolition of concrete completed. Iron work and forms completed and concrete pouring has begun on exterior walls of monitoring facility and energy building.
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Klickitat Hatchery Vehicle Bridge & Access Road

- New roadway fill is being placed and road bed is almost complete. Roadway is sufficient to bring in crane (31 semi truck loads) and bridge (3 pieces). Roadway drainage system completed.
- Drilling for bridge footings completed on both east and west bank
- Bridge abutments are in place
- Crane assembly and bridge erection on schedule for late-August
- Media event set for day of bridge placement. Newspapers notified include YN Review, White Salmon Enterprise, Goldendale Sentinel, and Yakima Herald.
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Wahkiacus Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by late summer 2010.

Klickitat Hatchery Design

- Design meeting was held with project engineers, YN staff and USFWS fish health specialists to go over design and ensure proper fish health considerations are being met.
- Design team and YN staff continue scoping meetings and conceptual design plans. Anticipated 30% design completion by early fall 2010.

NEPA-EIS

- Continued EIS development is ongoing with BPA and their sub, HDR. Draft EIS scheduled for fall 2010. Final by midsummer 2011.

YKFP-Klickitat Monitoring & Evaluation (M&E):

- Spawner surveys/redd counts
 - Spring Chinook surveys will start in mid-August
- Lyle Falls trap operation
 - Working around construction as possible
 - Chinook numbers decreased in July as spring Chinook run ends (overall high numbers of hatchery fish, low numbers of wild fish), with some summer Chinook being captured in July-early Aug. High numbers of hatchery steelhead in July; wild steelhead numbers picking up.
- Updated Run size estimates
 - Spring Chinook – forecast was for strong run of ~ 4500 total adults
 - Mark-recapture population estimate at Lyle Falls as of 7/20/10: 4810 total (95% confidence interval of 3795 to 6223), with 90% hatchery fish, 10% wild fish.
- Radio telemetry monitoring sites are operating and radio tagging & tracking is continuing. Hatchery and wild steelhead and spring Chinook have been tagged and are being monitored.
 - Several radio-tagged fish moving into mid- and possibly upper basin
- White Cr. steelhead PIT-tag monitoring
 - Instream PIT-tag antenna in lower White Cr. operating
 - 2010 tagging of juvenile steelhead began in June at various sites in White Cr. watershed (White, Tepee, Brush creeks) – nearly complete, ~1100 fish tagged
- White/Tepee Creeks food web/habitat improvement response study
 - 2010 is second year of pre-habitat improvement sampling; habitat work will occur in 2011 then post-habitat improvement sampling will occur to evaluate response in abundance and diversity of invertebrate (insect) communities and availability of food for fish
 - Invertebrate (insect) sampling completed in July 2010 – benthic, drift, and pan trap sampling
 - Fish abundance and fish stomach contents sampling completed in July 2010

YKFP-Klickitat Watershed Enhancement Project (KWEP)

Summary

During this reporting period:

- Conducted timber falling and preparation of bid documents associated with Castle Springs Enhancement – Phase 1 reach (partnership with UCD)
- Completed design for Tepee Creek Restoration – Phase 2
- Continued monitoring and design for all Tepee Creek projects
 - QC of well data from 15 wells
- Ongoing operation of stream gages at 6 sites
 - QC of stream gage data
 - Calibration, repair, and programming of stream gages to alleviate issues identified through field visits and QC process
- KWEP administration
 - Budget and scope modification
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta
- Haul Road project (partnership with Columbia Land Trust)
 - Conducted inspections and construction oversight for asphalt removal along upper portion of Haul Road
 - Planning and design for Phase 2 construction
- Presentation of funding proposals for:
 - Upper Klickitat Enhancement - Phase 4
 - Klickitat Trail Inventory and Assessment

- Weed control associated with Lower Klickitat Revegetation and Upper Klickitat Phase 2 projects
 - Teepee Cr - IXL Meadows Restoration
 - Teepee Cr / 175 Rd Fish Passage Enhancement
 - EF Teepee Cr / 175 Rd Fish Passage Enhancement
 - White Cr / IXL Rd Fish Passage Enhancement
 - Upper Klickitat Phase 2 In-stream Enhancement
 - Lower Klickitat Re-vegetation Project
- Ongoing O&M of KFO plant nursery
 - Collection and planting of 3700 dormant hardwood cuttings (willow, dogwood and cottonwood)
- Coordination and development with USGS and PSU contacts evaluating geologic hazards in the Klickitat Subbasin

Management, Data and Habit –September 2010

YKFP-Klickitat Management, Data and Habitat.

During this reporting period:

General:

- General project administrative duties
- Updated O&M contract and input into TAURUS
- Assisted with spawning and data collection of spring Chinook at Klickitat Hatchery
- Met with landowner at prospective Husum field office property
- Attended SW WA RC&D meeting

E&O:

- preparation with USFWS for upcoming school year of ongoing Salmon in the Classroom program
- tour of Bird Cr. Meadows with Northwest Service Academy staff—talk/hike re: ethnobotany and tribal history surrounding Pahto, reservation boundaries, etc.
- Led River Camp (teacher training) ethnobotany talk/hike on Wind River
- Attended tribal sovereignty curriculum workshop at Heritage University

Data Systems Management:

- Assisted with Klickitat Hatchery Spawning activities including data collection, data input/validation, and hands on work with the brood stock and eggs
- Provided technical support and oversight on repair of Klickitat Hatchery internet satellite uplink equipment
- Rebuilt two good surplus computers and began the process of setting them up to replace the very old computers presently in service at the Klickitat Hatchery
- Worked with USGS biologists to streamline submittal process for White Creek interrogation file submissions to PTAGIS
- Designed and executed custom queries against various KFO databases in support of data and reporting needs of KWEP and RM&E staff
- Updated Hatchery Adult Return data reporting pages on the Web site to present 2010 counts:
http://www.ykfp.org/klickitat/hatch_AdultReturns2010.htmhttp://www.ykfp.org/klickitat/Data_lyleadulttrap.htm
- Maintained Lyle Adult Trap reporting on the Web: http://www.ykfp.org/klickitat/Data_lyleadulttrap.htm.

- Imported stream temperature data on the second half the Klickitat temperature monitoring stations. This involves data retrieval from an electronic shuttle device, reformatting the data and inputting to the thermograph data base.
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of Habitat Inventory database
- Continued collaboration with RM&E and KWEP staff, data modeling, design & build of a GPS waypoint database to better manage this field collected data
- Continued evaluation of the abandoned Fish Presence/Absence database with RM&E and KWEP staff, appraising strategies for organizing, and utilizing this disparate data set
- Researched communications options for the Lyle and Castile sites
- 4. Established fiber optic internet connectivity at the Lyle Adult Trap construction site.
- Monitored current developments in video technology for Castile and Lyle applications
- Performed various technical support, troubleshooting and recovery operations.
- Maintained KFO data back-ups
- Continued with ongoing BPA reporting requirements
- Completed process of filling out TAURUS proposal for NPCC
- Began Review and Update of the Klickitat Information Systems/Data Management Plan
- Performed troubleshooting on the Arc GIS Image server at the KFO

YKFP-Klickitat Design & Construction (Expense) & Klickitat Construction (Capital)

During this reporting period:

Lyle Falls Fishway Improvement & Monitoring Facility

- William Charles West (WCW) is six months into Lyle Falls Project; rock excavation work now completed. Auxiliary water line is being placed. Iron work and concrete pours accruing on most structures. Equipment Control Building exterior forms constructed, transportation channel iron working underway, PIT-tag array forms in place in transportation channel. Divers on site to refine plan for entrance modifications.
- Ongoing coordination with Klickitat Public Utility District to bring in 3-phase power to site
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>
- Staff are updating Lyle Falls EIS and Mitigation Action Plan compliance reporting and submitted to BPA. August review from BPA NEPA completed. Electrical conduit work underway.
- PSMFC onsite to review PIT-tag array placement.
- NOAA design engineer on site to review project
- German documentary crew filming on site 9/16/10

Castile Falls Monitoring Facility

- WCW 3.5 months into project. Rock excavation completed. Interior fishway demolition of concrete completed. Iron work and forms completed, concrete pours for exterior walls of monitoring facility and energy building. Electrical conduit work underway. PSMFC onsite to review PIT-tag array placement.
- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>

Klickitat Hatchery Vehicle Bridge & Access Road

- New roadway fill in place and road bed on track for completion, 6" top course of ¼ minus left to be placed
- Roadway drainage system completed
- Bridge setting occurred on 8/26/10
- Excerpt from Media release: *The Yakama Nation and Washington Department of Fish & Wildlife (WDFW) announce the construction of a new bridge and road system upgrade at the Klickitat Hatchery, near Glenwood, WA. On August 26 a steel box girder single span bridge 165 ft in length was installed on hatchery property to replace an aging and inferior foot bridge. This single lane vehicle bridge allows for future hatchery expansion and more secure emergency access and egress than currently exists. In addition, the bridge will convey primary spring water system to the hatchery, replacing the aging pipeline under the river. Lampson Inc., Apollo Inc. subcontractor, will erect a Manitowoc ring crane with a boom over 200 feet high to install the 165 foot long bridge. Over 25 semi truck loads will deliver the 300 ton capacity*

crane for erection on site. The 80 ton bridge will be delivered in three sections (two 18 ton sections and one 44 ton section) then assembled for hoisting and installation onto previously constructed pile supported abutments. Bridge and crane assembly is expected to require two weeks and box girder placement less than one day. Construction of the precast concrete deck, curbs and guard rails will require an additional 4 weeks. Upon completion this bridge will be the longest girder bridge in Klickitat County and provide public pedestrian access to the opposite shore for fishing opportunities near the hatchery as defined by WDFW sport fishing regulations.

- Project website updates at <http://www.ykfp.org/klickitat/Accords.htm>
- Video of bridge setting to be uploaded to website soon

Wahkiacus Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. 30% design completion CAD files forwarded to BPA for DEIS document
- Refinement of construction cost estimate underway by Harbor for possible inclusion in DEIS
- Funding strategy meeting held with BPA 7/29/10. Once EIS ROD is complete 7/2010, and depending on that outcome, then revisit WHAF funding strategies

Klickitat Hatchery Design

- Design team and YN staff continue scoping meetings and conceptual design plans. 30% design completion by mid-Sept 2010.
- CAD overlay maps forwarded to BPA for DEIS document.
- Refinement of construction cost estimate underway by Harbor for possible inclusion in DEIS

NEPA-EIS

- Continued EIS development is ongoing with BPA and their sub, HDR. Draft EIS scheduled for fall 2010. Final by midsummer 2011.

YKFP-Klickitat Monitoring & Evaluation (M&E)

During this reporting period:

- Klickitat Hatchery spring Chinook broodstock spawning started in August, completed in early Sept.; M&E staff collected bio data (lengths, scales for age data, DNA samples) on spawners and hatchery returns
 - Strong return made for more than adequate numbers of broodstock fish
- Spawner surveys/redd counts
 - Spring Chinook surveys started in mid-August; preliminary results similar to last few years, indicating a fairly low number of wild fish
- Lyle Falls trap operation
 - Construction project shutting down Lyle fishway in early September
 - For August-early Sept., catch numbers of wild and hatchery steelhead was fairly high, along with summer Chinook in early August and fall Chinook in late Aug.-early Sept.
- Radio telemetry monitoring sites are operating and radio tracking is continuing. Radio tagging continued until Lyle fishway shutdown in early Sept. Hatchery and wild steelhead (128 fish to date) and spring Chinook (54 to date) have been tagged and are being monitored.
 - Several radio-tagged steelhead and Chinook moved into mid- and possibly upper basin
- White Cr. steelhead PIT-tag monitoring
 - Instream PIT-tag antenna in lower White Cr. operating
 - 2010 tagging of juvenile steelhead completed at various sites in White Cr. watershed in August (White, Tepee, Brush creeks) – 21 sites, 1115 fish tagged
- White Cr. population estimates (juvenile steelhead) completed at four sites planned for large woody debris placement in August
 - Represents 3rd year of pre-project data, to be compared to post-project data to determine fish response to habitat improvement

YKFP-Klickitat Watershed Enhancement Project (KWEP):

During this reporting period,

- Continued monitoring and design for all Tepee Creek projects
 - QC of well data from 15 wells
 - Sorting of macroinvertebrate samples for subsequent identification and measurement
- Ongoing operation of stream gages at 6 sites
 - QC of stream gage data
 - Calibration, repair, and programming of stream gages to alleviate issues identified through field visits and QC process
 -
- Installation of two stations to monitor turbidity from Big Muddy Cr.
 - mainstem Klickitat River (at Klickitat Field Office)
 - Big Muddy - this site continues to be problematic
 - difficult physical and geologic conditions
 - has required three different installations and numerous modifications in the first year
 - a more robust location for longer-term installation has been identified and will likely be installed in September or October
- KWEP administration
 - Budget and scope modification (ongoing for several months now)
- Continued to operate sensors to read water depth, water and air temperature, and wind speed/direction at 4 locations around the Klickitat Delta.
 - Installation of staff gage at West-Delta site
 - Repair and reinstallation of East-Delta site
- Haul Road project (partnership with Columbia Land Trust)
 - Conducted inspections and construction oversight for asphalt removal along upper portion of Haul Road
 - Planning and design for Phase 2 construction
 - Preparation of bid documents
 - Field layout
 - On-call to answer bidders' questions
- Finalization of SRFB funding proposals for:
 - Upper Klickitat Enhancement - Phase 4
 - Klickitat Trail Inventory and Assessment
- Weed control associated with Lower Klickitat Revegetation and Upper Klickitat Phase 2 projects
 - Upper Klickitat Phase 2 In-stream Enhancement
 - Surveyor's Creek Fish Passage Enhancement site
- Ongoing O&M of KFO plant nursery
 - Collection and planting of 3700 dormant hardwood cuttings (willow, dogwood and cottonwood)
- Coordination and development with USGS and PSU contacts evaluating geologic hazards in the Klickitat Subbasin
 - Investigation of potential debris flow deposit with USGS personnel near Stinson Flats