

**ANNUAL REPORT  
CALENDAR YEAR 2005  
OF ACTIVITIES UNDER THE ANADROMOUS FISH AGREEMENT  
AND HABITAT CONSERVATION PLAN**

**WELLS HYDROELECTRIC PROJECT  
FERC LICENSE NO. 2149**

**Prepared for**

Federal Energy Regulatory Commission  
888 First Street N.E.  
Washington, D.C. 20426

**Prepared by**

Anchor Environmental, L.L.C.  
1423 Third Avenue, Suite 300  
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and  
Public Utility District No. 1  
of Douglas County, Washington  
1151 Valley Mall Parkway  
East Wenatchee, Washington 98802 - 4497

**April 2006**



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## 1 INTRODUCTION

On June 21, 2004, the Federal Energy Regulatory Commission (FERC) approved an Anadromous Fish Agreement and Habitat Conservation Plan (HCP) for the Wells Hydroelectric Project (Wells Dam – FERC License No. 2149) on the Columbia River in Washington State. The Wells Project is owned and operated by Public Utility District No. 1 of Douglas County (Douglas PUD). The HCP provides a comprehensive and long-term adaptive management plan for species covered under the HCP (Plan Species) and their habitat. This document is intended to fulfill Section 6.9 of the HCP and Article 59 of the Wells Project FERC License requiring an annual report of progress toward achieving the No Net Impact (NNI) goal described in Section 3 of the HCP and common understandings based upon completed studies.

Designated representatives of the signatories of the Mid-Columbia HCPs (HCPs of the Wells, Rocky Reach, and Rock Island hydroelectric projects) comprise the Coordinating Committees, Hatchery Committees, and Tributary Committees for each HCP, which meet collectively to expedite the process for overseeing and guiding the implementation of their respective HCPs. Minutes from the monthly meetings are compiled in Appendices A (Coordinating Committees), B (Hatchery Committees), and C (Tributary Committees); Appendix D lists members of the Wells HCP Committees. The Coordinating Committee for the Wells HCP oversaw the preparation of this second Annual Report for calendar year 2005, which covers the period from January 1 to December 31, 2005 (the first Annual Report covered January 1 to December 31, 2004).

## 2 PROGRESS TOWARD MEETING NO NET IMPACT

The Wells Dam HCP requires preparation of an Annual Report that describes progress toward achieving the performance standard of NNI for each Plan Species. The NNI standard consists of two components: 1) 91 percent combined adult and juvenile project survival achieved by project improvement measures implemented within the geographic area of the project, and 2) 9 percent compensation for unavoidable project mortality provided through hatchery and tributary programs, with 7 percent compensation provided through hatchery and 2 percent through tributary programs (Section 3.1 of the HCP). Section 4.1 of the HCP states that, given the present inability to differentiate between the sources of adult mortality, initial compliance with the combined adult and juvenile survival standard will be based on the measurement of 93 percent juvenile project survival or 95 percent juvenile dam passage survival (described further in Section 4.1.2 of the HCP).

A major feature of the Wells HCP is what is termed a “phased implementation plan” to achieve the survival standards. Briefly, Phase I consists of implementation of juvenile and adult operating plans and criteria to meet the survival standards, and a monitoring and evaluation program to determine compliance with the survival standards. Following completion of the 3-year monitoring and evaluation program in Phase I, the Wells HCP Coordinating Committee will determine whether the pertinent survival standards have been achieved. Depending upon the results of this determination, Douglas PUD would either proceed to Phase II (if the applicable survival standards have not been achieved) or Phase III (if the applicable survival standards have been achieved). Under Phase II conditions (where the Wells HCP Coordinating Committee has determined that the standards have not been met), Douglas PUD would be responsible for evaluating additional tools to improve survival. Under Phase III conditions (where the Wells HCP Coordinating Committee has determined that the survival standards have been achieved), Douglas PUD would be required to re-evaluate survival at 10-year intervals. It should be noted that juvenile survival studies conducted during Phase I may result in different phase designations for each of the Plan Species.

Throughout 2005, the HCP Coordinating, Hatchery, and Tributary Committees made and noted a number of agreements during committee meetings in order to document HCP decisions and support the future achievement of NNI. These agreements are summarized in Table 1 and are discussed in the remainder of this report.

**Table 1**  
**2005 Decisions for Wells HCP**

<b>Date</b>	<b>Agreement</b>	<b>HCP Committee</b>	<b>Reference</b>
January 19, 2005	Tributary Committee Funding Policies	Tributary	Appendix L
February 10, 2005	HCP Tributary Committee Operating Protocols	Tributary	Appendix C, Feb. 10
February 22, 2005	2005 Bypass Operating Plan	Coordinating	Appendix A, Feb. 22
February 22, 2005	Summary Agreement – Adult Fall-back Studies and Phase Designation	Coordinating	Appendix A, Feb. 22
February 22, 2005	Wells Action Plan	Coordinating	Appendix A, Feb. 22
May 18, 2005	CRITFC request to sample fish at Wells Dam in concert with normal broodstock collection activities	Hatchery	Appendix B, May 18
June 14, 2005	2005 Broodstock Collection Protocols (for hatchery production facilities operated by WDFW)	Hatchery	Appendix H; Appendix B, Jun. 14
July 26, 2005	HCP Coordinating Committee Operating Protocols	Coordinating	Appendix A, Jul. 26
August 19, 2005	HCP Hatchery Committee Operating Protocols	Hatchery	Appendix B, Aug. 19
September 21, 2005	Summary Agreement – Douglas PUD M&E Plan	Hatchery	Appendix B, Sep. 21.
September 21, 2005	Douglas PUD providing Grant PUD with 150,000 steelhead for survival studies at Priest Rapids Dam	Hatchery	Appendix J; Appendix B, Sep. 21
January 12, 2006*	Funding of 2005 General Salmon Habitat Proposals	Tributary	Appendix C, Jan. 12

\* This 2006 decision is included here because of its relevance to text in Section 2.3.3.

As of the HCP approval date (June 2004), Douglas PUD has met the survival standards for all Plan Species, completed adult fall-back assessments, completed all Phase I testing, and is in Phase III of the phased implementation. In February 2005, the Wells HCP Coordinating Committee agreed that yearling Chinook and steelhead are designated to be in Phase III (Standards Achieved) and that sockeye and subyearling Chinook are in Phase III (Additional Juvenile Studies) (Appendix F). In addition to confirming the phase designations for these species, the summary agreement for this decision also states that “The PUD, following agreement of the Wells HCP Coordinating Committee, will test fall-back rates on adult plan species should there be a significant change in project operation, Douglas PUD’s hatchery programs, or if a Mid-Columbia adult telemetry study is planned” (Appendix F). Table 2 summarizes phase designations for the Wells HCP to date.

**Table 2**  
**Phase Designations for Wells Dam**

Plan Species	Phase Designation	Date
Upper Columbia River steelhead	Phase III (Standard Achieved)	February 22, 2005
UCR spring Chinook	Phase III (Standard Achieved)	February 22, 2005
UCR summer/fall Chinook	Phase III (Additional Juvenile Studies)	February 22, 2005
Okanogan River sockeye	Phase III (Additional Juvenile Studies)	February 22, 2005
Coho*	N/A	N/A

\* A "threshold population" (as defined in the HCP) of coho salmon does not yet exist, nor has the Wells HCP Hatchery Committee made a determination on the existence of a long-term coho hatchery program.

The following sections of this report chart progress made in 2005 toward achieving the HCP objectives as they relate to continued implementation of the juvenile and adult passage plans, and project improvements for hatchery programs and tributary programs.

## **2.1 Project Operations and Improvements**

This section summarizes project operations and progress toward meeting HCP requirements at Wells Dam in 2005.

### **2.1.1 Operations**

Operation of the juvenile bypass system in 2005 was guided by the Bypass Operating Plan contained within Section 4.3 of the Wells HCP. The bypass initiation date of April 12, 2005 and bypass termination date of August 26, 2005 were implemented per the Pre-season Operating Plan agreed to by the Wells HCP Coordinating Committee in February 2005 (Appendix A; Appendix G). In December 2005, Douglas PUD prepared a bypass operation summary that described the operational criteria for the bypass system, as well as the initiation and termination dates for the Wells bypass system (Appendix G). The year 2005 was the second year that operation of the bypass system was guided by representatives of the Wells HCP Coordinating Committee.



Flows at Wells Dam during the 2005 juvenile plan species migration (April to August) were at 95 percent of the 20-year average. Operationally, all five bypass bays were available and were utilized as required during the 2005 outmigration.

The spring bypass season started on April 12 at 0000 hours, and the system operated continuously through June 13 at 2400 hours (63 days). Spring bypass operations utilized a total discharge of 1.1 million acre feet (MAF), or 7.6 percent of total project discharge. During the spring bypass operation, there was forced spill during 67 hours or 4.4 percent of the season, with the highest single hour of forced spill occurring on May 27 with 96.8 thousand cubic feet per second (kcfs) spilled. In May of 2005, Douglas PUD began a 1-year study to develop relationships between spill, spillway operations, tailwater elevation, and observed levels of total dissolved gas in the tailrace of the dam. Most of the forced spill observed resulted from various spill configurations tested during the implementation of that study. The highest hourly discharge occurred on May 25 at 2100 hours with 221.5 kcfs flowing through the project.

Summer bypass started on June 14 at 0000 hours and ran until August 26 at 2400 hours, for a total of 74 days. There was 6.8 percent (1.3 MAF) of the total discharge dedicated to summer bypass. During the summer bypass operating period, there were 26 hours of forced spill.

### **2.1.2 Assessment of Project Survival**

As previously noted, as of the approval of the HCP, Douglas PUD had met the Phase I HCP requirements of 91 percent combined adult and juvenile project survival. In 2005, Douglas PUD successfully implemented the juvenile and adult passage plans, participated in selection of tributary improvement projects, and made progress toward achieving hatchery improvements covered in the HCP, including documenting adult fall-back conditions and facilities maintenance.

#### **2.1.2.1 Adult Passage Monitoring**

The HCP acknowledges that no scientific methodology currently exists that would allow the Wells HCP Coordinating Committee to assess adult project survival (presumed to be 98 percent). This is because available methodologies are unable to

differentiate between mortality caused by the project versus mortality from other sources (natural causes, injuries resulting from passage at downstream projects, injuries sustained by harvest activities, etc.). However, the Wells HCP Coordinating Committee is able to evaluate information to assess whether or not there is a high likelihood that the presumed adult survival rates are being achieved. Table 3 details detections of known origin adult Passive Integrated Transponder (PIT)-tagged steelhead and Chinook salmon at McNary Dam in 2005, the number of adults redetected at Wells Dam, the estimated conversion rate (McNary Dam to Wells Dam), and average per project (five dams and reservoirs) conversion rates. These conversion rates are best viewed as a minimum survival estimate between the two detection sites. (They contain mortalities from all sources between the two detection sites.) They do not include any indirect or delayed mortality that might occur upstream of Wells Dam (the redetection site). The per project conversion rate exceeded 96 percent in 2005 for steelhead and spring and summer Chinook salmon (that is, mortalities from all sources averaged less than 4 percent through each project) on a per project basis. It should be noted that this 4 percent figure reflects a combination of mortality attributable to non-project related causes (e.g., harvest, tailrace spawning, and disease), as well as dam passage. For this reason, it is highly likely that the 2005 conversion rate is consistent with the 2 percent per project performance standard set forth in the HCP.

**Table 3  
Adult Conversion Rates for 2005**

Stock Species	McNary Dam	Wells Dam	McNary to Wells Total Conversion Rate	McNary to Wells Average Per Project Conversion Rate <sup>1</sup>
All Releases <sup>2</sup> Summer Steelhead 2005	1,6132	1,3387	82.9%	96.3%
All Releases <sup>3</sup> Spring Chinook 2005	120	118	98.6%	99.7%
All Releases Summer Chinook 2005	16	14	87.5%	97.3%

1 Calculated as McNary Dam to Wells Dam Total Conversion Rate to the 5<sup>th</sup> root (five dams and five pools). Any mortality occurring within the 41 mile free-flowing Hanford Reach of the Columbia River is also incorporated into this estimate and evenly distributed among the five dams and reservoirs. Adults detected at Wells Dam that were not also detected at McNary Dam were excluded from the analysis.

Source: Columbia River DART website: [http://www.cqs.washington.edu/dart/pit\\_obs\\_adult\\_conrate.html](http://www.cqs.washington.edu/dart/pit_obs_adult_conrate.html)

2 Summer steelhead released into the Okanogan and Methow River Systems – PIT-tag release site designations: CHEWUR, METHR, OKANR, OMAKC, SIMILR, TWIS2P, TWISPR, and WINT.

3 Spring Chinook salmon released into Methow River System – PIT-tag release site designations: CHEWUP, METH, TWISPP, and WINT.

Although not part of the HCP process, bull trout were considered as part of adult passage issues addressed at Wells Dam in 2005. In 2004, FERC issued an order incorporating the HCP and the U.S. Fish and Wildlife Service *Bull Trout Biological Opinion* into the FERC license for the Wells Dam Project. Article 61 of the Wells Project license requires Douglas PUD to file with FERC a multi-year Bull Trout Monitoring and Management Plan (Appendix I). The plan outlines the goals, objectives, and implementation strategy for monitoring and evaluating bull trout presence in the project area, and to quantify and address, to the extent feasible, potential project-related impacts on bull trout from project operations and facilities (Appendix I).

#### 2.1.2.2 Completed Studies 2005

The Wells Dam HCP requires Douglas PUD to identify adult fall-back rates at Wells Dam by the end of Phase I. Studies addressing adult fall-back at Wells Dam were summarized at the December 13, 2004 meeting of the Wells HCP Coordinating Committee. Douglas PUD reviewed adult fall-back studies from 1992 – 2002 at

Wells Dam and the Wells HCP Coordinating Committee approved these rates in February 2005 (Appendix F).

Douglas PUD completed a 1-year Total Dissolved Gas (TDG) study in 2005, which evaluated spill configurations and volumes through Wells Dam. Results showed that certain spill volumes affected TDG. Spill tests looked at 1) spill over loaded and unloaded powerhouse units; 2) spill on the east and west side of the project; and 3) flat spill versus crowned spill. Data analysis has been performed showing slight improvements under certain operations. A report is due by spring of 2006.

## **2.2 Hatchery Compensation**

As required by the HCP, Douglas PUD supported hatchery production in 2005 to compensate for unavoidable project mortality. Section 8 of the Wells Dam HCP outlines a Hatchery Compensation Plan with two hatchery objectives for Douglas PUD: 1) to provide hatchery compensation for all of the Plan Species, including spring Chinook salmon, summer/fall Chinook salmon, sockeye salmon, summer steelhead, and coho salmon (should they become established under the criteria set forth in HCP Section 8.4.5.1); and 2) to implement specific elements of the hatchery program consistent with the overall objectives of rebuilding natural populations and achieving NNI.

Hatchery compensation in 2005 included the release of 1,414,906 smolts from hatcheries associated with Wells Dam (Appendix K). This does not include the sockeye production gained through the Fish-Water Management Tool project administered by the Okanagan Nation Alliance. Also, the 5-year hatchery monitoring and evaluation plan was finalized and approved by the Wells HCP Hatchery Committee on September 21.

### **2.2.1 Hatchery Production Summary**

Tables 4 and 5 summarize and compare HCP hatchery production objectives and actual 2005 production levels for both the original inundation compensation program and HCP passage loss compensation program.

### 2.2.1.1 *Inundation Compensation Program*

The FERC license to operate the Wells Hydroelectric Project requires Douglas PUD to raise and release fish to compensate for original impacts associated with the development of the Wells Reservoir. All of the fish for this program are raised at the Wells Fish Hatchery. The number and pounds of fish to be released each year for the Inundation Compensation Program can be found in Section 8.4.6 of the Wells HCP Agreement.

**Table 4  
Production Objectives for the Inundation Compensation Program and Releases in 2005**

<b>Inundation Compensation Program</b>	<b>Numeric Target</b>	<b>Poundage Target</b>	<b>Number Released</b>	<b>Pounds Released</b>
Yearling Summer/Fall Chinook (2003 brood year)	320,000	32,000	313,509	31,351
Subyearling Summer/Fall Chinook (2004 brood year)	484,000	24,200	471,123 <sup>1</sup>	13,134
Yearling Summer Steelhead (2004 brood year)	300,000	50,000	300,000	53,571

1 C. Snow June 2005 Memo shows an early release on May 18 of 230,649 (44.6 fpp) and a late release on June 13 of 240,474 (30.2 fpp). The poundage obligation was not met this year due to an early experimental release of fish conducted by hatchery evaluation staff.

### 2.2.1.2 *No Net Impact Compensation Program*

Section 8.4.3 of the Wells HCP contains specific numbers and pounds of juvenile plan species to be produced to meet Douglas PUD's No Net Impact production levels for unavoidable juvenile losses at the Wells Project. Juvenile passage losses are offset through the production of juvenile plan species at three facilities (Wells Fish Hatchery, Methow Fish Hatchery, and Eastbank Fish Hatchery) and through the implementation of mitigation options identified in the Sockeye Enhancement Decision Tree.

**Table 5**  
**Production Objectives for the HCP Passage Loss Compensation Program and Releases in 2005**

<b>No Net Impact Compensation Program</b>	<b>Numeric Target</b>	<b>Poundage Target</b>	<b>Number Released</b>	<b>Pounds Released</b>
Yearling Summer Steelhead (2004 brood year)	48,858	8,143	64,546	11,526
Yearling Summer/Fall Chinook (2003 brood year)	108,570 <sup>1</sup>	10,857	108,570	6,786
Yearling Spring Chinook (2003 brood year)	286,071 <sup>2</sup>	19,071	157,158 <sup>3</sup>	9,701
Yearling Osoyoos Lake Sockeye <sup>4</sup>	7%	NA	55%	NA

- 1 Carlton Pond Summer Chinook released by Chelan PUD as part of Douglas-Chelan Hatchery Sharing Agreement.
- 2 Spring Chinook obligation includes 61,071 NNI smolts and 225,000 species trade for sockeye. The 03 brood year is the last year of the species trade.
- 3 Methow Hatchery Spring Chinook smolts released were 302,152 at 16.2 fpp (April 2005 Memo from C. Snow) due to insufficient adult collection of Endangered Species Act (ESA) origin fish. This is 55% of a full program of 550,000 fish. Due to the Hatchery Sharing Agreement with Chelan PUD, Douglas shares in the production shortfall equally and thus will show a release of 157,158 fish.
- 4 Okanogan Sockeye obligation for NNI is handled through the Fish/Water Management Tool program managed through the Okanagan Nation Alliance. The Wells HCP Hatchery and Coordinating Committees have agreed that the continued implementation of this program will satisfy Douglas PUD's 7% hatchery compensation requirement.

### **2.2.2 Hatchery Planning**

During 2005, Douglas PUD and Washington Department of Fish and Wildlife (WDFW) completed a *Monitoring and Evaluation Plan* (M&E Plan) for operation of Douglas PUD hatchery programs. During the preparation of the plan, the schedule for plan finalization as required by the HCP was shifted several months upon agreement of both the Wells HCP Hatchery and Coordinating Committees to accommodate Committee comments (see Appendices A and B). Following the inclusion of these comments into the plan, the final plan was approved by the Wells HCP Hatchery Committee in September 2005 (Appendix M). The goal of the M&E Plan is to assist in the determination of whether the specific hatchery objectives defined by the HCP are being met. Implementation of the M&E Plan will begin in 2006, and the HCP specifies that this plan will be reevaluated and adjusted, as necessary, every 5 years.

In July 2005, Douglas and Grant PUDs met within the terms of the 2004 Interlocal Cooperation Agreement to identify and discuss the ability of Douglas PUD to provide Grant PUD with 150,000 yearling steelhead to be used for survival studies. These fish were in addition to the 100,000 steelhead and 201,000 spring chinook already being

reared by Douglas PUD for Grant PUD's mitigation obligations at the Priest Rapids Project (Appendix J).

Grant and Douglas PUDs brought Grant PUD's request to have Douglas PUD raise 150,000 hatchery steelhead for survival studies at Grant PUD's dams to the attention of the Wells HCP Hatchery Committee during the August meeting, and the request was approved at the September 2005 meeting (Appendix B).

### **2.2.3 Maintenance and Improvements**

Maintenance activities supporting hatchery production at Wells Dam in 2005 included the redesign of the Twisp and Chewuch weirs and improvements to the Twisp Acclimation Pond intake screen.

#### *2.2.3.1 Chewuch Weir*

Designs for the Chewuch Adult Collection weir were completed in 2004. Construction was scheduled for 2005; however, permitting difficulties prevented the site from being developed. Douglas PUD is continuing to work with the HCP Hatchery Committees to address public comments and permitting concerns related to the installation of the proposed weir on the Chewuch River.

#### *2.2.3.2 Wells Hatchery Screens*

Design refinements were completed in December 2005 during the planning process for the installation of new fish screens on the surface-water intake for the Wells Hatchery. Douglas PUD anticipates that contractor selection and construction of the new screens will occur in 2006.

#### *2.2.3.3 Twisp Weir Improvements*

In 2005, improvements were made to the existing Twisp weir. These improvements included the addition of a weir inflation/deflation system to prevent fish stranding behind or on the existing picket panels, and a notch was cut in the weir sill to concentrate attraction flow through the trap box. Following the seasonal removal of the trap box in August 2005, WDFW requested that Douglas PUD enlarge the trap box prior to reinstallation in the spring of 2006. Based upon this request, Douglas

PUD has increased the size of the trap box. The new trap box is scheduled to be installed in the Twisp River in March of 2006.

#### **2.2.3.4 Twisp Screen Improvements**

The existing intake screen for the Twisp Acclimation Pond was redesigned and reconstructed during early 2005. The new system includes a newly designed intake screen, intake structure, buried water supply pipeline, and automated air-burst screen cleaning system.

### **2.3 Tributary Committees and Plan Species Accounts**

In 2005, the initial focus of the HCP Tributary Committees was to adopt operating procedures, which provide a mechanism for decision-making on various issues related to the Committees (see Appendix C). Subsequently, the HCP Tributary Committees developed policies for soliciting, reviewing, and approving project proposals (Appendix L). These policies document and provide formal guidance to project sponsors on the submission of proposals for projects to protect and restore habitat of Plan Species within the geographic scope of the HCP. The operating procedures and funding policies of the Rock Island, Rocky Reach, and Wells HCP Tributary Committees are essentially the same. The HCP Tributary Committees established two complementary funding programs, the General Salmon Habitat Program and the Small Projects Program, which are discussed in Sections 2.3.3 and 2.3.4, respectively.

#### **2.3.1 Regional Coordination**

To improve regional coordination, the HCP Tributary Committees invited Grant PUD to participate in HCP Tributary Committees meetings; representatives from Grant PUD attend these sessions. This benefits the HCP Tributary Committees through increased coordination and sharing of expertise; however, the Grant PUD representatives have no voting authority in the HCP Committees. The HCP Tributary Committees, through the HCP Coordinating Committees, also invited American Rivers and the Confederated Umatilla Tribes, two parties that contributed to the development of the HCP, yet elected not to sign the document. Neither of these parties have actively participated in the deliberations of the HCP Tributary Committees.



In conjunction with the Washington State Salmon Recovery Funding Board (SRFB), the HCP Tributary Committees held a workshop in June 2005 to inform the public of the procedures to request funds for habitat projects. Moreover, the chairperson of the HCP Tributary Committees attends the meetings of the SRFB and the Upper Columbia Salmon Recovery Board to foster coordination in developing and selecting projects for funding. Roughly half (four of nine) of the projects approved for funding by the HCP Tributary Committees had matches provided by the SRFB.

### **2.3.2 Ownership of the Plan Species Accounts**

The members of the HCP Tributary Committees resolved an important issue related to the ownership of the Plan Species accounts. The opinions of the legal advisors to WDFW and National Marine Fisheries Service (NMFS), differed from those of Chelan and Douglas PUDs regarding whether the funds in the Plan Species accounts were owned by the HCP Tributary Committees or were maintained by the PUDs themselves. This had considerable bearing on the procedures and obligations of the PUDs when contracting with project sponsors. The HCP Tributary Committees (and their legal advisors) agreed that the costs of conducting the work would be significantly less if conducted through the HCP Tributary Committees, compared to that done by the PUDs, which are encumbered with more stipulations on bidding, contracting, and disbursement. Additionally, if the funds were to belong to the PUDs, funding decisions by the HCP Tributary Committees could be subject to approval by the respective Boards of Commissioners of the PUDs, threatening the autonomy of the HCP Tributary Committees.

It was the mutual interest of all parties to maximize the funding efficiencies of the Plan Species accounts through the HCP Tributary Committees voting authority, project management, fiscal reporting, and delegation of executive authority to the chair. All parties agreed that this approach has little precedent and a certain level of legal risk, but they concurred that the benefits outweighed the risk. The legal advisors felt that this was therefore a policy issue that each committee member should address. As a result, the members of HCP Tributary Committees agreed the Plan Species accounts are owned and managed by the HCP Tributary Committees, and the adopted funding policies provide appropriate guidance for entering into contracts with approved project

sponsors. The account-ownership impasse had hindered the progress of the HCP Tributary Committees on funding decisions, and thus, with the timely resolution of the impasse, the HCP Tributary Committees were able to proceed with the funding decisions according to the review schedule that had been announced in March 2005 (see below).

### **2.3.3 General Salmon Habitat Program**

The Tributary Committees established the General Salmon Habitat Program as the principle mechanism for funding projects. The goal of the program is to fund habitat protection and restoration projects that contribute to the rebuilding of the Plan Species. An important aspect of this program is to assist project sponsors in developing practical and effective applications for relatively large projects. Many habitat projects are increasingly complex in nature and require extensive design, permitting, and public participation to be feasible. Often, a reach-level project involves many authorities and addresses more than one habitat factor. To address this, the General Salmon Habitat Program was designed to fund relatively long-term projects. There is no maximum financial request in the General Salmon Habitat Program; the minimum request is \$25,000.

In an effort to coordinate with ongoing funding and implementation programs within the region, the HCP Tributary Committees used the previously-established technical framework and review process for this area, and worked with the other funding programs to identify cost-sharing procedures. The HCP Tributary Committees announced their first requests for project proposals in March 2005, with a due date of September 30, 2005. The HCP Tributary Committees received 29 applications to the General Salmon Habitat Program. Of these applications, 21 projects were cost-shares with state and federal funding sources, and the remaining were stand-alone applications (although some have secured “in-kind” matches through various sources). The geographic breakdown of the applications was as follows: 13 in Wenatchee Subbasin, two in Entiat Subbasin, one on the mainstem Columbia River, eight in Methow Subbasin, and five in Okanogan Subbasin.

The HCP Tributary Committees reviewed the 29 applications received and, after substantial deliberation, agreed to fund nine projects for the amount of \$2,315,004 under

the Wells, Rocky Reach, and Rock Island Plan Species accounts on January 12, 2006, as scheduled (Table 6).

**Table 6**  
**Fund Allocations from the Wells, Rocky Reach, and Rock Island Plan Species Accounts to Projects Submitted for Funding under the General Salmon Habitat Program in 2005**

Account	Project	Amount
Wells	Okanagan River Restoration Initiative-Phase III	\$ 191,038
	Methow Valley Riparian Protection <sup>1</sup>	\$1,177,500
	Total	\$1,368,538
Rocky Reach	Twisp River Conservation Acquisition	\$ 40,000
	Clees Well and Pump	\$ 15,000
	Entiat Engineering and Permitting	\$ 59,375
	Entiat Instream Structures	\$ 37,500
	Total	\$ 151,875
Rock Island	White River Riparian Protection	\$ 686,000
	Nason Creek Channel Migration Zone	\$ 18,787
	Alder Creek Bridge	\$ 89,804
	Total	\$ 794,591
Grand Total		\$2,315,004

<sup>1</sup> Funding of the specific parcels identified in the proposal is dependent on specific negotiations on these items with the project sponsor.

### **2.3.4 Small Projects Program**

The Small Projects Program has an application and review process that increases the likelihood of participation by private stakeholders that typically do not have the resources or expertise to go through an extensive application process. The HCP Tributary Committees encourage small-scale projects by community groups, in cooperation with landowners, to support salmon recovery on private property. Project sponsors may apply for funding at any time, and in most cases, will receive a notification of funding within three months. The maximum contract allowed under the Small Projects Program is \$25,000.

In 2005, the HCP Tributary Committees received six requests for funding under their Small Projects Program, two of which were approved for funding by the Rock Island Tributary Committee; no Small Projects Program funding requests were approved by the Wells HCP Tributary Committee.

### 3 HCP ADMINISTRATION

This section lists events of note that occurred in 2005 related to the administration of the HCPs.

#### 3.1 Mid-Columbia HCP Forum

In March 2005, representatives of the HCP Committees (Coordinating, Hatchery, and Tributary Committees) participated in a Mid-Columbia HCP Forum (Forum). The Forum was designed to be an opportunity for communicating and coordinating with the non-signatories and other interested parties on the implementation of HCP. Current non-signatory parties at the time of the meeting included the Yakama Nation, Confederated Tribes of the Umatilla Reservation, and American Rivers. These parties were invited by letter to review and comment on the agenda and to attend the Forum, in conformity with FERC Order on Rehearing 109 FERC 61208 and in accordance with the offer to non-signatory parties of non-voting membership in HCP Tributary and Hatchery Committee processes. The Forum was held at the Wenatchee Convention Center in Wenatchee, Washington on March 29, 2005 from 9:30 am to 3:00 pm and meeting minutes were prepared (Appendix E).

#### 3.2 Yakama Nation Signing of the HCP

During the preparation for the Mid-Columbia HCP Forum, the Yakama Nation became a signatory party to the HCP (March 9, 2005). The Yakama Nation began participating as a voting member of HCP Coordinating, Hatchery, and Tributary Committees as of the March 2005 meetings.

#### 3.3 HCP Related Reports Published in Calendar Year 2005

The following is a list of reports released in 2005 related to the implementation of the Wells Dam HCP:

- Snow, Charlie. 2005. Annual Progress Report for Wells Hatchery Summer Steelhead, 2002 Brood Year. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. December 2005.
- Columbia Basin Environmental. 2005. Wells Dam Spillway Total Dissolved Gas Evaluation, 23 May to 6 June 2004. Prepared for Public Utility District No. 1 of

- Douglas County, 1151 Valley Mall Parkway, East Wenatchee, WA 98802; Columbia Basin Environmental PO Box 256, The Dalles, OR 97058. December 2004.
- Humling, Michael. 2005. Methow Hatchery 2002 Brood Spring Chinook Salmon Production. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. January 2005.
  - Humling, Michael and Charlie Snow. 2005. Methow Hatchery 2003 Brood Spring Chinook Salmon Production. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. February 2005.
  - Snow, Charlie. 2005. Wells Hatchery 2003 Brood Summer Chinook Salmon Production. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. February 2005.
  - Humling, Michael and Charlie Snow. 2005. Spring Chinook Spawning Ground Survey in the Methow River Basin in 2004. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. February 2005.
  - Townsend, Richard L. and John R. Skalski. 2005. Comparison of Survivals for Spring Chinook Salmon and Steelhead Released from Various Mid-Columbia Hatcheries in 2004. May 2005.
  - Snow, Charlie and Kurt Perry. 2005. Methow River Spring Chinook and Steelhead Smolt Monitoring in 2004. Prepared for Public Utility District No. 1 of Douglas County; Washington Department of Fish and Wildlife, 600 Capitol Way North, Olympia, WA 98501-1091. June 2005.
  - Conceptual Approach to Monitoring and Evaluation for Hatchery Programs Funded by Douglas County Public Utility District. Prepared for Wells Habitat Conservation Plan Hatchery Committee. September 2005.
  - Anchor Environmental, L.L.C. 2006. DRAFT - Review of Management of Bacterial Kidney Disease in the Pacific Northwest. Prepared for Wells, Rocky Reach and Rock Island Habitat Conservation Plans Hatchery Committees and Priest Rapids Coordinating Committee. Anchor Environmental, L.L.C., 1423 Third Avenue, Suite 300, Seattle, WA 98101, March 2006.

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**APPENDIX A**

**HABITAT CONSERVATION PLAN COORDINATING COMMITTEES  
OPERATING PROTOCOLS AND MEETING MINUTES**

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1           **COORDINATING COMMITTEES OPERATING PROCEDURES**  
2                   **WELLS, ROCKY REACH, AND ROCK ISLAND**  
3                   **HABITAT CONSERVATION PLANS**  
4  
5

6           I.        **PURPOSE**

7           The Coordinating Committees to the Wells, Rocky Reach, and Rock Island Projects  
8           Anadromous Fish Agreements and Habitat Conservation Plans (HCPs) are established to  
9           implement the respective Conservation Plans (Plans). The Plans provide for a  
10          “Coordinating Committee composed of one (1) representative of each Party, provided,  
11          that for the Wells Project the Power Purchasers may participate as a non-voting observer  
12          through a single representative, whom they will designate from time to time.”  
13

14          The Coordinating Committees are the primary means of consultation and coordination  
15          between the Chelan County and Douglas County Public Utility Districts (PUDs) and the  
16          Fishery Parties in connection with the conduct of studies and implementation of the  
17          Measures set forth in the Plans and for dispute resolution.  
18

19          These Operating Procedures are intended to provide general guidance to members of the  
20          Coordinating Committees and to help stakeholders understand the functions of the  
21          Committees. It does not supersede any aspects of the Anadromous Fish Agreements and  
22          Habitat Conservation Plans for Wells, Rocky Reach, or Rock Island Hydroelectric  
23          Projects. Readers should refer to those agreements for an understanding of the specific  
24          authority and function of these Committees<sup>1</sup>. These Operating Procedures are subject to  
25          periodic review and revision at the discretion of the Coordinating Committees.  
26

27          II.       **MEMBERSHIP**

28          The Coordinating Committees have one representative of each signatory party to the  
29          Plans. Members of each committee will be required to notify the chair (in written form,  
30          email, or in the previous meeting) of their inability to attend a proposed meeting, and  
31          their alternate voting member, if so chosen. As of June 2005, the Rock Island and Rocky  
32          Reach Committees have the following voting members:

- 33          •     Ritchie Graves, National Marine Fisheries Service
- 34          •     Carmen Andonaegui, Washington Department of Fish and Wildlife
- 35          •     Jerry Marco, Confederated Colville Tribes
- 36          •     Brian Cates, U. S. Fish and Wildlife Service
- 37          •     Shaun Seaman, Chelan County Public Utility District
- 38          •     Steve Parker, Yakama Nation
- 39          •     Michael Schiewe, non-voting chairman.

40  
41          Voting members of the Wells Coordinating Committee are:

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<sup>1</sup> Please refer to Section 7 of the Rocky Reach and Rock Island HCPs for a description of authorities. For the Wells HCP this is found in Section 8.

## *Final Draft (8 August 2005)*

- 1 • Ritchie Graves, National Marine Fisheries Service
- 2 • Carmen Andonaegui, Washington Department of Fish and Wildlife
- 3 • Jerry Marco, Confederated Colville Tribes
- 4 • Brian Cates, U. S. Fish and Wildlife Service
- 5 • Shane Bickford, Douglas County Public Utility District
- 6 • Steve Parker, Yakama Nation
- 7 • Michael Schiewe, non-voting chairman.

8  
9 Technical staffs supporting the signing parties are allowed to participate in Committee  
10 discussions at the discretion of the signing parties.

### 11 12 IV. MEETINGS

13 For purposes of coordination and efficiency, the Committees for each of the HCPs have  
14 agreed to routinely meet together. Regular meetings of the Committees will be from  
15 9:30a to 3:30p on the fourth Tuesday of each month, unless otherwise agreed to by the  
16 Committees. Additionally, the Committees may meet whenever requested by any two  
17 members following a minimum of ten days advance written notice to all members of the  
18 specific Committee.

19  
20 The Committees Chairman will distribute the meeting notice and preliminary agenda ten  
21 days prior to the meeting. The notice and agenda will identify matters to be addressed  
22 and voted on during the meeting, and will be accompanied by a short briefing paper and  
23 Statement of Agreement prepared by any party requesting a Committee decision. A final  
24 agenda will be distributed 5 days prior to the meeting. The agenda will include an  
25 agenda item entitled “other matters” to serve as a placeholder for updates and other issues  
26 that arose too late to be included on the agenda.

27  
28 Within a week after the meeting, the chairman will distribute draft notes of the meeting to  
29 all Committees members. After a one-week review period by Committees members, the  
30 chair will distribute a red-line version of the final meeting notes, based on the comments  
31 and corrections provided by Committees members. Final review and approval of the  
32 meeting notes will occur at the next regularly scheduled Coordinating Committees  
33 meeting.

34  
35 All draft agendas, draft meeting minutes, and supporting documents (i.e., statements of  
36 agreement) will be posted on a secure FTP site that is accessible to Committees members  
37 only. Final agendas, final meeting minutes, and other final supporting documents will be  
38 posted on the respective HCP websites.

### 39 40 V. CHAIRPERSON

41 The Committees shall choose a neutral third party to chair the Committees meetings. The  
42 chair is expected to prepare an annual list of understandings based on the results of  
43 studies, prepare periodic progress reports, prepare meeting minutes, facilitate meetings,  
44 and assist the Committees in making decisions. At least every three years, the  
45 Committees shall evaluate the performance of the chair. The chair shall be the official



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1 contact person of the Committees to stakeholders. In the event the Committees  
2 chairperson is unable to facilitate a scheduled meeting, the HCP Coordinating Committee  
3 chairperson shall designate an alternate.  
4

### 5 VI. DECISION-MAKING

6 The Committees shall act by unanimous vote of those members (or their proxies) present  
7 in person or by phone for the vote. Abstention does not prevent a unanimous vote. If a  
8 member or its designated alternative cannot be present for an agenda item to be voted  
9 upon, the member must notify the chair, who shall delay a vote on an agenda item for up  
10 to five business days on specified issue(s) to be addressed in a meeting, or as otherwise  
11 agreed to by the Committees. A member may invoke this right only once per delayed  
12 item. If the Coordinating Committees cannot reach agreement, then upon request by any  
13 Party that issue shall be referred to Dispute Resolution.  
14

### 15 VII. DISPUTE RESOLUTION

16 As described in the respective HCPs, the Coordinating Committees shall have twenty  
17 days within which to resolve a dispute. If at the end of twenty days there is no resolution  
18 any Party may request that the dispute be elevated to the Policy Committees, which is  
19 composed of a representative of each of the Parties. The Chair of the Coordinating  
20 Committees shall chair all meeting of the Policy Committees. The Policy Committees  
21 shall have thirty days, following the referral, to convene and consider the dispute. The  
22 Chair of the Coordinating Committees shall provide advance written notice of all  
23 meetings. The notice shall contain an agenda of all matters to be addressed and voted on  
24 during the meeting. The Policy Committees shall act by unanimous vote of those  
25 members present in person or by phone. Abstention does not prevent a unanimous vote.  
26 If a Party or its designated alternate cannot be present for an agenda item to be voted  
27 upon it must notify the Chair of the Coordinating Committees who may delay a vote on  
28 the agenda item for up to five-business days. A Party may invoke this right only once per  
29 delayed item. If there is no resolution of a matter following its consideration by the  
30 Policy Committees, then any Party may pursue any other right they might otherwise  
31 have.  
32

33  
34 If the above process results in a settlement of the dispute then: (1) the Parties shall  
35 implement, consistent with the terms of the settlement, all aspects of the settlement that  
36 can lawfully be implemented without FERC approval, or the approval of another Federal  
37 agency; d (2) where FERC or other federal agency approval is needed before some or all  
38 of the settlement can be implemented, all settling Parties shall jointly present the  
39 resolution of the dispute to FERC or the appropriate federal agency for approval.

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Chuck Peven, Carmen Andonaegui, Dick Nason, Ali Wick

**Date:** February 23, 2005

**Re:** Final Minutes of January 25, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Dams Habitat Conservation Plans (HCP) Coordinating Committees met at the Prime Hotel in SeaTac, Washington on January 25, 2005 from 9:30 am to 3:00 pm. Attendees included are listed in Attachment A of these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Mike Schiewe agreed to check into the possibility of Anchor organizing/hosting a website containing Chelan PUD and Douglas PUD HCP documents and information for the Committees and for public use (Item III).
- Mike Schiewe agreed to draft a proposed agenda and speakers list for the Mid-Columbia Forum meeting and to send this to Committees members (Item IV).
- Chuck Peven will revise the subyearling chinook Statement of Agreement and will obtain the Committees approval by email (Item V).
- Chuck Peven and Shane Bickford will work together to add similar language, if possible, to the revised fall-back Statements of Agreement from Chelan PUD and Douglas PUD, and will provide revised Statements of Agreement to the Committees for email approval (Item VIII).
- Chelan PUD will provide its 2005 Spill Plan by or at the next meeting (Item IX).
- By the April meeting, Chelan PUD will prepare a schedule of trunnion bearing replacement and a discussion of whether it will cause any impact to Plan Species (Item X).
- Committees members agreed to submit comments to the Rocky Reach, Rock Island, and Wells Dam Bull Trout Management Plans to their respective PUDs by February 17 (Item XI).

- 
- Bill Tweit agreed to check with Washington Department of Fish and Wildlife's (WDFW's) permitting staff on how the Collectors' Permits address use of longline gear for pikeminnow collection (Item XII).
  - Chelan PUD will provide CDs to the Committees containing 2004 study results, as well as a Statement of Agreement for finalization of the results to be considered at the next meeting (Item XIII).
  - Douglas PUD will update the 2005 Action Plan per comments received at the meeting and will e-mail out the final plan to the Committees for approval at the next meeting (Item XIV).
  - Chelan PUD will finalize its 2005 Action Plan and send to the Committees for the next meeting. (Item XIV).
  - Bill Tweit agreed to check on whether the opinions and procedures reached in the State Auditor Memorandum will work from WDFW's legal perspective (Item XVI).
  - Shane Bickford agreed to re-email the Bull Trout Management Plan and the memo describing discussions with the State Auditor Office to Committees members who may not have received the initial email (Item XI).

## **DECISION POINT SUMMARY**

- Committees members conditionally approved the Statement of Agreement regarding subyearling chinook. Final approval will occur by email (Item V).
- Committees members approved the proposed Statement of Agreement for tagging methods with no amendments (Item VI).
- Committees members approved the proposed Statement of Agreement for Rocky Reach spill operations and the sockeye study with no amendments (Item VII).
- Committees members conditionally approved the Statements of Agreement for Chelan PUD and Douglas PUD fall-back studies. Final approval will occur by email (Item VIII).

## **MEETING MINUTES**

### **I. Welcome and Introductions (Mike Schiewe)**

See Attachment A to these Meeting Minutes for the list of attendees.

Mike Schiewe opened the meeting by asking for approval of the December 13, 2004 Meeting Minutes. There were minor revisions to these Minutes, and the Minutes were approved subject to these changes (Ali Wick will send out final Minutes by email [sent January 27]).

## **II. Tributary and Hatchery Committee Updates (Mike Schiewe)**

Mike Schiewe updated the group about his communications with Bob Bugert regarding the Tributary Committee's progress. The Tributary Committee has adopted the *Upper Columbia Biological Strategy* as the interim technical foundation for funding decisions, and will use the Upper Columbia Regional Technical Team for formal review of proposals. The Tributary Committees are asking the PUDs for review by their respective legal groups, and the Committees plans to adopt these strategy and guidelines at the March meeting.

Mike Schiewe updated the Committees on Hatchery Committee progress. Chelan PUD has completed the Facilities Evaluation Report (prepared with Sapere Consulting). The Hatchery Committee is discussing, among other issues, coho mitigation, the conversion of the Turtle Rock program from subyearling to yearling chinook, the Chelan PUD Monitoring and Evaluation (M&E) Plan (submittal is due June 21), and the Douglas PUD M&E Plan (submittal due after the Chelan M&E Plan submittal).

## **III. HCP Website (Shaun Seaman)**

Shaun Seaman led a discussion on proposed content and users for a potential HCP website containing Chelan PUD and Douglas PUD HCP information. The Committees discussed potential documents to be hosted in separate password-protected and publicly-accessible sections. The password-protected section might contain: calendar, draft items, meeting agendas, meeting minutes, attachments, and Statement of Agreements. The public site might contain: final meeting minutes, final reports, and HCP history documents and filings. The Committees discussed the possibility of Anchor organizing/hosting this service. Mike Schiewe agreed to check into this arrangement.

## **IV. Mid-Columbia Forum (Mike Schiewe)**

Mike Schiewe reminded the Committees that they previously agreed to host a Mid-Columbia Forum several times a year (likely late March and November), and opened the discussion for setting the first meeting date. The meeting date was set for Tuesday, March 29 at the Convention Center in Wenatchee for 5 to 6 hours (times TBA). Meeting topics can be three-fold: 1) fish passage/No Net Impact (NNI); 2) hatchery issues; and 3) tributary issues, to include history, completed studies, plans for the coming year, and agreements made for these topics. Discussions may be hosted by a lead person, supported by a panel of

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Committees members for these topics. Potential invitees may include HCP signatories, HCP non-signatories, PUD commissioners, Washington Department of Ecology, the Northwest Power Planning Council, watershed councils, the Bonneville Power Administration, the U.S. Army Corps of Engineers, the Salmon Recovery Funding Board, and the Upper Columbia Salmon Recovery Board, Technical Recovery Teams, Federal Energy Regulatory Commission, U.S. Forest Service, Okanagan Nation Alliance, the Bureau of Reclamation, and the Nature Conservancy, among others. Mike Schiewe agreed to draft a proposed agenda and speakers list, and to send this to Committees members.

**V. Statement of Agreement: Subyearling Chinook (Chuck Peven)**

Chuck Peven opened this topic of approving a Statement of Agreement regarding Chelan PUD's use of subyearling chinook tagging data. Peven updated the Committees that the U.S. Army Corps of Engineers, Chelan PUD, and others will meet on February 15 to discuss tagging effects on subyearling Chinook in relation to the COE's studies in the lower Columbia and Snake Rivers. The Committees discussed the idea of ongoing Passive Integrated Transponder (PIT)-tagging to get Smolt to Adult Return Rates (SARs) and how this may fit within the framework of the HCPs. Discussions regarding a regional approach are ongoing. Chuck Peven will revise the Statement of Agreement with suggested slight language changes; Committees members conditionally agreed to the Statement of Agreement and will give final approval by email.

**VI. Appropriate Tag Methods (Shaun Seaman and Chuck Peven)**

The proposed Statement of Agreement for tagging methods was approved with no amendments (Attachments B.1 and B.2 to these Meeting Minutes).

**VII. Statement of Agreement: Sockeye Spill (Shaun Seaman)**

The proposed Statement of Agreement for Rocky Reach spill operations and the sockeye study was approved with no amendments (Attachment C to these Meeting Minutes). Additionally, the Committees discussed the fact that the impact of the sockeye study on 2005 survival will not be known until the study is completed. Chelan PUD confirmed that based on sockeye migration data from past years, the PUD expects little, if any, impact to sockeye survival as a result of the spill study. The Committees also recognized that sockeye

outmigrants from the Skaha Lake production program will be passing through the project area for the first time this year.

**VIII. Statement of Agreement—Fall-back (Shane Bickford and Shaun Seaman)**

Shane Bickford and Shaun Seaman led the discussion on approval of the Statement of Agreement on adult fall-back. The Committees discussed adding language that acknowledges the value of additional adult telemetry studies if future operational or hatchery production changes occur. The Committees conditionally agreed to the Statement of Agreement with slight revisions. The Statement of Agreement will be approved by email. Chuck Peven and Shane Bickford will work together to add similar language, if possible, to the revised Statements of Agreement, and will provide the Statements of Agreement to the Committees for email approval.

**IX. Douglas PUD Bypass Operating Plan (Shane Bickford)**

Shane Bickford provided a short history of the Douglas PUD Bypass Operating Plan. He confirmed that the 2005 Bypass Plan is identical to the plan approved for 2004 and 2003 and that the dates of operation proposed in the 2005 Plan are based upon a comprehensive run-timing analysis, provided to both the Wells Coordinating Committee and HCP Coordinating Committee, back in early 2003. The run-timing analysis includes 21-years of run timing information collected at Wells Dam. The District is no longer able to monitor the run in real-time due to limitations in ESA compliant sampling gear. The 2002 migration was the last migration at Wells Dam to be monitoring in real-time. The dates selected by the run-timing analysis were developed to ensure that the bypass operating dates would encompass 95 percent of the run (April 12 to August 26, 2005). Bickford also stated that 2005 is likely to be an unusual water year but thanks to a question by Bob Rose back in 2003, the run-timing analysis also included an analysis of run-timing during low, average and high flow years. The analysis indicates that in low flow years, the spring migrating fish typically arrive at Wells four days later than average (April 16<sup>th</sup>) and that the summer migration ends a couple of days earlier than average. The proposed 2005 Bypass Operating Plan however remains unchanged from previous proposals to ensure coverage for 95% of the run irrespective of how the 2005 water year is shaped by BPA. He verified that spring data typically shows a tight adherence to a certain range of dates and that the Bypass Operating Plan was formulated to take this into account. Bickford agreed to send the 2003

run-timing analysis document to Bill Tweit, Carmen Andonaegui, Mike Schiewe, and Ali Wick, for recordkeeping. Shaun Seaman verified that Chelan PUD would provide its 2005 Spill Plan by or at the next Committees meeting.

**X. Clarify Statement of Agreement—Trunnion Bearing Replacement (Shaun Seaman)**

Shaun Seaman updated the Committees that by the April meeting, Chelan PUD will prepare a schedule of trunnion bearing replacement at Rocky Reach and a discussion of whether it will cause any impact to Plan Species.

**XI. Bull Trout Management Plan (Shaun Seaman and Shane Bickford)**

Shaun Seaman updated the Committees that Chelan PUD has coordinated with the U.S. Fish and Wildlife Service (USFWS) and WDFW to prepare the Bull Trout Management Plan for Rocky Reach. This plan is intended to fulfill the Reasonable and Prudent Measures (RPMs) of the Biological Opinion (BiOp) as well as Protection, Mitigation, and Enhancement (PM&E) needs regarding Federal Energy Regulatory Commission (FERC) licensing. Also, a similar Bull Trout Management Plan was written for Rock Island with the goal of meeting RPM needs only. These plans will be submitted on February 28, to be implemented May 1; Committees members are asked to provide comments to Steve Hemstrom ([steven.hemstrom@chelanpud.org](mailto:steven.hemstrom@chelanpud.org)) by February 17.

Shane Bickford updated the Committees that Douglas PUD has also prepared a Bull Trout Management Plan for Wells Dam; this was sent out to the HCP Committee earlier by email prior to the meeting. Comments are due to Bickford on February 17, with a filing date of February 28. Bickford agreed to re-send this to Committees members who may not have received the initial email.

**XII. Northern Pikeminnow Predation Plan (Shaun Seaman)**

Shaun Seaman updated the Committees that the 2005 pikeminnow removal effort will be conducted at the same level of effort as last year, with three crews angling for one month. Chelan PUD is evaluating a proposal for the use of longline gear for the spring catch. Bill Tweit agreed to check with WDFW's permitting staff to evaluate how the Collectors'

Permits address this. Shaun Seaman noted that Chelan PUD will eventually be looking for agreement from the Committees for the use of this gear if proven successful.

**XIII. 2004 Study Results and 2005 Study Plans (Shaun Seaman)**

Shaun Seaman updated the Committees that the 2004 study results will be finalized and distributed for finalization by March 31. In the future, Chelan PUD intends to provide a complete document (methodologies etc) only once with annual updates showing changes to the original document and the relevant results. The subsequent updates to these documents will be provided as addenda or technical memos referencing the original document. Seaman agreed to provide CDs from Chelan PUD to the Committees containing 2004 results, as well as a Statement of Agreement for finalization of the results to be considered at the next meeting. 2005 Study Plans for sockeye were already addressed under Item VII, above and draft study plans for other species will be provided for approval prior to the March meeting.

**XIV. 2005 Action Plans (Shaun Seaman and Shane Bickford)**

Shane Bickford updated the Committees that Douglas PUD has provided its 2005 Action Plan for Committees review. The Committee members commented that the approval deadline for the Tributary Operating Procedure document should be changed from February 2005 to April 2005. Shane Bickford agreed to make this change and to e-mail the final 2005 Wells Action Plan back to the committee for approval at the February meeting. Once approved, the final Action Plan will be forwarded to the Policy Committee.

Shaun Seaman updated the Committees on Chelan PUD's 2005 Action Plan, with the intention of providing a final plan to the Committees at the next meeting.

**XV. Annual Report Progress (Mike Schiewe)**

Mike Schiewe updated the Committees that the preparation of the Annual Reports is ongoing and clarified that the submittal dates for these is April 15. Shaun Seaman agreed to work with Mike Schiewe to verify who the recipients of the Annual Reports will be.



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**XVI. State Auditor Summary Document (Shane Bickford)**

Shane Bickford updated the Committees that the State Auditor's office had sent a staff person to Douglas PUD to clarify some of the outstanding issues of interest to the Tributaries Committees, including ownership, auditor checks, contracting, expenditures, jurisdiction on accounts, and public works provisions. Bill Tweit agreed to check on whether the opinions and procedures reported in this document will work from WDFW's legal perspective (Attachment D to these Meeting Minutes).

**XVII. Other Issues**

A. 2004 Bypass Report—Shaun Seaman

Shaun Seaman updated the Committees that the 2004 Bypass Report, including results and plans for next year, will be submitted to FERC by February 15.

B. Run-Timing Evaluation

Shaun Seaman updated the Committees that Chelan PUD has provided the Run-Timing Evaluation to the Committees by email. This document will be helpful for the Committee members to review in order to understand the spill plan that will be presented at the next meeting and the application of RealTime at Rocky Reach in 2005.

C. Battelle Report

Shaun Seaman updated the Committees that no more work on the Battelle Report will be done at this time.

D. Study Plan for Biological Evaluation of the Rocky Reach Bypass System - 2005

Shaun Seaman updated the Committees that the Study Plan for the Rocky Reach bypass system has been completed and will be up for approval at the next meeting.

E. Yakama Petition to FERC

Shaun Seaman updated the group that the Yakama Nation has filed a petition to FERC for review of a FERC Order dated November 23, 2004 denying reconsideration of the FERC Order dated July 21, 2004.

F. Next meeting: February 22, 2005 in SeaTac, Washington.

**List of Meeting Minute Attachments:**

Attachment A—List of Attendees

Attachment B.1 and B.2—Approved Statement of Agreement and Decision Tree: Appropriate Tag Methods

Attachment C—Approved Statement of Agreement—Sockeye Spill

Attachment D—State Auditor Memorandum

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**Attachment A: List of Attendees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Jerry Marco *	Colville Tribes
Shane Bickford *	Douglas PUD (by conference call)
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Brian Cates *	USFWS
Ritchie Graves *	NOAA Fisheries
Bill Tweit *	WDFW
Carmen Andonaegui	WDFW
Dick Nason	Dick Nason Consulting

\* Denotes Coordinating Committees member or alternate

**ATTACHMENT B.1**  
**APPROVED STATEMENT OF AGREEMENT**

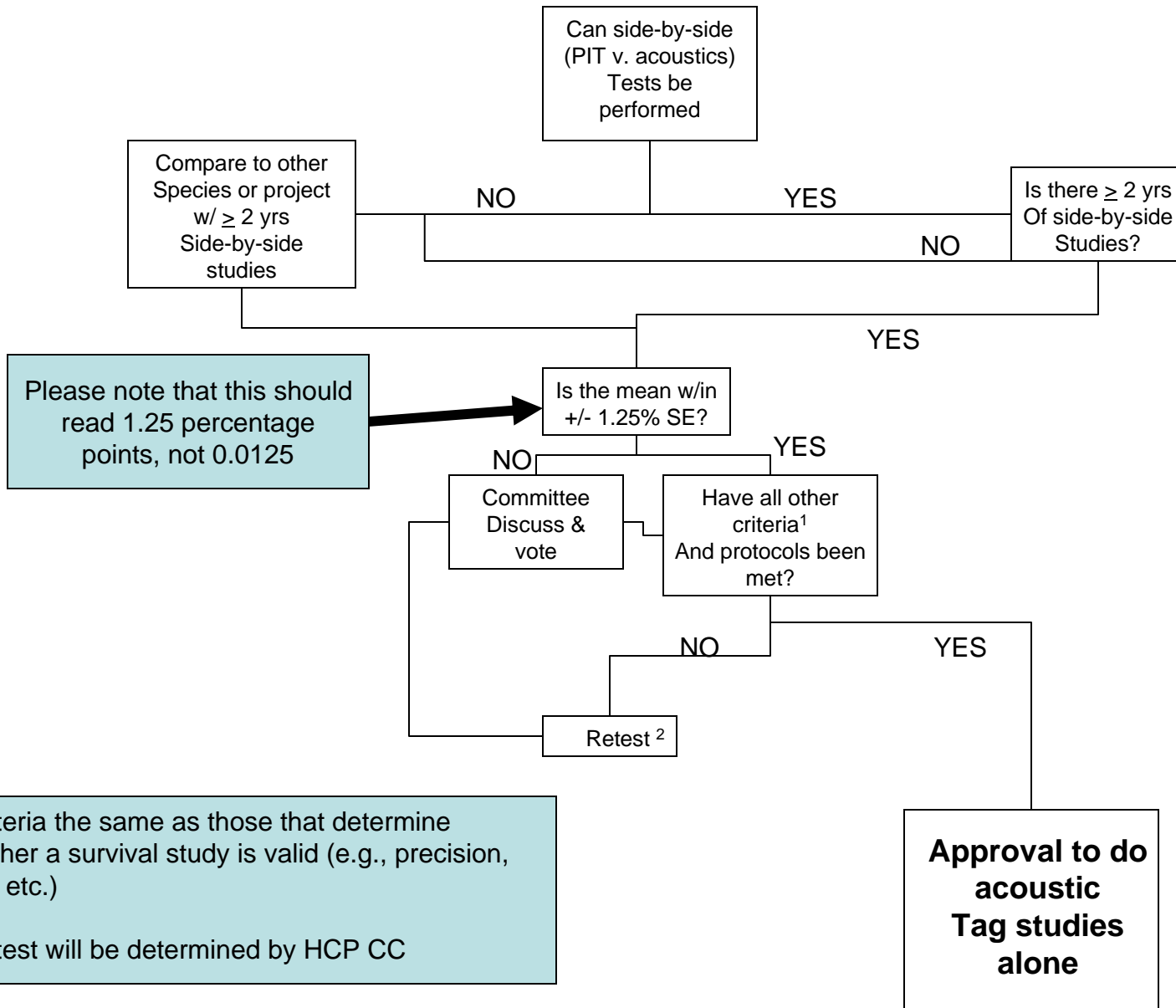
Statement of Agreement for Appropriate Tag Methodology  
January 25<sup>th</sup> HCP CC Meeting

Species	PIT Tag	Acoustic Tag	Justification
Yearling Chinook	N/A	X	Side-by-side PIT vs. acoustic tag studies have met the requirements of the agreed to decision tree. Acoustic tags will be used for all future chinook yearling studies as agreed to by the HCPCC at Rocky Reach and Rock Island dams.
Steelhead	X	X	A PIT vs. acoustic tag study is planned in 2005. The purpose is to provide the HCPCC information to make a decision regarding future acoustic tag only studies. If results comport with the agreed to decision tree, the HCPCC will be asked to decide if acoustic tags can be used in stand-alone survival studies based on one side-by-side study. See 8/4/2003 CC meeting minutes, Section III, end of paragraph 3.
Sockeye	N/A	X	The HCPCC has agreed to the use of acoustic tags for future survival studies. No side-by-side studies are planned for sockeye due to the large sample size required for a PIT tag study.
Subyearling Chinook	N/A	N/A	At this time, future subyearling studies utilizing acoustic tags have been postponed. A tag effects study conducted in 2004 suggests acoustic tags used in 2004 may not be appropriate to measure survival. Approximately 22% of the test fish died over a 21 day period following tagging in the laboratory study.  A PIT tag survival study is not being explored due to the required sample size, and the fact that hatchery fish are not appropriate test subjects since there is a question on their readiness to migrate. Recent Snake River studies also indicate that a portion of the in-river population may over-winter confounding survival results.

\*This statement is based on current technologies and knowledge as of the beginning of 2005.

**ATTACHMENT B.2**  
**DECISION TREE: APPROPRIATE TAG METHODS**

# Decision Tree for Approval of “Stand Alone” Acoustic Tag Survival Studies



**ATTACHMENT C**  
**APPROVED STATEMENT OF AGREEMENT—SOCKEYE SPILL**



**Statement of Agreement – Rocky Reach Spring Spill during Sockeye study  
Rocky Reach HCP Coordinating Committee Meeting  
January 25, 2005**

**Background**

Chelan will be performing a study in 2005 to understand the effects of spill and no spill operations on the behavior of sockeye smolts. During the study period (24 day period), spill on/off periods will be determine based on the agreed to study plan for this species.

**Agreement statement**

For the time period between when an estimated 2.5% of the sockeye run has passed Rocky Reach dam and the first test fish are released in the Wells tail race, spill will be 24% of the daily average river flow and shaped as per the 2005 spill plan.

For the time period between the end of the 24 day study and when the District has determined that the 97.5 percentile of Sockeye smolts have passed Rocky Reach dam, the spill levels will again be 24% of the daily average river flow and shaped as per the 2005 spill plan.

**ATTACHMENT D**  
**STATE AUDITOR MEMORANDUM**

## MEMORANDUM

TO: Wells HCP Coordinating Committee  
Grant PUD

FROM: Shane Bickford

DATE: January 7, 2005

SUBJECT: Summary of Discussions with the State Auditor's Office re: HCP  
committee funding procedures.

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The meeting between Douglas PUD staff and the State Auditor's Office was held on November 13, 2004 at the Douglas PUD Board Room. Individuals present during the meeting included: Scott Renick, State Auditor's Office, SAO; Tamara Kirchner, SAO; Bob Clubb, Douglas PUD; Shane Bickford, Douglas PUD and Wyatt Scheibner, Douglas PUD.

A summary of the pertinent questions answered during the meeting include the follow set of issues.

Q1: Are projects paid in whole or in part from the Plan Species Account (PSA) considered public works?

A1: Scott drew an analogy with the Wenatchee Civic Center, which was not built by the City and was funded with non-City dollars. Since it was built on City-owned land, however, Dept of L&I considered it to be owned by the City and therefore subject to prevailing wage, etc. (Chap 39 RCW public works requirements). The City was required, after the fact, to make additional payments to contractors in order to comply with prevailing wage laws. The point of the analogy was to show that compliance with public works requirements is the responsibility of the owner of the property.

The owner of the property being funded with PSA money has responsibility to comply with public works (such as bidding and prevailing wage) requirements, *if* that owner is subject to the public works requirements. Therefore the only time the District must ensure compliance with public works requirements is when it will own the property being funded with PSA money. For an example we mentioned that the Committee might authorize funding to have a fence built on private land, for the purpose of keeping cattle out of a stream, and simply pay the landowner to build the fence. Scott said there would be no public works issues because the fence wouldn't be owned by the District – it would be owned by the landowner because it would be built on his land. We also asked whether the Committee could authorize payment to a land trust for the purpose of buying land or easements, with the understanding the land or easements would be owned by the trust rather than the District. Scott thought that would be okay under the HCP and that SAO would have no objection.

Q2: Who owns the money in the PSA?

A2: The money in the PSA is no longer District money, because the District can't get it back unless the HCP folds or is dissolved. Consideration, in the form of concessions regarding Wells relicensing and limits on amounts the District must spend on the plan species, has been received in exchange for the District's contribution to the PSA.

Q3: Does the District's Board of Commissions need to directly approve each of the projects selected by the Tributary Committee?

A3: No. As mention above, the money allocated to the PSA is no longer District money. The Tributary Committee has sole responsibility for funding and account allocation decisions, and those decisions can't be overridden by the District Commission. However, because payments from the PSA will be administered through the District's accounting system, the payment vouchers and related warrants will still be subject to the District's standard administrative approval process.

Q4: Does the Open Public Meetings Act apply to meetings of the Tributary Committee?

A4: No, unless a quorum of District Commissioners is present. The HCP gives no indication of a desire for the meetings to be public, and the District's one representative on the Committee doesn't trigger application of the Act.

Q5: Should the funds in the PSA be reported on the District's balance sheet?

A5: No, because they aren't District funds. They should be disclosed in the notes to the financial statements, though. Since Section 7.3.7.2 of the HCP requires the District to annually provide financial reports of PSA activity to the Committee, the District will have to keep an accounting of the PSA. This is a service the District will perform for the Committee. The costs associated with this service could be reimbursed by the PSA as part of the administrative and staffing costs referred to in Section 7.3.7.1.

Q6: Does the Tributary Committee have a financial reporting and/or audit requirement?

A6: No, unless it is specified in the HCP or is required by FERC or some other federal agency. The State Auditor's Office would not audit the Committee or require financial statements from it.

Q7: May the Committee provide funding from the PSA on a "matching" basis, for projects which it approves?

A7: Yes. The guidelines regarding compliance with public works requirements would still apply, depending upon ownership of the property or improvement.

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Chuck Peven, Carmen Andonaegui, Bryan Nordlund, Bob Bugert, Ali Wick, Steve Parker

**Date:** March 30, 2005

**Re:** Final Minutes of February 22, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Dams Habitat Conservation Plans (HCP) Coordinating Committees met at the Prime Hotel in SeaTac, Washington on February 22, 2005 from 9:30 am to 3:00 pm. Attendees are listed in Attachment A of these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick agreed to email out the final Statement of Agreement for the Biological Evaluation of the Rocky Reach Fish Bypass System and the Statement of Agreement for bull trout as amended and approved at the meeting (Item III).
- Mike Schiewe agreed to email out the HCP Tributary Committees draft operating procedures to the Coordinating Committees (Item IV).
- Carmen Andonaegui agreed to check on and continue to update the Coordinating Committees on the status of the Chewuch Trap land access issues (Item IV).
- Ali Wick agreed to email out the final Statement of Agreement for the Chelan Rocky Reach Spring Spill during the sockeye study as amended and approved at the meeting (Item VI).
- Ali Wick agreed to email out the approved Statement of Agreement for Chelan PUD Production fish to the Hatchery Committees [sent Feb. 24, 2005] for their approval (Item VII).
- Chelan and Douglas PUD agreed to confer as to who will handle the dignitary welcome at the March 2005 Mid-Columbia Forum (Item VIII).
- Shaun Seaman agreed to provide the executive summary and results/conclusions sections of the 2004 survival study to the Coordinating Committees for Ali Wick to send out [provided and sent Feb. 24, 2005] (Item IX).

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- Shaun Seaman and Shane Bickford agreed to craft a cover piece for Douglas and Chelan PUD's Action Plans; Ali Wick agreed to distribute to the Policy Committees [crafted and sent Feb. 24, 2005] (Item XI).
  - Mike Schiewe and Ali Wick agreed to send out a cost estimate and scope of work proposal for website development to Shaun Seaman and Shane Bickford (Item XIII).

## **DECISION POINT SUMMARY**

- Coordinating Committees members approved the Statement of Agreement for Douglas PUD Bypass operations for 2005 with no amendments (Item II).
- Coordinating Committees members approved the bull trout amendment to the previously approved Statement of Agreement for Rocky Reach bypass operating plan for 2005, as amended at the meeting (Item III).
- Coordinating Committees members approved the Wells 2005 Action Plan with no amendments (Item V).
- Coordinating Committees members approved the Statement of Agreement for Rocky Reach Spring Spill during the sockeye study for 2005, as amended at the meeting (Item VI).
- Coordinating Committees members conditionally approved the Statement of Agreement regarding Chelan PUD production fish for 2005, subject to a minor change and Hatchery Committees' approval (Item VII).
- Coordinating Committees members approved the Chelan and Douglas PUD Statements of Agreement relating to fallback studies, as amended with a minor change to both at the meeting (Item XII).

## **MEETING MINUTES**

### **I. Welcome and Introductions (Mike Schiewe)**

See Attachment A to these Meeting Minutes for the list of attendees.

Mike Schiewe opened the meeting by asking for approval of the January 25, 2005 Meeting Minutes. There were minor revisions to these Meeting Minutes, and the Minutes were approved subject to these changes (Ali Wick will send out final Minutes by email [sent February 23]).

## **II. Douglas PUD 2005 Bypass Operating Plan (Shane Bickford)**

Shane Bickford introduced this topic, indicating that this item had been up for approval by email previously. Mike Schiewe confirmed with Coordinating Committees members that the proposed Statement of Agreement was approved with no amendments (Attachment B to these Meeting Minutes).

## **III. Rocky Reach 2005 Bypass Operating Plan and Fish Bypass System (Shaun Seaman)**

Shaun Seaman introduced Chelan PUD's proposed Statement of Agreement for the Rocky Reach 2005 bypass operating plan and the proposed bull trout addendum to this Statement. Seaman confirmed that the bull trout addendum is consistent with all current Endangered Species Act (ESA) permits. Coordinating Committees members then approved the Statement of Agreement and the bull trout addendum; the addendum was approved as amended at the meeting. Ali Wick will send out the final approved versions of both Statement (Attachments C.1 and C.2 to these Meeting Minutes).

## **IV. Tributary and Hatchery Committees Updates (Bob Bugert and Mike Schiewe)**

### **Tributary Committees Updates**

Bob Bugert updated the Coordinating Committees that the Tributary Committees had provisionally adopted the Tributary Committees' operating procedures document. The Coordinating Committees should be ready to announce their funding policies document at the upcoming Mid-Columbia Forum and will be ready to accept proposals and applications. Mike Schiewe agreed to email out the Tributary Committees' draft operating procedures to the Coordinating Committees.

### **Hatchery Committees Updates**

Mike Schiewe updated the Coordinating Committees on Hatchery Committees progress, as follows:

- Chelan PUD has prepared its draft Mitigation and Evaluation (M&E) Plan; final comments are due April 6. The Douglas PUD M&E Plan will follow. Both are due in June.
- Washington Department of Fish and Wildlife (WDFW) is preparing its 2005 broodstock collection protocols and will have a draft of these at the next Hatchery meeting.

- Chelan PUD is looking at options to continue the Chiwawa River water study and at options for resolving water source issues at that facility.
- Chelan PUD is preparing a scheduling road map with Sapere Consulting to be used to organize decisions and long-term strategy needs.
- The Hatchery Committees wants to inform the Coordinating Committees of outstanding issues dealing with land access to the Chewuch Trap site and seeks assistance in gaining the necessary paperwork to begin this work. Carmen Andonaegui agreed to check on and continue to update the Coordinating Committees on the status of the Chewuch Trap land access issues.

#### **V. Wells 2005 Action Plan (Shane Bickford)**

Shane Bickford introduced the Wells 2005 Action Plan (with the requested minor change from the last meeting) and confirmed that the dates listed in the Action Plan mesh with the Tributary Committees and the Salmon Recovery Funding Board's (SRFB) current schedule for projects. The Coordinating Committees approved the Action Plan with no amendments (Attachment D to these Meeting Minutes).

#### **VI. Rocky Reach Spill during Sockeye Study (Shaun Seaman)**

Shaun Seaman introduced the Statement of Agreement for Rocky Reach Spill during the Spring 2005 sockeye study. Coordinating Committees members approved the Statement of Agreement subject to a minor change. Ali Wick will send out the final approved version (Attachment E to these Meeting Minutes).

#### **VII. Chelan Production Fish for 2005 (Shaun Seaman)**

Shaun Seaman introduced the Statement of Agreement for the use of production fish for the 2005 Rocky Reach juvenile fish bypass startup and Rock Island balloon tag study. Coordinating Committees members conditionally approved the Statement of Agreement subject to a minor change, and suggested sending it to Hatchery Committees members for further approval. Ali Wick agreed to do this and to send out the final approved version (Attachment F to these Meeting Minutes). In addition, the Coordinating Committees acknowledged that Coordinating Committees business that relates to the Hatchery Committees will be brought up to the Hatchery Committees prior to the Coordinating Committees consideration.



### **VIII. Mid-Columbia Forum Planning (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees on the current planning for the upcoming Mid-Columbia Forum, scheduled for March 29 at the Wenatchee Convention Center in Wenatchee. The outline will include the following:

- Overall welcome (Mike Schiewe)
- Dignitary welcome (Shane Bickford or Shaun Seaman will coordinate welcome)
- History/overview of the HCP (Bob Clubb)
- Hydropower (Ritchie to introduce No Net Impact framework; two 20-minute sections for Chelan and Douglas PUD)
- Hatcheries (Kris Petersen)
- Lunch
- Tributaries (Bob Bugert)

Chelan and Douglas PUD agreed to confer as to who will handle the dignitary welcome. Schiewe confirmed that he plans to send the draft agenda to the HCP non-signatories for review and comment during the first few weeks of March.

Chuck Peven reminded the Coordinating Committees that following the Mid-Columbia Forum, a survival study workshop is being held on Wednesday, March 30 in Portland, Oregon.

### **IX. Chelan PUD Draft Route-Specific Survival Study Plan (RSP Plan) (Shaun Seaman)**

Shaun Seaman introduced the Draft RSP Plan (not for decision at this time), which includes information for yearling chinook, steelhead, sockeye and the plans to release these fish into the Wells tailrace to gather route-specific information for these fish. Seaman agreed to provide the executive summary and results/conclusions sections of the 2004 survival study to the Coordinating Committees. Ali Wick agreed to send out the executive summary and results/conclusions via email. A Statement of Agreement for this RSP Plan will be a decision item in next meeting's agenda.

**X. Chelan PUD Draft 2005 Spill Plan (Steve Hemstrom)**

Steve Hemstrom of Chelan PUD introduced the Chelan PUD Draft 2005 Spill Plan, indicating that it is similar to the 2004 Spill Plan, but also includes procedures for the spill on/off study for sockeye. Hemstrom provided a short summary of the main points of the Draft 2005 Spill Plan, as follows:

- For Rock Island, spill will begin no later than April 17 at 20 percent spill, through spring and summer, to cover 95 percent of the run. To evaluate the spill end date, RealTime and the Coordinating Committees will be consulted.
- For Rocky Reach, there will be no spill for steelhead and yearling chinook; for sockeye, the goal is to begin spill at the 2.5 percent passage point, which should occur around May 6. The study will be started as soon as there are enough fish and will be conducted in 4-day blocks (on -24 percent spill; off – 0 percent spill). Spill will be flat and not shaped during the test, except at the beginning or the end of the study. For subyearling chinook, spill will be shaped from 0 to 95 percent of the run. To evaluate the spill end date, trap data, RealTime, and the Coordinating Committees will be consulted.

**XI. 2005 Action Plans (Shane Bickford and Shaun Seaman)**

Shaun Seaman introduced the Chelan PUD 2005 Action Plan and indicated that it is focused on Committee actions. Shane Bickford briefly mentioned Douglas PUD's Action Plan. The Douglas Action Plan covers actions in the Coordinating, Hatchery and Tributary committees. Shane Bickford and Shaun Seaman agreed to work together to craft an introductory piece for the respective Action Plans. Ali Wick will distribute the Action Plans to the Policy Committees. For Hatchery committee actions, Chelan PUD is working on a road map with Sapere and Shaun Seaman will send it out to the Coordinating Committees (See Item IV).

**XII. Chelan and Douglas PUD Fallback (Shane Bickford and Shaun Seaman)**

Shaun Seaman and Shane Bickford introduced the previously provided Statements of Agreement for fallback studies for Chelan and Douglas PUD and for phase designations for Douglas PUD. The Coordinating Committees approved these Statements of Agreement, as

amended with a minor change to both studies at the meeting. Ali Wick will send out the final version (Appendix G to these Meeting Minutes).

**XIII. HCP Website (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that a cost estimate is being prepared for the HCP website. Mike Schiewe and Ali Wick agreed to send out a cost estimate and proposed scope of work proposal for website development to Shaun Seaman and Shane Bickford.

**XIV. Bull Trout Plans for the HCP Biological Opinion (Shaun Seaman)**

Shaun Seaman updated the Coordinating Committees that Chelan PUD will be sending out bull trout plans for the HCP Biological Opinion to FERC by February 28, with implementation to begin May 1. Shane Bickford indicated that Douglas PUD will also be filing the Wells bull trout monitoring and management plan to FERC by February 28. Implementation of the plans is contingent upon FERC approval.

**XV. Hydro Workshop (Chuck Peven)**

On February 24, the hydro workshop will take place at the Chelan Fire Hall at 6:30 pm. The purpose for this workshop is to provide an overview for the public on the hydropower portion of the four H's (hydropower, harvest, hatcheries, habitat).

**XVI. Ninth Circuit Court Filing (Mike Schiewe)**

Mike Schiewe asked the Coordinating Committees members to confirm that their respective agencies had filed a motion for intervention on this action. All members indicated that it was their understanding that this had been done.

**XVII. HCP Annual Reports (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that the HCP Annual Reports are being reviewed by the PUDs and will be sent to Coordinating Committees members by mid-March for their review.

**XVIII. State Auditor's Office Memorandum Update (Bill Tweit)**

Bill Tweit confirmed that he had checked with Bill Frymire of the Washington Attorney General's Office about the state auditor's office memorandum. Frymire had confirmed that there were no outstanding legal issues with this memorandum for WDFW.

**XIX. Update on Longline Gear for Pikeminnow Control (Bill Tweit)**

Bill Tweit discussed that WDFW may be interested in switching to a contract approach with the PUDs regarding pikeminnow control. Shane Bickford indicated that the current collector's permit for Douglas PUD is valid for approximately one more additional year. Bickford and Tweit indicated that he and the PUD's would work outside the meeting to resolve this issue.

**XIX. Other Issues**

Ritchie Graves indicated that NOAA's National Marine Fisheries Service (NOAA Fisheries Service) is in the process of considering a Terms and Conditions document for Rocky Reach. NOAA Fisheries Service will be inviting public comment by the mandatory condition review process. This document is consistent with HCPs documents as before.

Mike Schiewe updated the Coordinating Committees that the next meeting will be in Wenatchee on March 28, 2005. Also, the May meeting will occur at Rocky Reach Dam.

**List of Meeting Minute Attachments:**

Attachment A – List of Attendees

Attachment B – Approved Douglas PUD Bypass Operating Plan Memo

Attachments C.1 and C.2 – Approved Statement of Agreement and Bull Trout Amendment for Rocky Reach Bypass Operations

Attachment D.1, D.2 – Approved 2005 Wells Action Plan

Attachment E – Approved Statement of Agreement for Rocky Reach Spill during the Spring 2005 Sockeye Study

Attachment F – Conditionally Approved Statement of Agreement for Chelan 2005 Production Fish

Attachment G – Approved Statement of Agreement for Chelan and Douglas PUD Fallback Studies

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**Attachment A: List of Attendees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Jerry Marco *	Colville Tribes
Shane Bickford *	Douglas PUD
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Steve Hemstrom	Chelan PUD
Brian Cates *	USFWS
Ritchie Graves *	NOAA Fisheries Service (by conference call)
Bryan Nordlund	NOAA Fisheries Service
Bill Tweit *	WDFW
Carmen Andonaegui	WDFW
Bob Bugert	Tributary Committee Chair (by conference call)

\* Denotes Coordinating Committees member or alternate

**ATTACHMENT B**  
**APPROVED DOUGLAS PUD BYPASS OPERATING PLAN MEMO**

Commissioners:  
MICHAEL DONEEN  
T. JAMES DAVIS  
LYNN M. HEMINGER



Chief Executive Officer/Manager:  
WILLIAM C. DOBBINS

## Public Utility District No.1 of Douglas County

1151 Valley Mall Parkway • East Wenatchee, Washington 98802-4497 • 509/884-7191 • FAX 509/884-0553

### Memorandum

TO: Wells HCP Coordinating Committee

FROM: Shane Bickford, Douglas PUD

DATE: January 10, 2005

SUBJECT: Proposed 2005 Juvenile Bypass Operating Plan

The 2005 spring outmigration at Wells Dam will consist of both naturally produced and hatchery produced fish spawned in 2003 and 2004. Natural produced fish are the progeny of 4,702 adult spring chinook and 28,977 adult sockeye counted at Wells Dam in 2003. Naturally produced steelhead are predominantly the progeny of 9,478 adult steelhead counted in 2002 (steelhead brood year 2003) and 9,963 adult steelhead counted in 2003 (steelhead brood year 2004).

Scheduled hatchery releases, above Wells Dam, include yearling spring chinook from the Chewuch (128,700), Twisp (160,000) and Methow Acclimation Ponds (205,091), Winthrop National Fish Hatchery (560,000) and from the Colville's Okanogan spring chinook reintroduction program (150,000). Coho will once again be released from the Winthrop National Fish Hatchery (250,000) and summer chinook yearlings will be released from the Carlton (350,000) and Similkameen (578,000) acclimation ponds. Hatchery summer steelhead will be released throughout the Methow and Okanogan rivers. Hatchery steelhead released above Wells Dam originate at the Wells (365,000), Winthrop (110,000) and Omak steelhead programs (13,000). In general, the hatchery yearling chinook and steelhead are scheduled to start on April 15<sup>th</sup> with Winthrop coho scheduled to be released on April 20<sup>th</sup>. By the end of April, all of the chinook and coho will be released. The steelhead releases historically continue into the middle of May with the bulk of the fish being released during the last week of April and the first week of May.

The summer outmigration expected to pass Wells Dam are 100% naturally produced ocean-type summer/fall chinook spawned during brood year 2004. Natural escapement of summer / fall chinook in 2004 was the fourth largest return since dam counts began at Wells Dam with a combined total of 38,624 counted at Wells Dam.

Operation of the bypass system throughout the 2005 season will be guided by the criteria contained within the Wells Dam Juvenile Dam Passage Survival Plan (Wells Juvenile Bypass Plan) found in Section 4.3 of the Wells HCP. One of the main goals of the Wells Juvenile Bypass Plan is to provide bypass operation for at least 95% of the spring and at least 95% of the summer migration of juvenile plan species.

During the last two years, bypass operations have been implemented based upon an analysis of 21 years of hydroacoustic and 14 years of species composition information collected on juvenile run patterns at Wells Dam. Based upon this analysis, Douglas PUD has proposed bypass operating dates broader than those contained within the Wells HCP Agreement. The HCP Agreement originally directed the District to operate the bypass continuously from April 10<sup>th</sup> to August 15<sup>th</sup>.

However, based upon the District's 21-year run-timing analysis, presented and agreed to by both the Wells HCP Committee and the Wells Coordinating Committee in February 2004, initiation of the Wells bypass system on April 12<sup>th</sup> and termination on August 26<sup>th</sup> will conservatively provide bypass operations for 95% of both the spring and summer outmigrations.

Historically, initiation of the bypass system on April 12<sup>th</sup> would provide a non-turbine passage alternative for 95.5% of the spring migration. Similarly, shutting down the bypass system on August 26<sup>th</sup>, on average would provide bypass operation for 95.0% of the summer migration. Similar to the past 6 years and for accounting purposes, the end of the 2005 spring bypass season will be June 13<sup>th</sup> at 2400 hours and the beginning of the summer bypass season will be June 14<sup>th</sup> at 0000 hours.



**ATTACHMENTS C.1 AND C.2  
APPROVED STATEMENT OF AGREEMENT AND BULL TROUT  
AMENDMENT FOR ROCKY REACH BYPASS OPERATIONS**

Statement of Agreement – Study Plan for the Biological Evaluation of the Rocky Reach Fish Bypass System – 2005

**Background**

Chelan PUD will be studying the effects on fish condition for the Rocky Reach fish bypass system in 2005 by looking at fish as they pass through the system. Juvenile salmonids will also be collected for acoustic tag survival studies. Sub-adult bull trout, when encountered will also be tagged. Operation of the bypass system will occur between April 1 and August 31. Sampling will occur on a daily basis, during half hour periods between 8:00 AM and 11:30 AM for a total of up to two sampling hours.

**Agreement**

The study plan, as amended to include language that explains the Chelan's intentions on tagging sub-adult bull trout, is accepted by the HCP Coordinating Committee for the operation and evaluation of the Rocky Reach fish bypass system in 2005.

## **Bull Trout Addendum to Study Plan for the Biological Evaluation of the Rocky Reach Fish Bypass System – 2005**

Juvenile bull trout may enter the Rocky Reach juvenile fish sampling facility during collection of salmon and steelhead for daily species composition and fish condition monitoring. To the extent feasible, Chelan County PUD will document age-group, year-class, length-weight information, and degree and frequency of descaling for all juvenile bull trout that are observed in the sampling facility.

Each bull trout that is captured at the sampling facility will receive a passive integrated transponder (PIT) tag. After tagging, the fish will be held separately from all other species and allowed to recover from the effects of tagging and anesthesia. After recovery, the fish will immediately be returned to the river via the bypass conduit. Using adult fish PIT tag systems in fishways at mid Columbia dams, biologists will be able to monitor the movement of these tagged fish and evaluate their migrational behavior.

**ATTACHMENT D.1, D.2  
APPROVED 2005 WELLS ACTION PLAN**

## **2005 ACTION PLAN WELLS HCP**

### **HCP COORDINATING COMMITTEE**

#### **1. BYPASS OPERATING PLAN**

- a. Draft to Committee: January 10, 2005.
- b. Approval Deadline: March 1, 2005.
- c. Period Covered: April to August 2005.
- d. Report Deadline: October 2005.

#### **2. BULL TROUT MONITORING AND MANAGEMENT PLAN**

- a. Draft to FWS: December 29, 2004.
- b. Approval Deadline: February 28, 2005.
- c. Period Covered: March 2005 to July 2008.
- d. Report Deadline: March 2006, March 2007, March 2008 and December 2008

#### **3. ADULT FALLBACK AND STUDY DECISION**

- a. Draft to Committee: January 7, 2005.
- b. Approval Deadline: March 1, 2005.
- c. Implementation: Contingent upon decision.
- d. Report Deadline: Contingent upon decision.

### **HCP HATCHERY COMMITTEE**

#### **1. 5-YEAR HATCHERY MONITORING AND EVALUATION PLAN**

- a. Draft to Committee: March 2005.
- b. Approval Deadline: May 2005.
- c. Implementation: 2005 to 2010.
- d. Report Deadline: See 2, 3, 4 and 5 (HCP Hatchery Committee section)

#### **2. HCP ANNUAL HATCHERY PRODUCTION COMPLIANCE REPORT**

- a. Period Covered: January 2005 to December 2005.
- b. Draft to Committee: November 2005.
- c. Approval Deadline: December 2005.
- d. Submission Deadline: December 2005.

#### **3. 2005 BROOD STOCK PROTOCOL**

- a. Draft to Committee: February 2005.
- b. Approval Deadline: April 2005.
- c. Implementation: May 2005 to May 2006.

4. 2005 METHOW NATURAL PRODUCTION MONITORING REPORTS
  - a. Period Covered: January 2005 to December 2005.
  - b. Draft to Committee: Three reports per year with various dates.
  - c. Final Reports Due: 60-days after comments received from committee.
  
5. FACILITY MONITORING AND EVALUATION REPORTS
  - a. Period Covered: Linked to Brood Years (Methow FH and Wells FH).
  - b. Draft to Committee: Two reports per year.
  - c. Final Reports Due: 60-days after comments received from committee.
  
6. ANNUAL IMPLEMENTATION REPORT - SOCKEYE FLOW MANAGEMENT
  - a. Period Covered: Linked to Brood Years (incubation through emergence).
  - b. Draft to Committee: One report per year.
  - c. Final Reports Due: 60-days after comments received from committee.

#### **HCP TRIBUTARY COMMITTEE**

1. ANNUAL REPORT - PLAN SPECIES ACCOUNT STATUS
  - a. Draft to Committee: February 2005, February 2006.
  - b. Approval Deadline: March 2005, March 2006.
  - d. Period Covered: August to December 2004, January to December 2005
  
2. OPERATING PROCEDURES AND FUNDING POLICIES
  - a. Draft to Committee: October 2004.
  - b. Approval Deadline: March 2005.
  - c. Period Covered: 2005 - 2013.
  
3. FIRST-ROUND REVIEW AND FUNDING DECISIONS
  - a. RFP: Fall 2005.
  - b. Approval Deadline: January 2006.
  - c. Implementation: 2006-2007.

**ATTACHMENT E**  
**APPROVED STATEMENT OF AGREEMENT FOR ROCKY REACH**  
**SPILL DURING THE SPRING 2005 SOCKEYE STUDY**

**Statement of Agreement – Rocky Reach Spring Spill during Sockeye study  
Rocky Reach HCP Coordinating Committee Meeting  
January 25, 2005**

**Background**

Chelan will be performing a study in 2005 to understand the effects of spill and no spill operations on the behavior of sockeye smolts. During the study period (24 day period), spill on/off periods will be determine based on the agreed to study plan for this species.

**Agreement statement**

For the time period between when an estimated 2.5% of the sockeye run has passed Rocky Reach dam and the first test fish are released in the Wells tail race, spill will be 24% of the daily average river flow as per the 2005 spill plan.

For the time period between the end of the 24 day study and when the District has determined that the 97.5 percentile of Sockeye smolts have passed Rocky Reach dam, the spill levels will again be 24% of the daily average river flow and shaped as per the 2005 spill plan.

During the study “on-spill periods”, spill will remain at a flat 24% to ensure a valid comparison between on and off spill periods.



**ATTACHMENT F**  
**CONDITIONALLY APPROVED STATEMENT OF AGREEMENT**  
**FOR CHELAN 2005 PRODUCTION FISH**

**Statement of Agreement – Use of production fish for Rocky Reach startup and Rock Island balloon tag study.**

**Rocky Reach and Rock Island HCP Coordinating Committee Meeting**

**February 22, 2005**

**Background**

Chelan has a need to acquire 1,800 yearling chinook from the Turtle Rock production program for use in studies and evaluations at Rocky Reach and Rock Island dams. In the past, the yearling chinook have been obtained from the Chelan survival study component. However, in 2005 Chelan will be utilizing steelhead and would therefore need to obtain the yearling chinook from the production program. The stock will be Wells summer Chinook. The program calls for 200,000 with a 10% overage allowed, currently 216,000 fish are on hand. Utilizing 1,800 production fish will not put the program at risk of meeting production goals.

**Agreement Statement**

800 yearling chinook will be used for a March study that will test an over-under spill gate design. The over-gate has been designed to minimize TDG uptake, a balloon tag study has been planned to determine how safe the gate is for fish passage.

1,000 yearling chinook will be used for the start-up tests of the Rocky Reach fish bypass system. Some of these fish will also be used to train staff on PIT and acoustic tagging techniques.

**ATTACHMENT G**  
**APPROVED STATEMENT OF AGREEMENT FOR CHELAN AND**  
**DOUGLAS PUD FALLBACK STUDIES**

WELLS HCP COORDINATING COMMITTEE  
SUMMARY AGREEMENT  
ADULT FALLBACK STUDIES

**BACKGROUND**

The Wells HCP Agreement requires the District to identify adult fallback rates at Wells Dam by the end of Phase I. Phase I officially ended for the Wells Project once FERC approved the HCP Agreement on June 21, 2004.

**Juvenile**

Phase I juvenile project survival studies were completed in 1998, 1999 and 2000 for year yearling chinook and steelhead. Based upon the results of these studies, the District is in Phase III (Standards Achieved) for yearling chinook and steelhead.

Survival studies for subyearling chinook and sockeye have not been completed at Wells Dam. Limitation in tag technology, sample size, in-river fish collection and concerns over tag effects and migration rates (subyearling only) have to date prevented project survival studies from being implemented at Wells Dam. During HCP negotiations, these limitations were discussed at length. The District believes that little has changes since 2002, when the HCP parties agreed that the calculated dam passage survival for subyearling chinook and sockeye is greater than 95% at Wells Dam. Based upon the HCP Survival Study Decision Tree this would put the District in Phase III (Additional Juvenile Studies) for subyearling chinook and sockeye.

**Adult**

Adult telemetry studies have been conducted at Wells in 1992, 1993, 1997, 1998, 1999-2000 and 2001-2002. At the HCP Coordinating Committees request, the results of these studies were summarized and sent out for review (Fallback Summary Table). Follow-up discussions revealed the need to identify not only the rate of fallback but the biological significance of fallback at Wells Dam. To answer this question, Douglas PUD provided the Coordinating Committee with a summary document entitled: "*Fallback Rate and Fate Summary (1992-2002)*". This summary provides the fallback rates and fates for spring, summer/fall chinook, sockeye and steelhead<sup>1</sup>.

Based upon the information collected during these studies, the rate of fallback and missing fish is sufficiently small to conclude that the biological significance of fallback at Wells Dam is insignificant and is less than the 2% adult mortality rates allowed for in the Wells HCP.

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<sup>1</sup> Fallback rates for coho have not been investigated because rigorous telemetry studies are impossible to conduct at this time due to limitation in run size and resultant limitation on the number of fish that can be radio-tagged (averaging less than 150 fish per year). The Yakama Nation has been tagging adult coho sporadically since 2001. In 2002, 14 coho were radio-tagged at Priest Rapids Dam. Only one coho was detected at Wells Dam in 2002. In 2004 the Yakama's tagged 236 adults at Priest Rapids and 23 at Wells Dam. Only one of the coho radio-tagged at Priest Rapids Dam migrated upstream of Wells Dam in 2004. Only one of the 23 coho tagged and released into the forebay at Wells Dam, fell back over the dam. This single fish successfully reascended the dam and was observed entering the Methow River.

## **ADULT FALLBACK - SUMMARY AGREEMENT**

Douglas PUD has provided the Wells HCP Coordinating Committee with adult fallback rate and fate information that demonstrated that Wells Project fallback events likely have no biological significance to adult Plan Species. The Wells HCP Coordinating Committee has concluded, as required at the conclusion of Phase I in the Wells Project HCP, that yearling chinook and steelhead are designated to be in Phase III (Standards Achieved) and that sockeye and subyearling chinook are in Phase III (Additional Juvenile Studies).

The PUD, following agreement of the HCP Coordinating Committee, will test fallback rates on adult plan species should there be a significant change in project operation, the District's hatchery programs or a Mid-Columbia adult telemetry study is planned.

<i>Adult telemetry studies under Phase I of the HCP</i>	<b>Date: December 13, 2004</b>
<b>Statement of Agreement:</b> The signatories of the HCP, represented by the Coordinating Committee, agree that Chelan PUD has met its obligation to measure fall back rates of adults prior to the end of Phase I.	
<b>Background:</b>  The Anadromous Fish Agreement and Habitat Conservation Plans (HCP) for Rocky Reach Hydroelectric Project and Rock Island Hydroelectric Project have been signed by Chelan County PUD, National Oceanographic and Atmospheric Administration (NOAA) Fisheries, United States Fish And Wildlife (USFW), Washington Department of Fish and Wildlife (WDFW), and the Confederated Colville Tribes. These agreements commit Chelan PUD to measure adult salmonid (plan species) fall back rate past Rock Island and Rocky Reach dams prior to the end of Phase I.  Between 1993 and 2003, Chelan funded studies (see attached summaries) that measured passage rates and in some cases final destination of adult salmonids passing Rock Island and Rocky Reach dams. During those studies, fall back rates were estimated for all species. The attached summary describes each study, defines methods and numbers of fish observed at each project, and how many of these fish fell back over the projects.  The PUD, following agreement of the HCP Coordinating Committee, will test fallback rates on adult plan species should there be a significant change in project operation, the District's hatchery programs or a Mid-Columbia adult telemetry study is planned.	

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Chuck Peven, Carmen Andonaegui, Bryan Nordlund, Bob Clubb, Bob Bugert, Dick Nason, Ali Wick

**Date:** April 15, 2005

**Re:** Final Minutes of March 28, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Dams Habitat Conservation Plans (HCP) Coordinating Committees met at Chelan PUD in Wenatchee, Washington on March 30, 2005 from 11:00 am to 2:00 pm. Attendees are listed in Attachment A of these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Shaun Seaman agreed to coordinate with Andrew Grassell and Chuck Peven to provide Ali Wick with language to complete a few sections of the HCP Annual Reports (Item IV).
- Ritchie Graves agreed to provide several tables and his detailed comments to Ali Wick for the HCP Annual Reports (Item IV).
- Ali Wick agreed to send out the approved Statements of Agreement as approved at the meeting (Items V, VI, VII, and VIII). The Statements of Agreement are attached to these Meeting Minutes as Appendix B through Appendix E.
- Shaun Seaman agreed to provide Paul Fielder's and Todd West's contact information to Tara Zimmerman (USFWS) for the avian predator count permits (Item X).

### **DECISION SUMMARY**

- Coordinating Committees members agreed that Chelan PUD's Phase III status is "Standards Achieved" for spring chinook salmon at Rock Island Dam, and the proposed Statement of Agreement was approved, as amended during the meeting (Item V).

- Coordinating Committees members approved the Statement of Agreement for the Chelan PUD Spill Plan with no amendments (Item VI).
- Coordinating Committees members approved the Statement of Agreement for the Chelan PUD 2004 Survival Study Report with no amendments (Item VII).
- Coordinating Committees members approved the Statement of Agreement for the Chelan PUD 2005 Survival Study Plans with no amendments (Item VIII).

## **MEETING MINUTES**

### **I. Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the February 22, 2005 Meeting Minutes. There were minor revisions to these Meeting Minutes, and they were approved subject to these changes (Ali Wick sent out the final Meeting Minutes by email on March 30). See Attachment A to these Meeting Minutes for the list of attendees.

### **II. Updates: Hatchery and Tributary Committees (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees on the status of the Hatchery Committees. The Hatchery Committees current progress includes the following:

- Development of 2005 broodstock collection protocols
- Finalization of Douglas and Chelan PUD Monitoring and Evaluation (M&E) Plans
- Investigation of the water supply options for Chiwawa Ponds
- Discussion and production of Chelan PUD's decision calendar/road map
- Consideration of Chelan PUD's reduction of spring Chinook at Chiwawa Ponds; Kris Petersen is convening a subgroup to coordinate co-manager recommendations
- The Chewuch Trap permit is in process
- The Twisp weir was installed on Saturday, March 26

Schiewe updated the Coordinating Committees that the Tributary Committees has finalized its documents for funding procedures and species accounts. Bob Bugert will present these in detail at the Mid-Columbia Forum on March 29.

### **III. Mid-Columbia Forum Presentations (Mike Schiewe)**

Mike Schiewe confirmed with the Mid-Columbia Forum presenters that all was in order for their upcoming presentations. Presenters had no concerns about this.



**IV. HCP Annual Reports (Mike Schiewe)**

Mike Schiewe asked for comments or additions to the HCP Annual Reports. Ritchie Graves indicated that he had prepared two summary tables—one on Phase Designation and one that describes adult conversion values from McNary Dam to Wells Dam. Ali Wick confirmed with Coordinating Committees members that each member would receive a CD of the report(s) and that she would coordinate with the PUDs for FERC filing and hard copy distribution. Shaun Seaman agreed to coordinate with Andrew Grassell and Chuck Peven to provide Ali Wick with language to complete a few sections of the reports. Ritchie Graves agreed to provide several tables and his detailed comments to Ali Wick for the reports.

**V. Chelan PUD Phase Designation (Shaun Seaman)**

Shaun Seaman introduced this topic, indicating that the Phase Designation (Phase III for yearling Chinook at Rock Island) had been discussed previously, but it had not been formally agreed that the status was Phase III “Standards Achieved.” Coordinating Committees members agreed that the Phase III status was Standards Achieved and the proposed Statement of Agreement was approved, as amended during the meeting (Attachment B to these Meeting Minutes).

**VI. Chelan PUD Spill Plan (Shaun Seaman)**

Shaun Seaman introduced Chelan PUD’s proposed Spill Plan Statement of Agreement. Coordinating Committees members approved the Statement of Agreement with no amendments (Attachment C to these Meeting Minutes).

**VII. Chelan PUD 2004 Survival Study Report (Shaun Seaman)**

Shaun Seaman introduced Chelan PUD’s proposed Statement of Agreement for the 2004 Survival Study Report. Coordinating Committees members approved the Statement of Agreement with no amendments (Attachment D to these Meeting Minutes).

**VIII. Chelan PUD 2005 Survival Study Plans (Shaun Seaman)**

Shaun Seaman introduced Chelan PUD’s proposed Statement of Agreement for the 2005 Survival Study Plans. Coordinating Committees members approved the Statement of Agreement with no amendments (Attachment E to these Meeting Minutes).

**IX. Columbia River Flows and Potential Study Impacts (Shaun Seaman)**

Shaun Seaman introduced Columbia River Flows and Potential Study Impacts, indicating that Chelan PUD will be gathering useful information in the studies conducted during this flow year, even though flow level will be lower than usual. Ritchie Graves commented that the current estimation is that flow will be just high enough to meet flow targets for spring study fish, but meeting flow targets for summer fish may not be as certain. This will not present a problem for the planned 2005 studies because summer fish are not survival study fish.

**X. Other Items**

The following items were discussed at the end of the meeting:

- Gate Operating Sequence at Rock Island: Chuck Peven described the proposed gate operating sequence at Rock Island. Chelan PUD proposes to make some changes in the order of gate use. Peven confirmed that during the survival study, it will be possible to separate fish passage effects through left bank versus right bank with this new spill pattern.
- Trunnion Bearing Memorandum: Shaun Seaman described this Chelan PUD memorandum and wanted to confirm with the Coordinating Committees that Chelan PUD does not expect that the trunnion bearing work would interfere with migration studies. Coordinating Committees members indicated that they had no concerns with the memorandum.
- Yakama Nation HCP Signing: Mike Schiewe distributed a letter provided to him by Bob Clubb. The letter was from Tim Weaver, attorney for the Yakama Nation, and contained the signature page, which indicated that the Yakama Nation had formally signed onto the Wells HCP. Schiewe indicated that the Coordinating Committees could expect the signature pages from the Yakama Nation for the Rock Island and Rocky Reach HCPs soon as well.
- Spill at Rock Island: Shaun Seaman updated the Coordinating Committees that spring spill will begin at Rock Island no later than April 17; the bypass trap is staffed as of April 1.
- Columbia River Pikeminnow Control Program: Shaun Seaman updated the Coordinating Committees that the pikeminnow control program is going well at

Rocky Reach and Chelan PUD is considering increasing fishing by one additional month. There has been very minimal bycatch.

- Avian Predator Count: Ritchie Graves updated the Coordinating Committees that Tara Zimmerman from the U.S. Fish and Wildlife Service (USFWS) Portland office had contacted him regarding permits for this work. He indicated that the U.S. Army Corps of Engineers is dropping lethal control of birds from its permit application except for balloon tag studies. Zimmerman needs a few bird reports to complete the permits. Shaun Seaman responded that Paul Fielder and Todd West are working with the University of Washington on this issue and Shaun agreed to provide Zimmerman with their contact information.
- Sockeye for Skaha Program: Chuck Peven agreed to provide Carmen Andonaegui with a summary of the program for Carmen's discussion with Bill Tweit. This will be a topic at the next meeting.
- Meetings will continue through the summer vacation season on the usual schedule. All are asked to provide alternates where necessary; Mike Schiewe and Ali Wick will continue to coordinate and facilitate support for the meetings.
- Next Meeting: Mike Schiewe updated the Coordinating Committees that the next meeting will be in SeaTac, Washington on April 26, 2005.

**List of Meeting Minute Attachments:**

Attachment A—List of Attendees

Attachment B—Approved Statement of Agreement for Chelan PUD Phase Designation

Attachment C—Approved Statement of Agreement for Chelan PUD Spill Plan

Attachment D—Approved Statement of Agreement for Chelan PUD 2004 Survival Study Report

Attachment E—Approved Statement of Agreement for Chelan PUD 2005 Survival Study Plans

### Attachment A: List of Attendees

Name	Organization
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Jerry Marco *	Colville Tribes
Shane Bickford *	Douglas PUD
Bob Clubb	Douglas PUD
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Brian Cates *	USFWS
Ritchie Graves *	NOAA Fisheries Service
Bill Tweit *	WDFW
Carmen Andonaegui	WDFW
Dick Nason	DNC

\* Denotes Coordinating Committees member or alternate

**ATTACHMENT B**  
**APPROVED STATEMENT OF AGREEMENT FOR CHELAN PUD**  
**PHASE DESIGNATION**

## **Phase Designation for Yearling Chinook at Rock Island Dam**

### **Background**

Between 2002 and 2004, the District conducted studies on yearling Chinook to estimate Project survival. The average for the three years for either PIT or acoustic tags exceeded the 93% standard required in the HCP.

### **Agreement**

Because the District exceeded the Juvenile Project Survival Standard (93%) from the HCP, we agree that, for yearling Chinook, the District is in Phase III (Standards Achieved) for this species at Rock Island (3-year average survival = 93.4% for yearling chinook).

**ATTACHMENT C  
APPROVED STATEMENT OF AGREEMENT FOR CHELAN PUD  
SPILL PLAN**

**Statement of Agreement –Approval of the 2005 Rocky Reach and Rock Island Spill Plan  
Rocky Reach and Rock Island HCP Coordinating Committee Meeting  
March 28, 2005**

**Background**

In accordance with the HCP, Chelan has prepared a spill plan for operations of fish spill for the 2005 juvenile migration period to be conducted at Rocky Reach and Rock Island dams. This plan includes the details of the Rocky Reach index sampling, the Spill/No-spill study during the sockeye migration and general operations of spill programs at both Rocky Reach and Rock Island. This plan was provided to the Coordinating Committee members at the February 2005 meeting of the Coordinating Committee.

**Agreement Statement**

The 2005 spill plan prepared by Chelan County PUD meets the objectives of the HCP and is approved by the HCPCC for implementation in 2005.



**ATTACHMENT D**  
**APPROVED STATEMENT OF AGREEMENT FOR CHELAN PUD**  
**2004 SURVIVAL STUDY REPORT**

**Statement of Agreement –Approval of the 2004 Rocky Reach and Rock Island Survival Results Report**  
**Rocky Reach and Rock Island HCP Coordinating Committee Meeting**  
**March 28, 2005**

**Background**

In accordance with the HCP, Chelan performed survival studies at Rocky Reach and Rock Island on all Plan species in 2004. Hydroacoustic Technology Inc. (HTI) and Columbia Basin Research have prepared a draft final report on the findings from the studies. The report presents the methods, survival estimates, standard errors, and conclusions for the 2004 survival studies at Rocky Reach and Rock Island dams.

**Agreement Statement**

The survival estimates and the standard errors reported by HTI and Columbia Basin Research for the 2004 survival studies at Rocky Reach and Rock Island dams are accepted by the HCPCC.

**ATTACHMENT E**  
**APPROVED STATEMENT OF AGREEMENT FOR CHELAN PUD**  
**2005 SURVIVAL STUDY PLANS**

**Statement of Agreement –Approval of the 2005 Rocky Reach and Rock Island Survival Study Plans  
Rocky Reach and Rock Island HCP Coordinating Committee Meeting  
March 28, 2005**

**Background**

In accordance with the HCP, Chelan has planned for survival studies to be conducted at Rocky Reach and Rock Island. Hydroacoustic Technology Inc. (HTI) has prepared a study plan to measure project survival at Rocky Reach and Rock Island that incorporates the use of PIT and acoustic tags for steelhead, and acoustic tags only for sockeye and yearling chinook. These plans have been designed to meet the objectives and the statistical precision required by HCP. Dr. John Skalski of Columbia Basin Research has provided a plan for the statistical analysis of the study data. This plan has been provided to the Coordinating Committee members

**Agreement Statement**

The survival study plan prepared by HTI and the statistical analysis plan provided by Columbia Basin Research meets the objectives of the HCP and are approved by the HCPCC for implementation in 2005.



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Seattle, Washington 98101  
Phone 206.287.9130  
Fax 206.287.9131

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Chuck Peven, Rick Klinge, Dick Nason, Ali Wick, Carmen Andonaegui, Bryan Nordlund, Steve Parker, Bob Rose

**Date:** May 26, 2005

**Re:** Final Minutes of April 26, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans (HCP) Coordinating Committees met at the Prime Hotel in SeaTac, Washington on April 26, 2005 from 9:30 am to 1:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick agreed to send out the Annual Reports to Bob Rose and Steve Parker, as well as the link to the Anchor Environmental (Anchor) FTP site [sent on April 28] (Item III).
- Carmen Andonaegui agreed to follow through and update the Coordinating Committees on Washington Department of Fish and Wildlife's (WDFW's) position on potential future Rocky Reach smolt collection for Okanagan Nation Alliance (ONA) program purposes, in case this issue resurfaces in 2006 (Item VI).
- Rick Klinge will send Nanaimo Department of Fisheries and Oceans' (DFO) sockeye study plans to Ali Wick; Wick will post the reports onto the Anchor FTP site upon receipt for the group to access. Shaun Seaman may have some information as well and will forward this to Ali Wick (Item VI).
- Shaun Seaman agreed to provide details on the upcoming Avian Predation Workshop to Ali Wick for posting onto the Anchor FTP site for the group to access (Item VII).
- Shaun Seaman will follow up with Steve Parker on any clarifications that are needed regarding the Skaha sockeye program and other issues (Item VII).

### **DECISION SUMMARY**

There were no decision items at this meeting.

## **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the March Meeting Minutes. The Meeting Minutes were approved with minor amendments (Ali Wick will send out final Meeting Minutes by email [sent on April 20]). See Attachment A to these Meeting Minutes for the list of attendees.

## **II Update: Yakama Nation Signing the HCPs (Mike Schiewe)**

Steve Parker updated the Coordinating Committees that Yakama Nation (YN) Tribal Chairman Meninick had signed the Rock Island and Rocky Reach HCPs, and that the signature pages will be returned to Mike Schiewe by the end of the week. In addition, an Executive Group/Policy Committee meeting is planned during the second or fourth weeks of May to review progress on implementation of the HCPs and to welcome the YN as a signatory. Steve Parker updated the group that the YN was in the process of dropping its 9<sup>th</sup> Circuit Court appeal of the Federal Energy Regulatory Commission (FERC) ruling. Schiewe reminded the YN of the need to designate Coordinating Committees members and alternates for each of the HCP Committees.

## **III Update: Annual Reports and FERC Filing (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that these reports have been filed and thanked all who helped in this effort. Schiewe updated the group that he heard from Shane Bickford that Douglas PUD might like to file these by March 30 in future years. Ali Wick agreed to send out the Annual Reports to Bob Rose and Steve Parker, as well as the link to the Anchor FTP site. Shaun Seaman noted that since the final reports from the previous year are not due until March 31<sup>st</sup>, it may be difficult to meet this date each year.

## **IV Update: Tributary and Hatchery Committees (Mike Schiewe)**

### *Tributary Committees:*

Mike Schiewe updated the Coordinating Committees that the Tributary Committees have not met since the Mid-Columbia Forum, and that everyone is as up to date as possible at this time. Bryan Nordlund commented that he had seen Bob Bugert make a presentation on the Tributary Committees program at the Bureau of Reclamation meeting last week.

*Hatchery Committees:*

- Bob Rose asked the Coordinating Committees whether and how the Priest Rapids Coordinating Committee is coordinating with them; Mike Schiewe responded that there is a Grant PUD representative that attends the Hatchery Committees meetings as a non-voting member.
- Schiewe updated the group that the Hatchery Committees are preparing the broodstock collection protocols for 2005; low returns based on spring Chinook counts at Bonneville Dam are not reflected in this document as of yet. At this time, there is a conference call scheduled for April 29 at 2 pm to discuss the approval of the protocols and how these returns may affect the protocols.
- The subcommittee on Chiwawa River is working on water source issues and is keeping the Hatchery Committees updated on their progress.
- The draft Chelan PUD Monitoring and Evaluation (M&E) Plan is currently out for comment by a wider audience; it will be finalized by June 21. The draft Douglas M&E Plan is out for review at this time and is operating under the same timeframe.
- Chelan PUD suggested that the Hatchery Committees send a letter to Senator Linda Evans Parlette regarding the Turtle Rock subyearling conversion. Mike Schiewe asked for Steve Parker's input on the discussions, and Parker asked whether the plan was for a partial or total conversion as discussed in the U.S. v. Oregon Management Agreement. Schiewe confirmed that the current plan was always discussed as a total conversion of the program (and not a partial conversion). Shaun Seaman verified this and commented that relocating the program will meet dual goals of improving the facilities, as well as meeting the goals of the Biological Assessment Management Plan (BAMP). Chuck Peven explained that Chelan PUD is proposing to expedite this process because Senator Parlette would like to provide funding for the conversion, and a decision needs to be made by the Chelan PUD Board by June 30. Peven and Seaman indicated that they would be in touch with Steve Parker to update him on the technical issues; Schiewe suggested that Parker be in touch with Kirk Truscott of WDFW, as well. The conversion

will be up for approval at the next Hatchery Committees meeting on May 18; and a conference call is scheduled to discuss this further.

- Chelan PUD discussed the proposed strategies for rearing fish with high levels of risk for Bacterial Kidney Disease at Chiwawa Ponds in light of potential reduced production levels and the availability of only one pond to rear these fish. There are several options being discussed in the Hatchery Committees at this time.
- The draft Section 10 permit (Permit 1196) is under development; the timeline for completion is 2006.

#### **V        Debrief: Mid-Columbia Forum (Mike Schiewe)**

Mike Schiewe thanked Coordinating Committees members who gave presentations at the Mid-Columbia Forum (Forum) and indicated that subsequent sessions will likely be more interactive in nature. Schiewe asked for comments and feedback on the next Forum, and mentioned that the Hatchery Committees had one suggestion that the Forum could be divided into two sessions: 1) Tributary issues, and 2) other issues.

Dick Nason commented that attendees at the Forum included several local county officials. Brian Cates commented that the season's results and progress will be interesting aspects for discussion at the next meeting. Carmen Andonaegui suggested broadening the focus to include information about regional recovery efforts, as well as the implementation of the HCPs. Dick Nason commented that there may be increased attendance at the next meeting due to the Tributary Committees funding opportunities. Bob Rose suggested involving other regional entities, including Water Resource Inventory Areas (WRIAs [e.g., Wenatchee, Entiat]) groups and the Upper Columbia Salmon Recovery Board. He suggested that coordination with these entities would be extremely valuable, and that the HCP Committees support and leadership would be instrumental in setting a structure for adaptive management in the Upper Columbia River. Shaun Seaman indicated that there is ongoing communication with these groups, but that more outreach could be coordinated for the meetings. Mike Schiewe asked Bob Rose if he was suggesting that the Forum serve a greater role in regional planning and coordination; Rose responded that that was his thinking. Jerry Marco commented that the Colville Tribes see the need for better outreach



for habitat issues, particularly with the watershed groups, and less outreach for involvement in the hatchery issues.

## **VI Sockeye for Skaha Program (Chuck Peven and Carmen Andonaegui)**

Chuck Peven updated the Coordinating Committees that the ONA will collect smolts in Canada this year for supplementing life-history data from their program. Carmen Andonaegui commented that WDFW had initially begun looking at smolt collection at Rocky Reach for gathering these data, but that this issue became a moot point because of ONA's decision to collect fish in British Columbia. Andonaegui agreed to follow through and update the Coordinating Committees on WDFW's position on potential future Rocky Reach smolt collection for ONA program purposes, in case this issue resurfaces in 2006. Rick Klinge described a sockeye study plan by Paul Rankin and Kim Hyatt at the DFO office, which briefly describes the process that ONA is proposing to follow; Ali Wick will post these onto the Anchor FTP site upon receipt for the group to access. Shaun Seaman may have some information as well and will forward this to Ali Wick.

## **VII Other Items (Mike Schiewe)**

### *A. Spill at Rocky Reach (Shaun Seaman)*

Shaun Seaman updated the Coordinating Committees that spill at Rock Island has been initiated as of midnight on April 17 in accordance with the HCP.

### *B. Pikeminnow Predation (Shaun Seaman)*

Shaun Seaman updated the Coordinating Committees that pike minnow removal has been very successful, and that it has been extended several weeks at Rocky Reach. As of April 25<sup>th</sup>, over 14,000 pike minnow have been removed from the reservoir.

### *C. Avian Predation Workshop in May (Shaun Seaman )*

Shaun Seaman updated the Coordinating Committees that there is an Avian Predation Workshop sponsored by the U.S. Army Corps of Engineers on May 25 in the Tri-Cities. Seaman agreed to provide details to Ali Wick for posting on the Anchor FTP site for the group to access.

### *D. Lake Osoyoos Meeting (Rick Klinge)*

Rick Klinge updated the group that there is an upcoming biannual meeting at the Oroville Tonasket Irrigation Offices in Oroville, Washington to discuss water releases and impacts to water management. This meeting will be held on Thursday, May 18 from 10:30 am to 12:00 pm.

E. *Skaha Fishery Implications (Steve Parker)*

Steve Parker commented that the YN is interested in the fishery management implications of the Skaha sockeye program and that the Coordinating Committees may be hearing more from the YN on this issue. Shaun Seaman indicated that Chelan PUD will follow up with Parker on any clarifications that are needed for this program.

F. *All-H Analyzer (Bob Rose)*

Bob Rose updated the Coordinating Committees that more funding has been provided by the Northwest Power Planning Council for the All-H Analyzer, and that the YN has provided information to WDFW for this model. The YN is holding a workshop during the week of May 23 that will demonstrate the model with data from the Yakama Basin. The Upper Columbia Basin group and WDFW are planning a workshop on May 9 through 10, as well (Wenatchee WDFW office; 9 am to 3 pm both days). There is also an Upper Columbia Recovery Board meeting this week to discuss this.

G. *Next Meeting*

The next meeting will be held Wednesday, May 24, 2005 at Rocky Reach Dam beginning at 9 am. It will start with a tour of the Dam (1.5 to 2 hours) and will conclude with a meeting, which will start at 11 am.

## **List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Dick Nason	DNC
Rick Klinge	Douglas PUD
Bryan Nordlund	NMFS
Brian Cates *	USFWS
Carmen Andonaegui	WDFW
Steve Parker	Yakama Nation (by conference call)
Bob Rose	Yakama Nation

\* Denotes Coordinating Committees member



Anchor Environmental, L.L.C.  
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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Rick Klinge, Bryan Nordlund, Carmen Andonaegui.

**Date:** July 1, 2005

**Re:** Final Minutes of May 24, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Rocky Reach Hydroelectric Project north of Wenatchee, Washington on May 24, 2005 from 9:00 am to 2:00 pm. The day began with a tour of the Rocky Reach Dam and fish facilities beginning at 9:00 am and concluded with a Coordinating Committees meeting. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- A Coordinating Committees conference call will be initiated after June 10 to discuss completion of spring spill for juvenile sockeye passage at Rocky Reach Dam (Item VIII).
- Jerry Marco agreed to provide information on the May 9 through May 10 All-H Analyzer workshop to Ali Wick for dissemination to the Coordinating Committees (Item VII).
- Coordinating Committees members agreed to provide comments on their operating protocols to Mike Schiewe by June 15 (Item VIII).
- Chelan PUD (Shaun Seaman and Thad Mosey) will provide a schedule and background material (including pictures) for a decision regarding the removal of the cruciform structure from the juvenile fish bypass system at Rocky Reach Dam (Item VIII).
- Bryan Nordlund agreed to coordinate with Thad Mosey to further discuss the cruciform structure (Item VIII).
- Chelan PUD (Thad Mosey and Lowell Rainey) agreed to provide an annotated bibliography or summary of relevant telemetry data and a proposal for potential orifice gate (OG) operation modifications before the next meeting (Item VIII).

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**DECISION ITEM SUMMARY**

- The Coordinating Committees concurred with Washington Department of Fish and Wildlife's (WDFW's) decision to approve collection of sockeye salmon smolts at Rocky Reach Dam. The purpose of the sampling is to better understand the biology and life histories of stocks originating upstream (Item VI).

**I Tour of Dam Facilities (9:00 am – 12:00 pm)****II Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the April Meeting Minutes. The Meeting Minutes were approved with no amendments. (Ali Wick will send out final Meeting Minutes by email [sent May 26, 2005]). See Attachment A for the list of attendees.

**III Tributary and Hatchery Committees Update (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that the Tributary Committees have been working to encourage the development of potential tributary habitat projects by various interested parties. Bob Bugert will be discussing permitting issues with the attendees at the upcoming Policy Committees meeting this week on May 27 [this meeting was subsequently cancelled].

The following items are currently being addressed in the Hatchery Committees:

- Discussions are ongoing regarding WDFW's broodstock collection protocols, as the estimates of returning adults to Bonneville Dam have been revised several times. There will be additional conference calls to address these protocols.
- Discussions are ongoing regarding the relocation and conversion of the subyearling program at Turtle Rock to a yearling program at Chelan Falls.
- Discussions are ongoing regarding the collection of hatchery- and natural-origin fish collected at Tumwater Dam; conference calls will address these concerns as needed.
- Monitoring and Evaluation (M&E) Plans for Chelan and Douglas PUD are being edited in response to comments, and are expected to be completed by June 21. These M&E Plans are currently undergoing broader review; comments will be addressed at the next Hatchery Committees.
- Discussions are ongoing regarding the handling and disposition of high Enzyme-Linked Immunosorbent Assay (ELISA) fish in the hatchery rearing programs.

- Discussions are ongoing regarding the Chiwawa water supply concerns; Chelan PUD is in the process of investigating water supply solutions at the site.
- The Yakama Nation raised the issue of determining whether a viable natural or hatchery population of coho salmon exists above Rock Island Dam. The Rock Island HCP requires that this determination is made during 2005. The need for criteria is under discussion.
- Deana Machin and Howie Wright of the Okanagan Nation Alliance (ONA) will be in attendance at the next Hatchery Committees meeting to discuss the Skaha sockeye program. The Hatchery Committees will discuss whether this program will satisfy sockeye mitigation obligations.

#### **IV Executive Group/Policy Meeting Scheduled (Mike Schiewe)**

Mike Schiewe updated the group that the Executive Group/Policy Meeting is scheduled for Friday, May 27 in SeaTac from 9:30 am to 12:00 pm. Mike Schiewe has provided an agenda to the attendees. One slated agenda item is discussing whether or not the Policy Committees should send a proposed letter to Senator Linda Evans Parlette. [Note: This meeting was subsequently cancelled.]

#### **V Total Dissolved Gas Study at Wells Dam (Shane Bickford)**

Shane Bickford introduced this topic and indicated that Douglas PUD has provided three documents to the group regarding the total dissolved gas study at Wells Dam (2005 operational plan, 2005/2006 plan, and approval letter from Washington Department of Ecology [Ecology]). Rick Klinge informed the group that Douglas PUD is conducting spill studies this week to investigate operations that will minimize production of dissolved gas in the river. These studies include tests comparing dissolved gas conditions under different turbine operations, and comparing dissolved gas conditions associated with spill occurring at certain gates (e.g., conducting spill at center gates and conducting spill at all gates). Following study completion, Douglas PUD will prepare a computational model to investigate study results. Rick Klinge informed the group that Ecology has been involved in the approval and design of these study plans.

## **VI Potential Future Rocky Reach Smolt Collection (Carmen Andonaegui)**

Carmen Andonaegui led a follow-up discussion to potential future Rocky Reach smolt collection from a previous meeting. This discussion initially began following the arrival of an unexpected group of 5,800 sockeye smolts (160 to 180 mm in length) on May 10 at Rocky Reach Dam. These fish were not detected at ONA's north or south fyke nets at Lake Osoyoos, and Howie Wright of the ONA believes that they may have originated in the central basin. To investigate the origin of these fish, the Coordinating Committees agreed that future sockeye smolt collection at Rocky Reach Dam is appropriate. The purpose of the sampling is to better understand the biology and life histories of stocks originating upstream. WDFW has issued a permit for this work; collection may include both lethal and non-lethal methods.

## **VII All-H Analyzer Meeting Update**

Bob Rose updated the group that there is a meeting on the All-H Analyzer on June 8 in Walla Walla; he can provide information to the group if requested. Jerry Marco updated the group that he attended the Upper Columbia Basin Workgroup workshop on the All-H Analyzer on May 9 through May 10. The purpose of this workshop was to refine inputs to the All-H Analyzer; information and results of this workshop can be obtained from Chip McConnaha at Jones and Stokes. Jerry Marco agreed to provide summary information to Ali Wick for dissemination to the Coordinating Committees.

## **VIII Other Items (Mike Schiewe)**

### *A. Rocky Reach Spill and Juvenile Sockeye Migration (Steve Hemstrom and Shaun Seaman)*

Steve Hemstrom and Shaun Seaman updated the Coordinating Committees that the migrational timing model, RealTime, is predicting that 81 percent of the juvenile sockeye outmigrants have passed the Rocky Reach Dam. Chelan PUD anticipates a Coordinating Committees conference call will be initiated after June 10 to discuss completion of the spill.

### *B. Descaling at Rocky Reach Dam (Jennifer Schollcraft)*

Jennifer Schollcraft presented a discussion and photographs of fish descaling patterns that biologists have been observing in 0 to 1.8 percent of chinook and coho juveniles in the Rocky Reach Dam juvenile fish bypass system. This pattern was not observed in 2003 (or in sockeye

salmon in any year); biologists and engineers are currently working to determine the potential cause(s) of these injuries.

*C. Coordinating Committee Operating Protocols (Mike Schiewe)*

Mike Schiewe updated the Coordinating Committees that he invites comments from the Coordinating Committees members on the draft operating protocols. Coordinating Committees members agreed to provide comments on their operating protocols to Mike Schiewe by June 15.

*D. Cruciform Structure/Orifice Gate (Thad Mosey)*

Thad Mosey presented a diagram of the cruciform structure (located just past the weir box) in the juvenile fish bypass system at Rocky Reach Dam. The structure was initially designed to break up a water vortex at the bypass structure at this point. Because entrainment of debris on this structure may pose descaling injury hazard, Chelan PUD is proposing to remove this structure completely. Brett Bickford (Chelan PUD Engineer) has verified that there is no structural problem associated with the removal of the cruciform structure. Thad Mosey and Shaun Seaman of Chelan PUD will provide a schedule and background (including pictures) for the Coordinating Committees' decision-making purposes. Bryan Nordlund agreed to coordinate with Thad Mosey to further discuss the cruciform structure.

Thad Mosey discussed the potential to modify the opening pattern of orifice gates (ogees) on the Rocky Reach powerhouse. The ogees provide entrance points for upstream migrating adult salmon to enter the fish ladders. Under conditions of open ogees and high tailrace elevations, it is difficult to meet criteria for differential values at the right bank powerhouse entrance. Previous telemetry studies indicate that salmonids use ogees 1, 2, 3, 14, 16, and 20 in a limited capacity and that salmonids mostly use ogee 1; lamprey use ogees 1, 3, and 16. Chelan PUD invited the Coordinating Committees' opinion on modification of the OG operations as follows: keep ogee 1 open until lamprey migration season begins, and then open ogees 1, 3, and 16 until the conclusion of lamprey migration. Thad Mosey and Lowell Rainey of Chelan PUD agreed to provide an annotated bibliography or summary of relevant telemetry data and a proposal for potential ogee operation modifications.

*E. Next Meeting*

The next meeting will be held Tuesday, June 28, 2005 in SeaTac, Washington.



**List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Andrew Grassell	Chelan PUD
Jennifer Schollcraft	Chelan PUD
Steve Hemstrom	Chelan PUD
Lowell Rainey	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge	Douglas PUD
Shane Bickford *	Douglas PUD
Bryan Nordlund *	NMFS
Brian Cates *	USFWS
Carmen Andonaegui	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Rick Klinge, Carmen Andonaegui, Bryan Nordlund

**Date:** August 2, 2005

**Re:** Revised Minutes of June 28, 2005 HCP Coordinating Committees Meeting

---

The Wells, Rocky Reach, Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Hotel Gateway in SeaTac, Washington on June 28, 2005 from 9:30 am to 12:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Mike Schiewe will stay in contact with Jerry Cormick, and provide the Coordinating Committees with regular updates on Rocky Reach Relicensing Settlement Agreement (Item II).
- Coordinating Committees members will forward any concerns regarding the Skaha sockeye project to Chelan PUD prior to the next Hatchery Committee meeting on July 20, 2005 (Item III).
- Thad Mosey agreed to coordinate with Bryan Nordlund of National Marine Fisheries Service (NMFS) on any outstanding concerns regarding the orifice gates and cruciform structure removal (Items IV and V).
- Coordinating Committees members will provide any final comments or concerns to Mike Schiewe regarding Committee Operating Protocols prior to the next meeting (Item VII).

### **DECISION SUMMARY**

- Coordinating Committees members approved the removal of the cruciform structure in the juvenile fish bypass system at Rocky Reach Dam, pending Chelan PUD's final discussions with NMFS (Item IV).

### **I Meeting Welcome and Approval of Agenda and Minutes (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the May Coordinating Committees Meeting Minutes. The Meeting Minutes were approved. (Ali Wick will send out final Meeting Minutes by email [sent July 1, 2005]). See Attachment A for the list of attendees.

### **II Rocky Reach Relicensing Settlement and Coordination with HCP Committees (Jerry Cormick and Greg Carrington)**

Gerald (Jerry) Cormick (Facilitator, Rocky Reach Relicensing) and Greg Carrington (Chelan PUD) provided a summary of the implementation process they have been developing for the Rocky Reach Relicensing Settlement. Jerry Cormick indicated that today's discussion was intended to begin a dialogue with the Coordinating Committees about the potential interaction between the Rocky Reach Relicensing Settlement Committee and the Rocky Reach HCP Committees. He provided several handouts that compared the proposed committee structure for implementation of the Rocky Reach Relicensing Settlement Agreement with that of the Rocky Reach HCP Committees, emphasizing their dispute resolution processes. Coordinating Committees members commented that member authority in the Rocky Reach Relicensing Settlement Committee process should be similar to the Rocky Reach HCP Committees member authority, in that members have decision-making authority in meetings. Jerry Cormick agreed and clarified that a diagram illustrating that Policy Committees for both processes should show the two committees on the same hierarchical level in the decision-making process. There was considerable discussion about the importance of coordination between both committees, and the need to avoid duplication. It was suggested that Mike Schiewe and Jerry Cormick stay in contact, and that Mike Schiewe provide the Coordinating Committees with regular updates on progress in the Rocky Reach Relicensing Settlement Agreement.

### **III Update: Tributary and Hatchery Committees (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that Chelan PUD has hired a Project Coordinator, Julie Pyper, to support the Tributary Fund process. In addition, pre-proposal applications for General Projects are due on June 30, 2005, and the full and final applications are due September 30, 2005. There was a Project Application workshop hosted on June 22.

The Tributary Committees are working on addressing large permitting costs and other issues related to permitting potential projects.

The following items are currently being addressed in the Hatchery Committees:

- The Chelan and Douglas PUD Monitoring and Evaluation (M&E) Plans are in the final stages of drafting, and are behind the scheduled June 21 due date outlined in the HCPs; however, Hatchery Committees members have agreed that the framework of the two M&E plans is sound and that only a limited number of final details need to be discussed prior to the finalization of the two documents, which is expected to occur at the July or August Hatchery Committees meeting.
- Discussions are ongoing regarding a white paper on Bacterial Kidney Disease (BKD) prepared by Chelan PUD.
- Discussions are ongoing regarding the Skaha sockeye project; Coordinating Committees members were asked to forward any concerns regarding this project to Chelan PUD prior to the next Hatchery Committees meeting on July 20, 2005.
- Broodstock collection protocols for 2005 were approved; however, it was acknowledged that the protocols are evolving documents that may be modified in-season with Washington Department of Fish and Wildlife (WDFW) and Hatchery Committees approval.
- Discussions are ongoing regarding the Twisp weir improvements, Chewuch trap, and Wells Hatchery screen activities.
- Chelan PUD is working on issues regarding the water supply at Chiwawa Hatchery.
- The Hatchery Committees will be asked to approve their Operating Protocols at the next meeting.

#### **IV Decision Item: Rocky Reach Bypass Conduit, Cruciform Structure Removal (Shaun Seaman)**

Shaun Seaman introduced this topic, and Thad Mosey provided a brief overview of Coordinating Committees discussions to date on the removal of the cruciform structure in the juvenile fish bypass at Rocky Reach Dam. Thad Mosey also summarized several email discussions with Bryan Nordlund of NMFS regarding this action. Since NMFS was not represented at this meeting, Mosey agreed to coordinate with Bryan Nordlund on any outstanding concerns regarding the cruciform structure and the orifice gate removal (see

Item V). Coordinating Committees members approved the proposal for removal of the cruciform structure, pending Chelan PUD's final discussions with NMFS (Attachment B).

**V Discuss: Orifice Gates Follow-up (Thad Mosey)**

Thad Mosey led a follow-up discussion on the proposed orifice gate closures at Rocky Reach Dam, and provided a handout describing past fish usage of orifice gates (Attachment C).

Thad Mosey agreed to coordinate with Bryan Nordlund of NMFS in this ongoing discussion, which will continue at the next meeting. Chelan PUD intends to make a decision on the proposed gate closure at a future meeting.

**VI Update: In-season Spill (Shaun Seaman)**

Shaun Seaman updated the Coordinating Committees that in-season spill was ongoing at Rocky Reach Dam and will be evaluated following the juvenile fish passage season in the fall.

**VII Other Items (Mike Schiewe)**

A. *Coordinating Committees Operating Protocols (Mike Schiewe)*

Mike Schiewe updated the Coordinating Committees that he requests final comments and will be sending out revised Operating Protocols prior to the next meeting, for approval at the meeting.

B. *Next Meeting*

The next meeting will be held Tuesday, July 26, 2005 in SeaTac.

**List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Thad Mosey	Chelan PUD
Michelle Smith	Chelan PUD
Greg Carrington	Chelan PUD
Jerry Cormick	CSE Group
Brian Cormick	CSE Group
Jerry Marco *	Colville Tribes
Rick Klinge	Douglas PUD
Shane Bickford *	Douglas PUD
Brian Cates *	USFWS
Carmen Andonaegui	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Rick Klinge, Bryan Nordlund, Carmen Andonaegui.

**Date:** August 23, 2005

**Re:** Final Minutes of July 26, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Hotel Gateway in SeaTac, Washington on July 26, 2005 from 9:30 am to 1:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Mike Schiewe will send out the finalized Coordinating Committees Operating Protocols by email (Item V).

### **DECISION SUMMARY**

- Coordinating Committees Operating Protocols were approved with amendments and will be sent out with final meeting minutes (Item V).

#### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the June 28 Meeting Minutes. The Meeting Minutes were approved with no amendments. (Ali Wick will send out final Meeting Minutes by email [sent August 2, 2005]). See Attachment A to these Meeting Minutes for the list of attendees.

#### **II Tributary and Hatchery Committees Update (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees on the following ongoing discussions in the Tributary Committees:



- The Tributary Committees are currently evaluating approximately 20 potential tributary projects that were pre-screened and identified as appropriate for the development of full proposals.
- Julie Pyper has been hired by Chelan PUD and assigned to work with the Tributary Committees as a Project Coordinator to provide logistical support to the group, including project development, permitting assistance, and contract management.
- Tom Kahler will be replacing Rick Klinge for Douglas PUD on the Wells Tributary Committees.
- The Tributary Committees plan to increase efforts to coordinate the Tributary Fund with other funding programs, including those of the Salmon Recovery Funding Board, the Bureau of Reclamation, the National Fish and Wildlife Foundation, and the Columbia Basin Water Transactions Program.

Mike Schiewe updated the Coordinating Committees that the following decisions have been made by the Hatchery Committees:

- The Hatchery Committees approved the Hatchery Committees Operating Protocols subject to amendments.
- The Hatchery Committees agreed that Chelan PUD could fund the Skaha Lake sockeye program to meet its sockeye salmon mitigation requirement.
- The Hatchery Committees approved Chelan PUD's Monitoring and Evaluation Plan (M&E Plan) with minor changes.

The following items are currently being addressed in the Hatchery Committees:

- The Hatchery Committees continued to discuss the Hatchery Committee Operating Protocols document (Attachment B).
- Discussions are ongoing regarding bacterial kidney disease (BKD) management. The Hatchery Committees agreed to a Joint Fisheries Party (JFP) proposal to fund an effort to review, compile, and synthesize existing information on the fate of high BKD adults and their progeny. Mike Schiewe is drafting a work plan for this effort.
- Douglas PUD is finalizing its M&E Plan and will request Hatchery Committees approval at the August meeting.
- Douglas PUD is redesigning the water intake screens at Wells Hatchery.

- Douglas PUD is preparing the final bid documents for the Chewuch weir; the permits for the Chewuch weir were submitted in late June, Douglas PUD anticipates construction in late 2005 to early 2006 toward the goal of collecting brood stock from the Chewuch in 2006.
- Grant PUD has requested 100,000 steelhead smolts from Wells Hatchery for survival studies. This request would affect broodstock collection protocols.
- The Yakama Nation is working with Washington Department of Fish and Wildlife (WDFW) to obtain approximately 2,000 surplus Chinook salmon from Wells Hatchery for ceremonial purposes.
- The Yakama Nation is developing a long-term plan for their coho salmon program in the mid- to upper-Columbia River. The Rock Island HCP requires Chelan PUD to provide a coho hatchery program if the Hatchery Committees determines that "...a hatchery program and/or naturally reproducing population of coho exists." This determination is required by the end of 2005. Mike Schiewe is working with the Yakama Nation and Chelan PUD to develop criteria for the Hatchery Committees to consider using in making this determination.
- Chelan PUD is working on a report on the Chiwawa River water issues and options; Chelan PUD anticipates that this will be presented at the next Hatchery Committees meeting.
- Chelan PUD is evaluating options for rearing ponds at Chelan Falls to accommodate a relocated Turtle Rock yearling program. Chelan PUD anticipates more definitive information will be available at the next Hatchery Committees meeting.
- Chelan PUD is developing its list of feasibility studies for 2006 and anticipates distributing this list at the next Hatchery Committees meeting.
- Chuck Peven is asking Hatchery Committees members for volunteers to join him at an October 5, 2005 meeting with the Entiat Watershed Planning Group to explain and answer questions about the designation of the Entiat River as a reference stream.
- The Department of Fisheries and Oceans – Canada will soon release three documents/reports regarding the use of the Sockeye Salmon Water Management Model to enhance sockeye salmon production toward meeting Douglas PUD's sockeye salmon hatchery obligation.
- Chelan PUD is considering contract options for implementation of their M&E Plan and will update the Hatchery Committees at a future Hatchery Committees meeting.

### **III Orifice Gates (Shaun Seaman)**

Shaun Seaman updated the group that Chelan PUD will not be proposing any orifice gate changes other than minor modifications to install a down-looking transducer to better measure water height.

### **IV Updates: In-season Spill and Other General Updates (Shaun Seaman)**

Shaun Seaman updated the group that in-season spill is currently being implemented at Rocky Reach and Rock Island according to plan, and that Chelan PUD is closely tracking juvenile fish passage to determine when the 95 percent passage has been reached. Contact information for Coordinating Committees members was confirmed to facilitate arranging conference calls on short notice when necessary to make operational decisions.

### **V DECISION: Approval of Coordinating Committees Operating Protocols**

The Coordinating Committees approved the Operating Protocols subject to the following additions:

- A statement was added that technical staff invited by the signatory parties could participate as non-voting members in Coordinating Committees meetings.
- A statement was added that the Operating Protocols were subject to periodic review and revised at the discretion of the Coordinating Committees.

The finalized document will be an attachment to final meeting minutes (Attachment B).

### **VI Other Items**

#### *A. Policy Meeting (Mike Schiewe)*

Mike Schiewe updated the Coordinating Committees that this meeting has not been rescheduled.

#### *B. Update on Rocky Reach Relicensing (Mike Schiewe)*

1. Mike Schiewe reported on conversations with Jerry Cormick that the settlement team is making steady progress and has draft management plans for all action areas except water quality, which is still in progress.

2. Jerry Cormick noted that no further progress has been made on the decision structure or dispute resolution processes.
  3. Jerry Cormick emphasized that the purpose of coordination with the HCP Committees is informational in nature, and wanted to assure Coordinating Committees members that the intent of any coordination is only for the purpose of information exchange.
- C. *Recovery Plan and HCPs (Carmen Andonaegui and Chuck Peven)*
- Carmen Andonaegui raised a concern that there may be inconsistencies between the objectives of HCPs and those of the draft Endangered Species Act (ESA) Recovery Plan. Chuck Peven indicated that there were indeed three main areas where inconsistencies were emerging: 1) the habitat restoration focus of the HCP versus the habitat preservation focus of the draft recovery plan; 2) the 1,000 fish harvest threshold negotiated under U.S. v Oregon as compared to the 4,500 fish harvest threshold identified as necessary for VSP in the recovery plan; and 3) the production focus of the of HCP hatchery programs versus the supplementation focus of the draft recovery plan.
- D. *Wells Relicensing Process (Shane Bickford)*
- Shane Bickford reported on the timeline for the Wells Relicensing Process and a meeting on October 18 in Wenatchee to kick-off stakeholder working groups. Douglas PUD is doing this to “jump start” the Wells relicensing process prior to initiation of the formal FERC relicensing process in December 2006. The four designated working groups consist of four disciplines, namely cultural (tribal), water quality and fish, social/land use, and terrestrial.
- E. *Next Meeting*
- The next meeting will be held Tuesday, August 23, 2005 in SeaTac, Washington.

## **List of Attachments**

Attachment A—List of Attendees

Attachment B—Final Approved Coordinating Committees Operating Protocols

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Alexia Dorsch	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge	Douglas PUD
Shane Bickford *	Douglas PUD
Bryan Nordlund	NMFS
Brian Cates *	USFWS
Carmen Andonaegui	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member

**ATTACHMENT B  
FINAL APPROVED COORDINATING COMMITTEES OPERATING  
PROTOCOLS**

**(included at the beginning of Appendix A of Annual Report)**



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**Date:** August 19, 2005

**Re:** Final Minutes of August 9, 2005 HCP Coordinating Committees Conference Call

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Members of the Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans Coordinating Committees met by conference call on August 9, 2005, from 3:30pm to 4:30pm to consider a proposal by Chelan PUD to modify spill at Rocky Reach and Rock Island dams. Attendees are listed in Attachment A to these minutes. During this call, the Committees agreed to the following:

Rock Island: Based on subyearling chinook salmon counts of 0.3% (or less) of the seasonal cumulative passage counts for the past four days (Aug 6-9) and a Real Time estimate of passage percentage of 98.6%, the HCP CC agreed to the Chelan PUD proposal to terminate spill effective at the close of this call.

Rocky Reach: Based on subyearling chinook salmon counts of 0.3% (or less) of the seasonal cumulative passage counts for two of the past four days (Aug 6-9) and a Real Time estimate of passage percentage of 99.7%, the HCP CC agreed to the following Chelan PUD proposal:

a) if the subyearling chinook salmon count on August 10, 2005 is 0.3% (or less) of the cumulative seasonal count, then spill shall be terminated at midnight on August 10, 2004; alternatively

b) if the subyearling chinook salmon count on August 10, 2005 is >0.3% of the seasonal cumulative passage count, no change in the spill program will be made until the HPC CC meets again via conference call at 3:30p on August 11, 2005 to consider new data re status of the subyearling chinook outmigration.

## Attachment A – List of Attendees

Name	Organization
Mike Schiewe *	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Bryan Nordlund	NMFS
Brian Cates *	USFWS
Carmen Andonaegui	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member





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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Steven Hemstrom, Ali Wick

**Date:** August 19, 2005

**Re:** Final Minutes of August 11, 2005 HCP Coordinating Committees Conference Call

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Members of the Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans Coordinating Committees met by conference call on August 11, 2005, from 3:30pm to 4:00pm to consider a proposal by Chelan PUD to modify spill at Rocky Reach Dam. Attendees are listed in Attachment A to these minutes.

Over the past three days, subyearling chinook salmon passage at Rocky Reach has been greater than 0.3% of the seasonal cumulative passage count (note: 0.3% would be approximately 37 fish per day based on the current cumulative amount). On this call, the Committee discussed 2004's experience when spill was prematurely terminated on August 3, to be restarted on August 10 to accommodate increasing passage, and then finally terminated on August 21. It was noted by the Committee that, from a passage timing perspective, the dates of the increasing passage that caused these problems last year have now passed.

During this call, the Committees agreed to the following:

If daily passage counts are <0.3% of the seasonal cumulative passage counts on August 12, 13, and 14, spill will be concluded at midnight on Sunday, August 14; alternatively,

If daily passage counts are <0.3 of the seasonal cumulative passage counts on 3 or the 4 days between Friday, August 12, and Monday, August 15, spill would be concluded on midnight August 15; alternatively,

If the 0.3% of cumulative passage criterium is not met, the Committees will meet again by conference call on Monday, August 15 at 3:00 pm to discuss further.

### Attachment A – List of Attendees

Name	Organization
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Steve Hemstrom	Chelan PUD
Jerry Marco *	Colville Tribes
Ritchie Graves *	NMFS
Carmen Andonaegui	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Steven Hemstrom, Ali Wick

**Date:** August 24, 2004

**Re:** Final Minutes of August 15, 2005 HCP Coordinating Committees Conference Call

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Members of the Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans Coordinating Committees met by conference call on August 15, 2005, from 3:00pm to 3:30pm to consider a proposal by Chelan PUD to end supplemental spill at Rocky Reach Dam. Attendees are listed in Attachment A to these minutes.

Subyearling chinook salmon counts at Rocky Reach Dam have been less than 0.3% of the seasonal cumulative passage count for three of the past four days (Friday, August 12 through Monday, August 15). Based on these low counts, and a RealTime estimate of 99.8% passage, the Committees agreed to the Chelan PUD proposal to terminate supplemental spill as of 12:00 am on Tuesday, August 16. The juvenile fish bypass system will remain in operation until August 31.

### Attachment A – List of Attendees

Name	Organization
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Steven Hemstrom	Chelan PUD
Jerry Marco *	Colville Tribes
Ritchie Graves *	NMFS
Carmen Andonaegui	WDFW

\* Denotes Coordinating Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Rick Klinge, Bryan Nordlund

**Date:** September 28, 2005

**Re:** Final Minutes of August 23, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Hotel Gateway in SeaTac, Washington on August 23, 2005 from 9:30 am to 1:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Mike Schiewe will contact the HCP non-signatories to determine their interest in a fall or winter meeting, and confirm their willingness to attend. He will prepare a list of options for the next Mid-Columbia Forum (Forum) for discussion at the next meeting (Item V-A).

### **DECISION SUMMARY**

- There were no decision items at this meeting.

#### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the July 26 Meeting Minutes. The Meeting Minutes were approved with no amendments. (Ali Wick will send out final Meeting Minutes by email [sent August 23, 2005]). See Attachment A to these Meeting Minutes for the list of attendees.

## **II Tributary and Hatchery Committees Update (Mike Schiewe and Bob Bugert)**

Bob Bugert updated the Coordinating Committees on the following ongoing discussions in the Tributary Committees:

- Bugert will be meeting with the Salmon Recovery Funding Board (SRFB) Executive Director to discuss the coordination of the SRFB and Tributary Fund funding sources. There is also intent to coordinate with the Community Salmon Fund and Bonneville Power Administration funding, as well as U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) grant processes. The Tributary Committees are investigating options to collaborate with the Bureau of Reclamation's Tributary Habitat Program under the 2004 Biological Opinion for the Federal Columbia River Power System.
- There are ongoing deliberations among legal advisors to Washington Department of Fish and Wildlife (WDFW), NMFS, and Chelan and Douglas PUDs on the ownership of Plan Species Accounts (HCP Committees vs. Public Utility Districts). Presently, this is an issue of concern, and may delay the Tributary Committees' ability to award contracts this funding cycle (due date for decisions on general projects is January 2006).
- Several small projects have been submitted for funding; some have been declined.

Mike Schiewe updated the Coordinating Committees that the following decisions have been made by the Hatchery Committees:

- The Hatchery Committees approved the Hatchery Committee Operating Protocols.
- The Hatchery Committees agreed to continue review of the Douglas PUD Monitoring and Evaluation (M&E) Plan and deferred the decision of approval until the next meeting.
- The Hatchery Committees completed email approval for the Statements of Agreement for the Skaha Program and for the Chelan PUD M&E Plan.

The following items are currently being addressed in the Hatchery Committees:

- Discussions are ongoing regarding implementation of the Chelan PUD M&E Plan; Chelan PUD will be working with Tracy Hillman of Bioanalysts and Andrew Murdoch of WDFW regarding hypotheses and statistical considerations for the design of the effectiveness monitoring and adaptive management program.

- Mike Schiewe has drafted a bacterial kidney disease (BKD) work plan and the Chelan and Douglas PUDs are currently discussing the proposed implementation of this work plan.
- The review period for the *2004 Methow Chinook and Steelhead Monitoring Report* is closed; Coordinating Committees members are asked to contact their Hatchery Committees representative if interested in reviewing this document.
- The design for the Wells water intake screen and the permitting process for the Chewuch weir are being discussed.
- Discussions are ongoing regarding the engineering of water sources at Chiwawa Hatchery and a report will be reviewed at the next meeting.
- Chelan Falls Hatchery water supply pipe may need to be replaced sometime in the next 10 years.
- Discussions are ongoing regarding the relocation of the Turtle Rock Subyearling Chinook Program. Chelan PUD has broadened their investigation of locations beyond Chelan Falls because of complications associated with powerhouse operations and Reach 4 mitigation at the Chelan Falls site. Chuck Peven will provide the revised matrix and accompanying report of potential hatchery relocation options to the Coordinating and Hatchery Committees based on feedback from Committees members (October 2005 meetings).
- Discussions have been initiated regarding criteria for determining whether a viable, self-sustaining coho population or a hatchery program exists as required by the Rock Island HCP in 2005. The Hatchery Committees are discussing the possibility of deferring a determination in 2005 until 2006 when the Northwest Power Planning and Conservation Council decision on long-term funding has been made (which may signal their willingness to support long-term funding) and when similar decisions are required by the Wells and Rocky Reach HCPs.
- Final email approvals on the Statements of Agreement for the Skaha Program and the Chelan M&E Plan were received.

### **III Updates: Douglas PUD (Shane Bickford)**

Shane Bickford updated the Coordinating Committees that the Integrated Licensing Process (ILP) workshop is scheduled for October 18. The objective of the workshop is to share information regarding the ILP process and timeline. Bickford provided a schedule of



Resource Work Group meetings; participation of stakeholders in these is encouraged. The purpose of Resource Work Groups is to identify and discuss potential resource issues and develop study plans relating to Wells Dam prior to sending the official Pre-Application Document and Notice of Intent to relicense Wells Dam to the Federal Energy Regulatory Commission (FERC).

#### **IV Updates: Chelan PUD (Shaun Seaman)**

##### *A. 2005 Chelan PUD Study Results*

By September 1, Chelan PUD will have preliminary results of the survival studies; results will be finalized shortly thereafter. Fish Passage Efficiency (FPE) and triple-release data will be available on October 1; Rock Island triple-release data for yearling chinook will be available by mid-November. At the September meeting, Chelan PUD expects to provide information on the status of these projects.

##### *B. Termination of Supplemental In-season Spill at Rocky Reach and Rock Island*

Supplemental spill was terminated at both Rocky Reach (August 15) and Rock Island (August 9); termination was handled and approved by conference call by the Rock Island and Rocky Reach Coordinating Committees. Chelan PUD expressed its thanks to the Coordinating Committees for handling this effort efficiently.

#### **V Other Items**

##### *A Next Mid-Columbia Forum*

At the last Hatchery Committees meeting, the NMFS representative (Kris Petersen) requested that the Coordinating Committees discuss planning for a fall or winter Forum. In a letter to FERC last year, the Forums were identified as a primary means for communication and interaction with American Rivers, Umatilla Tribe, and Grant PUD, all of whom participated in the HCP negotiations but elected not to sign the final HCPs. The Coordinating Committees suggested that Mike Schiewe contact these non-signatories to determine their interest in a fall or winter meeting, and confirm their willingness to attend. There was considerable Coordinating Committees discussion about possible formats, including hatchery research, specific basin data, and/or study results. The Coordinating Committees discussed a small roundtable meeting this fall with the non-signatories to discuss specific

interests and concerns. A second meeting in the spring of 2006 might be comprised of a one and a half day Forum, with the first day focused on education regarding hatchery accomplishments and study results, and the next morning on Tributary Committees happenings. Mike Schiewe will prepare a list of options for upcoming meetings of the Forum for discussion at the next meeting.

*B Grant PUD Side-by-Side Survival Studies and Requests to Douglas PUD*

Grant PUD has requested the assistance of Douglas PUD in rearing study fish for Grant PUD's juvenile salmonid survival studies. In 2006, Grant PUD will be conducting a side-by-side (Passive Integrated Transponder [PIT] and acoustic tags) steelhead survival study; if results are acceptable to the Priest Rapids Coordinating Committees, then no further PIT-tag studies may be required in 2007. However, if results are not acceptable and a 2007 study is required, there will be a need for 150,000 steelhead for another side-by-side study in 2007. Wells Hatchery staff is now collecting additional broodstock to cover Grant PUD's request to have an additional 150,000 steelhead smolts available for release in 2007. .

*C Update on Rocky Reach Relicensing*

Mike Schiewe updated the Coordinating Committees that he has been in contact with Jerry Cormick regarding Rocky Reach Relicensing. Cormick said that there has been progress in setting meetings and drafting plans for this effort, but there is no further information at this time.

*D Wells Dam Updates*

Shane Bickford updated the Coordinating Committees that the Wells Dam bypass will be ceasing operations on August 26 at midnight and that Douglas PUD will soon have a summary report to the Coordinating Committee shortly. Bickford also updated the Coordinating Committees that WDFW staff working on the radio telemetry study at Wells Dam had failed to re-open the ladder at the dam after concluding trapping activities on Wednesday, August 10. As a result of the ladder blockage, adult fish continued to accumulate in the ladder downstream of the trap. Due to this blockage of the fish ladder, several fish jumped out of the ladder and died. In addition, up to 400 adult chinook and steelhead were also prevented from continuing their migration upstream until the morning

of Friday, August 12. No Endangered Species List (ESA)-listed species were killed during this event.

E      *Next Meetings*

The next meeting will be held Tuesday, September 27, 2005 in SeaTac, Washington. The October meeting will be scheduled for October 17 in Wenatchee instead of October 25 in SeaTac.

**VI    List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Bob Bugert	HCP Tributary Committees Chair
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge	Douglas PUD
Shane Bickford *	Douglas PUD
Bryan Nordlund	NMFS
Brian Cates *	USFWS
Carmen Andonaegui *	WDFW
Bob Rose *	(by conference call) Yakama Nation

\* Denotes Coordinating Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Chuck Peven, Rick Klinge, Scott Carlon, and Dick Nason

**Date:** October 18, 2005

**Re:** Final Minutes of September 27, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Hotel Gateway in SeaTac, Washington, on September 27, 2005, from 9:30 am to 2:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final August 23 Meeting Minutes to the Coordinating Committees by email [sent September 28, 2005] (Item I).
- Ali Wick will send out call details for Friday, September 30, 2005, for a conference call to continue discussion of 2005 Rocky Reach survival study results for steelhead (Item V-A).
- Steve Hemstrom will present a summary of spring and summer spill for Rocky Reach and Rock Island at the next meeting (Item V-C).
- Ali Wick will send out details for the Monday, October 3, 2005 conference call pertaining to the upcoming Entiat Watershed Planning meeting (Item VI-A).
- Coordinating Committees members will share the idea of an interactive format (possibly an initial group presentation and question/answer, followed by breakout sessions where attendees can interact directly with members of the Tributary and Hatchery Committees) for the next Mid-Columbia Forum with their respective agencies for comment (Item VI-B).

## **DECISION SUMMARY**

- The Coordinating Committees approved the Chelan PUD request for early initiation of the 2005/2006 maintenance period, to span the period of December 5, 2005 through February 3, 2006 (Item II).

### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the August 23 Meeting Minutes. The Meeting Minutes were approved with minor amendments. Ali Wick will send out final Meeting Minutes by email [sent September 28, 2005]. See Attachment A to these Meeting Minutes for the list of attendees.

### **II DECISION POINT: Ladder Outage Request**

Shaun Seaman introduced a proposal by Chelan PUD for an early initiation of the 2005/2006 maintenance period at Rocky Reach to conduct maintenance on the fish ladder. The work would be conducted between December 5, 2005, and February 3, 2006 (the traditional maintenance period is early January to early March). The Coordinating Committees approved this request.

### **III Tributary and Hatchery Committees Update (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees on the following ongoing discussions in the Tributary Committees:

- The Tributary Committees' decision on ownership of Plan Species Accounts remains unresolved, but in the interim (for small projects), this ownership will be attributed to the Tributary Committees rather than the PUDs.
- The Rock Island Tributary Committee approved funding of the McDevitt Small Project and the Gagnon Small Project; additionally, the Wells, Rocky Reach, and the Rock Island Tributary Committees declined funding the Belsby Small Project.
- The submission deadline for applications to the General Salmon Habitat Program under the Tributary Committees is September 30, 2005.

Mike Schiewe updated the Coordinating Committees that the following decisions have been made by the Hatchery Committees:

- The Hatchery Committees approved the Douglas PUD Monitoring and Evaluation (M&E) Plan.
- The Hatchery Committees approved Douglas PUD rearing 150,000 steelhead at Wells Hatchery for Grant PUD survival studies in 2007.

The following items are currently being addressed in the Hatchery Committees:

- Discussions are ongoing regarding the Douglas PUD Chewuch weir permit.
- National Marine Fisheries Service (NMFS) is evaluating extending steelhead and coho trapping at Wells Dam. NMFS expects to have their evaluation of the coho trapping effort completed by October 10, 2005.
- Douglas PUD provided the Hatchery Committee with an update on a letter sent to the Washington Department of Fish and Wildlife (WDFW) clarifying the events surrounding the August 11 and 12, 2005 fish mortalities at the east ladder brood collection trap at Wells Dam.
- Douglas PUD informed the Hatchery Committee that the water right for the Wells Hatchery is covered by their hydropower water right which is 220 kcfs.
- Chelan PUD is reviewing recommendations for the relocation of the Turtle Rock subyearling Chinook program.
- Chelan PUD has revised the Draft List of Feasibility Studies and Planned Construction Work for 2005-2006 to reflect internal discussions and Hatchery Committees comment.
- Chelan PUD has sent out a Request for Proposal (RFP) for its M&E work and the PUD expects to have proposals back by November 1, 2005.
- Chelan PUD is involved in a study to investigate sustainability of the aquifer supplying East Bank Hatchery.
- Chelan PUD is taking new steps to ensure security at Dryden Ponds, including discussions between the Yakama Nation, WDFW, and Chelan PUD.
- WDFW has determined that there is excess production of summer chinook in the Similkameen program and WDFW is evaluating options for relocation of these excess fish; the Hatchery Committees will be continue to be involved in these discussions.
- Work is ongoing with Chelan PUD and BioAnalysts on the M&E Plan statistical decision rules.
- The Chiwawa Water Feasibility report is still being revised and the report, schedule, and timeline will be available at the October 2005 meeting.

- Mike Schiewe will be preparing a white paper on research and management of Bacterial Kidney Disease (BKD) in Oregon, Washington, Idaho, Northern California, and British Columbia.

#### **IV Updates: Douglas PUD (Shane Bickford)**

Shane Bickford updated the Coordinating Committees on the 2005 bypass season at Wells Dam. Spring bypass began on April 12 and ran through June 13. There were 67 hours of forced spill. Part of this spill was initiated in coordinating with WDOE and was implemented as part of Douglas PUD's total dissolved gas (TDG) study. Summer bypass spill began on June 14, 2005, and ended August 26, 2005, with 6.8 percent of total discharge dedicated to summer bypass. There were 26 hours of forced spill that occurred at Wells Dam.

#### **V Updates: Chelan PUD (Shaun Seaman)**

##### *A. Initial Survival Study Results*

Shaun Seaman summarized survival study results for Chinook and sockeye salmon at Rocky Reach and Rock Island dams, and for steelhead at Rocky Reach Dam. Results (not finalized at this time) include, among others, the Fish Passage Efficiency (FPE), route specific survival from the triple release studies, and "spill on vs. spill off" results for sockeye for Rocky Reach Dam; these will likely be available for the next meeting. Results of the triple release study at Rock Island for yearling Chinook will not be available until the November meeting. Chuck Peven presented additional information about the steelhead studies at Rocky Reach that suggested that the hatchery steelhead used in this study were poor test animals and that Run-of-River (ROR) steelhead were better representatives of the population passing the dam. Chelan PUD requested that the Committees approve the results from the ROR acoustic tag study for the purpose of phase designation for both 2004 and 2005, and future studies. The Committees expressed the need for more time to consider this request and consider options. The path forward may include some combination of the following options: 1) following this suggestion and discontinuing the use of Passive Integrated Transponder (PIT) tags for hatchery steelhead in future studies, 2) not following this suggestion and continuing side-by-side tagging and evaluation in future studies, and/or 3) evaluating similar side-by-side study results produced by Grant PUD in 2006 before



making a decision. The Coordinating Committees agreed to continue this discussion at a conference call on Friday, September 30, 2005. Ali Wick will send out details for this call.

*B. Survival Study Report Template*

Chuck Peven presented a draft outline for the 2005 survival studies report and requested input from the Coordinating Committees. The Committees agreed that the content of this proposed outline is adequate for Chelan PUD to continue preparing the report.

*C. 2005 Spill Results*

Shaun Seaman summarized spring and summer spill results for 2005 at Rocky Reach and Rock Island; these will be presented by Steve Hemstrom at the November meeting.

**VI Other Items**

*A. Entiat Watershed Meeting*

Mike Schiewe introduced this topic and welcomed Hatchery Committees members who joined this discussion by conference call (Kristine Petersen, NMFS; Tom Scribner, Yakama Nation; and Kirk Truscott, WDFW). Chuck Peven gave some background on these discussions regarding the potential designation of the Entiat River as a reference stream for steelhead, which (if selected) would be designated under the HCP Hatchery Committee process. The Committee decided that it makes sense for each entity to address the questions that pertain to its policies at the meeting. A conference call was scheduled for Monday afternoon, October 3, 2005; Ali Wick will send out call details.

*B. Mid-Columbia Forum Options*

Mike Schiewe updated the Committees that he had contacted the HCP non-signatories with an invitation to participate in an update of the HCP Committee process since the last Mid-Columbia Forum in early 2005. He has not received a reply from either organization yet, but will follow up with a formal letter. Schiewe polled Committees members on setting up a Mid-Columbia Forum for other interested parties of the public; the meeting would be educational in nature with separate updates on Hatchery and Tributary Committees' progress, according to the interest of the attendees. The group discussed having smaller breakout groups as a way to make the meeting more interactive. A possible format would be an initial group presentation and question/answer session, followed by topic-specific

sessions on hatcheries and tributary habitat programs. Committees members agreed to share this idea with their respective agencies for comment.

*D. Next Meetings*

The October meeting will be on Monday, October 17, in Wenatchee. The November meeting will be on November 30 (instead of November 22), and will be held in SeaTac. The December meeting will be on December 13 in Wenatchee (instead of December 27 in SeaTac).

**List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Dick Nason	DNC
Rick Klinge	Douglas PUD
Shane Bickford *	Douglas PUD
Scott Carlon	NMFS
Brian Cates *	USFWS
Carmen Andonaegui *	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member



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## Final Memorandum

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**To:** Rocky Reach and Rock Island HCP Coordinating Committees  
**From:** Michael Schiewe, Chair, HCP Coordinating Committees  
**Cc:** Tom Dresser, Dick Nason, Ali Wick  
**Date:** November 14, 2005  
**Re:** Final Minutes of September 30, 2005 Rocky Reach and Rock Island HCP Coordinating Committees Conference Call

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Members of the Rocky Reach and Rock Island Dams Habitat Conservation Plans Coordinating Committees met by conference call on September 30, 2005, from 9:00 am to 9:45 am to continue discussion of the initial results from 2005 Chelan PUD steelhead survival studies at Rocky Reach Dam. Attendees are listed in Attachment A to these minutes.

The purpose of this call was to discuss the acceptance of Chelan PUD's 2005 steelhead run-of-river (ROR) acoustic tag study results for Rocky Reach (Attachment A). Chelan PUD proposed the following:

- To accept the 2005 Rocky Reach ROR steelhead acoustic-tag study results (93.0% survival  $\pm 1.4$ )
- To perform acoustic-tag steelhead studies in 2006 with run-of-the river (ROR) steelhead and not hatchery steelhead
- To include both 2005 and upcoming 2006 results for use in the HCP phase designation which could occur as early as 2006

Curt Dodson gave a synopsis of the discussion of the Grant PUD survival studies planned for 2006 which occurred during the Priest Rapids Coordinating Committees meeting on September 28, 2005. Dodson indicated that it was decided during the PRCC meeting that the results of Chelan PUD studies did not affect Grant PUD plans for 2006, but did indicate that the possibility of including a test using ROR steelhead in 2006 was being considered.

Committees members reviewed the survival estimates for the various tagging methods for steelhead at Rocky Reach Dam: Run-of-River Acoustic tagged-fish: 93.0 (1.4) %; Hatchery Acoustic tagged fish: 87.0 (1.9) %; Hatchery PIT-tagged fish: 99.0 (3.1)%. After additional discussion of possible reasons why results obtained with hatchery fish were not representative of the run passing the dam, the Rocky Reach and Rock Island Coordinating Committees unanimously agreed (with the Yakama Nation abstaining) to accepted the survival study result based on acoustically tagged ROR steelhead for Rocky Reach Dam in 2005, and agreed to an acoustic tag survival study with ROR steelhead for 2006. Both would be considered in HCP phase designation for Rocky Reach Dam. Yakama Nation abstained from voting due to unfamiliarity with the study results at this time.

**List of Attachments**

Attachment A - Path Forward for Steelhead Studies to Estimate Survival for Rocky Reach and Rock Island

Attachment B – Call Attendees

# Path Forward for Steelhead Studies to Estimate Survival for Rocky Reach and Rock Island Dams

Chuck Peven

*Revised* October, 2005

## Introduction

Studies began in 2004 to estimate whether steelhead are meeting the HCP survival standard at Rocky Reach and Rock Island dams (Table 1). The HCP CC agreed that acoustic tags could be used initially to estimate survival, and it was agreed that a comparison with PIT tags would be conducted in 2005.

In 2004, project survival (using acoustic tags) was estimated at 98.3% (SE=0.0018) at Rocky Reach and 96.6% (SE=0.011) at Rock Island. In 2005, a comparison was done between three different groups of steelhead using PIT and acoustic tags to estimate Rocky Reach project survival. Steelhead, initially reared at Wells Hatchery, and transferred to Turtle Rock Island for final rearing, were tagged with both PIT and acoustic tags. Run-of-river (ROR) fish, captured at the Rocky Reach bypass trap, were acoustically tagged also.

Standard protocols were applied to all groups of fish, and they were released at tagging/release sites downstream of Wells and Rocky Reach dams (and Rock Island tailrace with acoustic tags using ROR fish only).

The main focus of this paper will be on the three estimates for Rocky Reach.

## Results for Rocky Reach

Preliminary survival estimates for 2005 (table 1) are:

- 99% for PIT tagged hatchery fish
- 87% for acoustic tagged hatchery fish
- 93% for acoustic tagged ROR fish

Table 1. Summary of steelhead smolt survival estimates at Rocky Reach of PIT-, radio- or acoustic-tagged smolts.

Project	Year	Tagging	Method <sup>a</sup>	Survival Estimate	Standard Error
Rocky Reach	1999	PIT-tag (H) <sup>b</sup>	SRR	0.959	0.010
	1999	Radio-tag (ROR)	PRR	0.966	0.038
	2000	PIT-tag (H) <sup>b</sup>	SRR	0.967	0.008
	2004	Acoustic-tag (ROR)	PRR	0.983	0.018
	2005	PIT-tag (H)	PRR	0.990	0.031

	2005	Acoustic-tag (H)	PRR	0.870	0.019	
	2005	Acoustic-tag (ROR)	PRR	0.930	0.014	
Rock Island Dam						
	1999	Steelhead (H)	PIT-tag	PRR	0.958	0.014
	1999	Steelhead (H)	Radio-tag	PRR	0.998	0.047
	2000	Steelhead (ROR)	Radio-tag	PRR	0.920	0.017
	2004	Steelhead (ROR)	Acoustic-tag	PRR	0.966	0.011
	2005	Steelhead (ROR)	Acoustic-tag	PRR	0.915	0.0154

<sup>a</sup> PRR = paired release-recapture; SRR = single release-recapture.

<sup>b</sup> Estimates are based on releases from Douglas County PUD survival studies

### Discussion

The District was surprised to see such large discrepancies among the different estimates. In particular the estimate for the acoustic tagged hatchery fish was of concern, because it was considerably lower than any other estimates that have been generated for Rocky Reach since 1999 (Table 1). Therefore, a group of District employees and consultants began to investigate potential explanations of this disparity. The following is the result of this investigation. We considered several mechanisms that could have yielded such low survival for acoustically tagged H-fish.

We propose that hatchery steelhead are poor test animals for estimating project survival at Rocky Reach Dam. Basically, we suspect (and have evidence to support) that the H-fish were either in poorer condition than the ROR-fish, or were not as physiologically developed. One or both of these conditions resulted in either compromised survival or diminished propensity to migrate, which skewed survival estimates low. We explore some of this evidence herein.

#### 1) Survival between reservoir detection sites

In 2005, we installed detection sites within the RR reservoir because of lingering questions about sockeye survival in 2004. As such, we were able to monitor all species that had acoustic tags. Estimates were compared between hatchery and ROR steelhead. The data suggests that over 4% of the hatchery steelhead did not

survive (or, more accurately, were detected) from release to the transect at BB bridge. This compares to 1.5% for ROR steelhead. Hatchery steelhead estimated survival between additional detection sites were consistently lower than ROR fish as they traveled through the PUD projects (Figure 1).

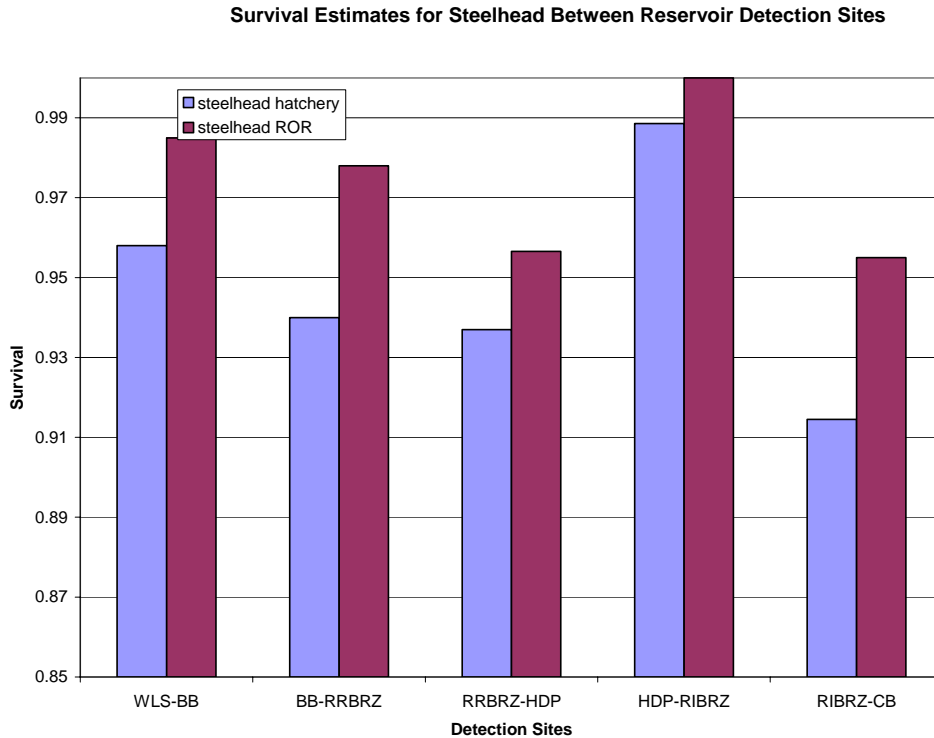


Figure 1. Single release (Cormack-Jolly-Seber) estimates of survival between detection sites for hatchery- and ROR steelhead, 2005.

## 2) Fish condition

Since no formal physiological testing was done in 2005, we examined fish condition (k-factor) as an indicator of physiological readiness of fish to migrate. ROR and H-fish exhibited different condition factors (Figure 2). 60% of the H fish exhibited  $K > 1.0$ , whereas only 23.7% of the ROR did so. K-factor is one indicator of the degree of smolt development. This observed difference suggests the two groups could have been at differing stages of smolt development.



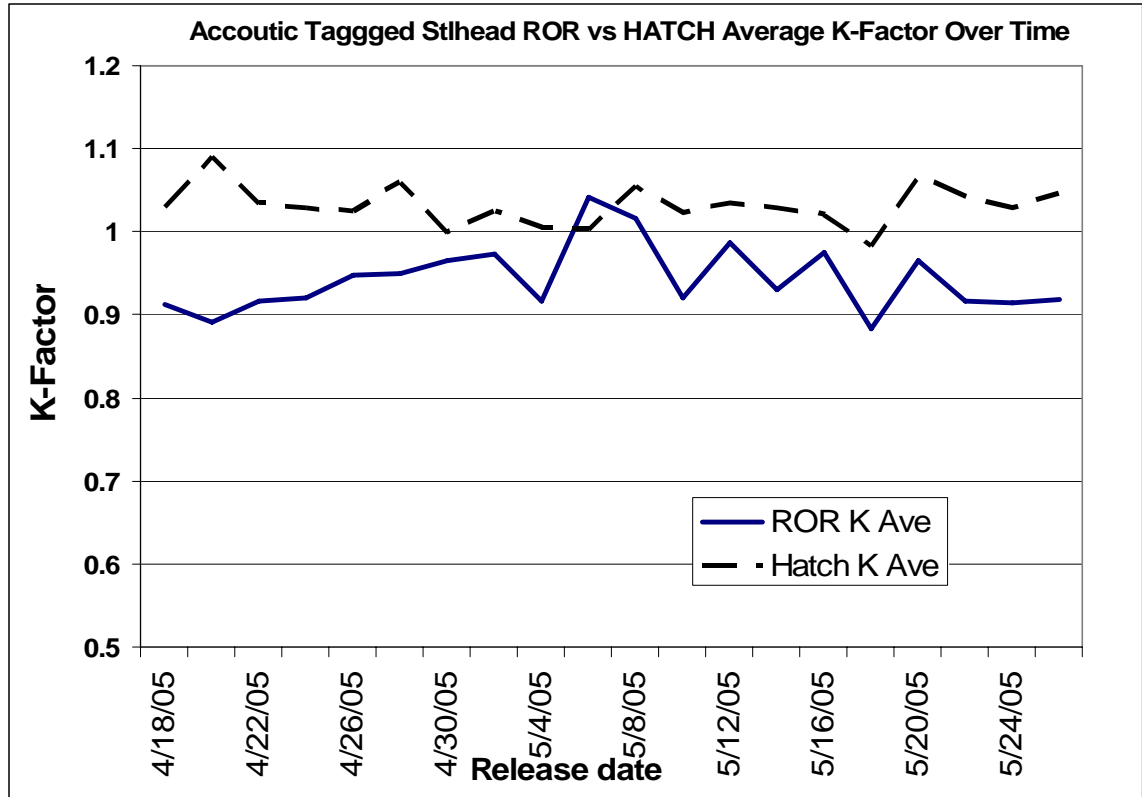
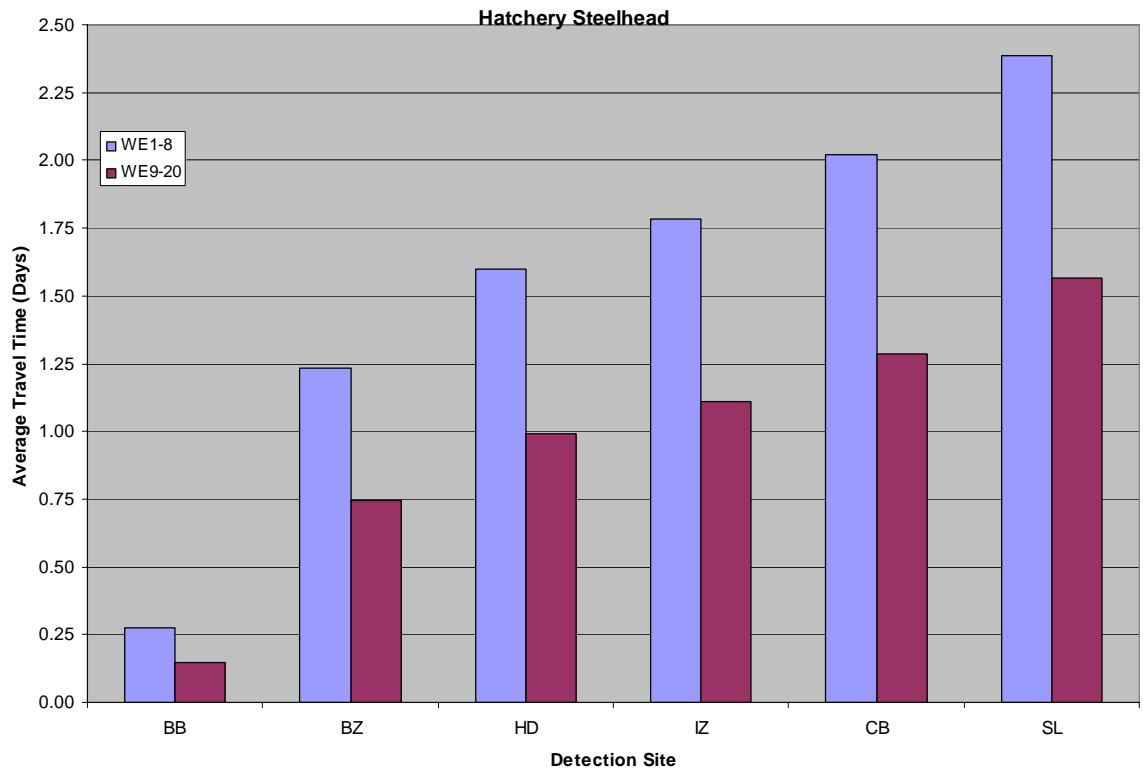


Figure 2. Comparison of conditions factor between hatchery and ROR steelhead per release group.

### 3) Travel time

Observed differences in travel time between ROR and H support the fish condition hypothesis. H-fish moved slower than ROR fish and showed a greater difference between release groups than ROR fish. Furthermore, early releases of H fish were slower than later counterparts (Figure 3). The first 8 groups of H fish appeared to be less ready to migrate than either the later groups of H fish or ROR fish. Longer travel time also could mean longer exposure to predators, which would likely result in lower survival in hatchery fish.

A



B

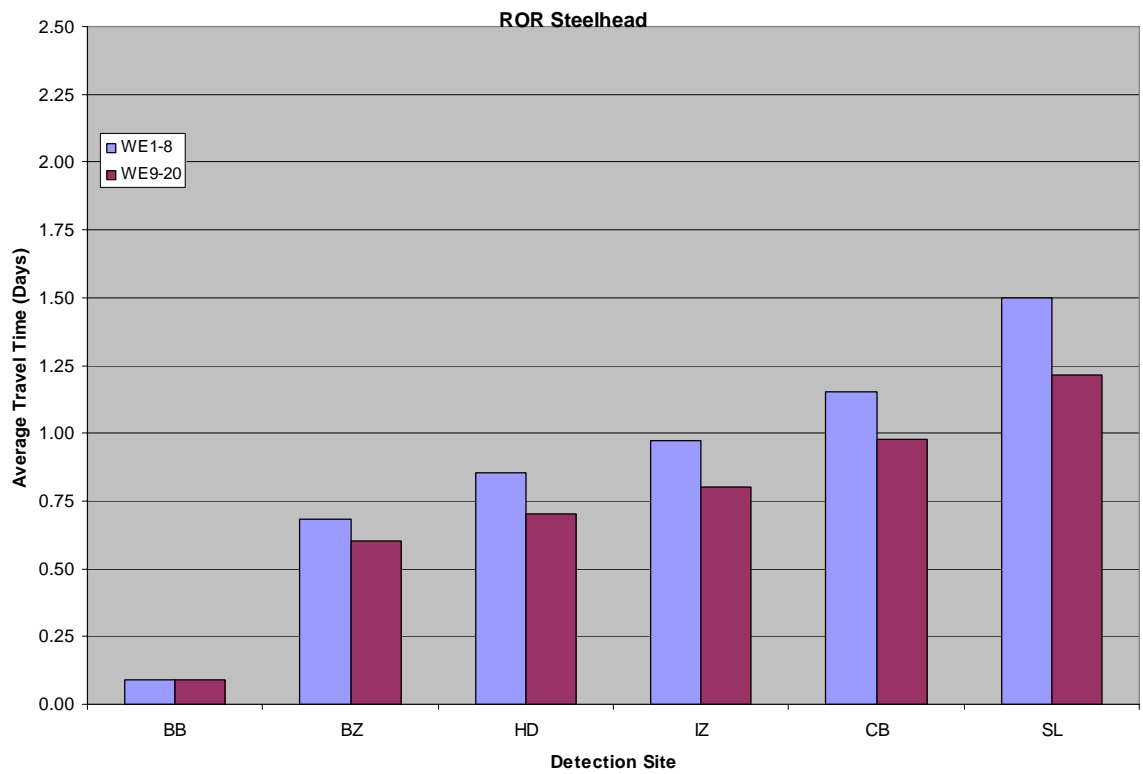


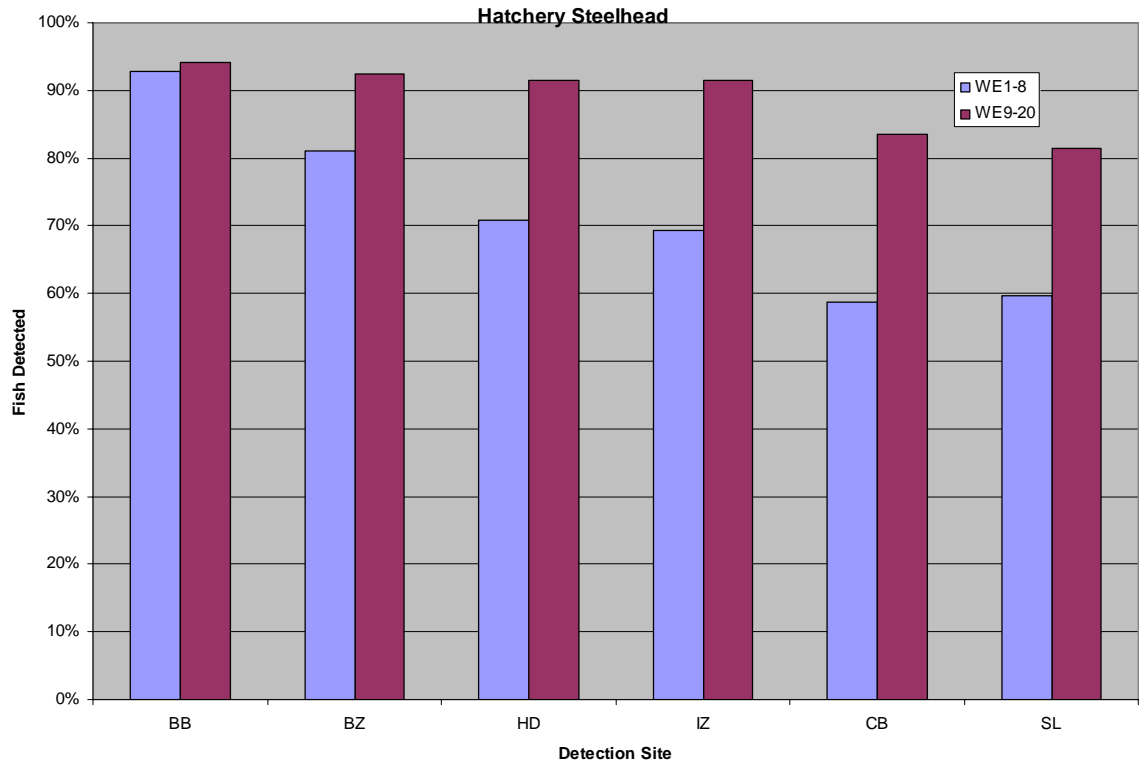
Figure 3. Fish travel time to reservoir detection sites comparing acoustic tagged Wells releases groups 1-8 with 9-20 for A) hatchery steelhead; B) ROR steelhead (spring 2005).

#### 4) Detection rates within the RR reservoir

Detection rates for groups 1-8 were consistently lower than groups 9-20 at all reservoir detection sites for the hatchery release groups (Figure 4). For ROR fish, grouped the same way, this trend was the opposite.

This suggests that H fish released earlier were behaving differently or incurring higher post-release mortality than ROR counterparts. These temporal patterns align with travel time indices and strengthen the argument that this hatchery group was not representative of the ROR population at large.

A



B

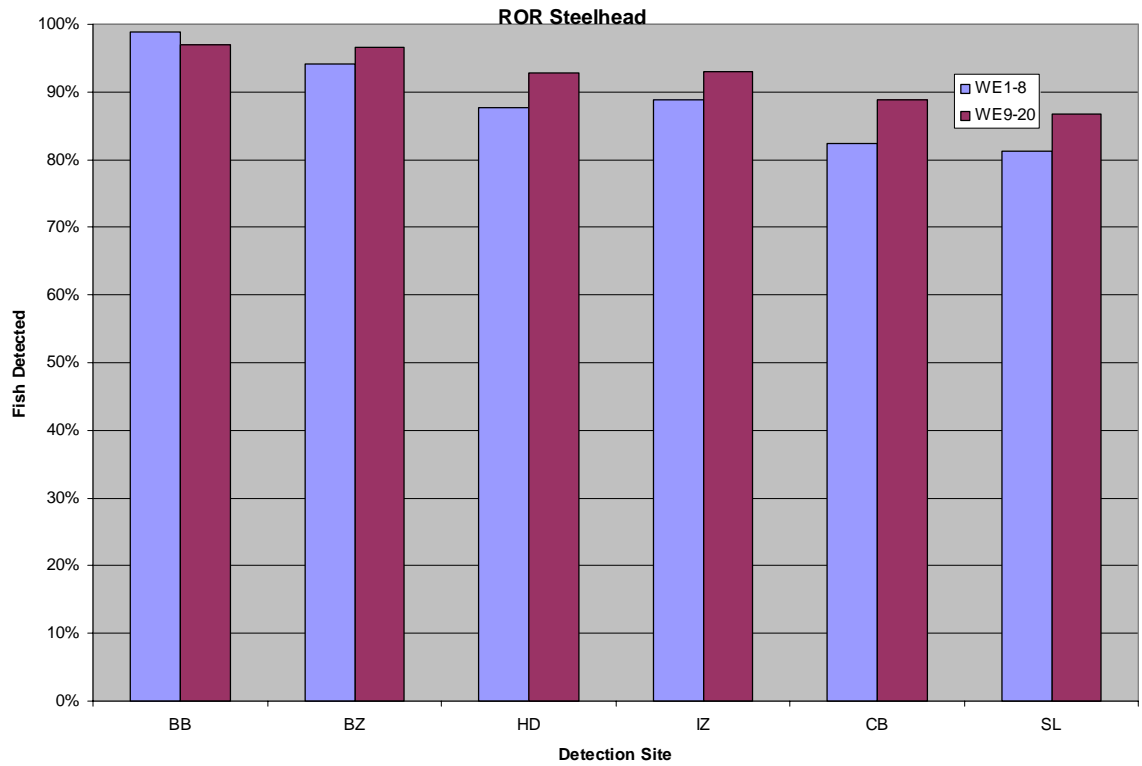


Figure 4. Percent detection rates at reservoir detection sites comparing acoustic tagged Wells releases groups 1-8 with 9-20 for A) hatchery steelhead; B) ROR steelhead (spring 2005).

#### 5) Steelhead residualization

Past studies have indicated that a large portion of steelhead can residualize in reservoirs. Peven and Hays (1989) used the Peterson Mark-recapture method to estimate total number of steelhead smolts migrating past Rock Island Dam in 1986. Their data indicated that 17% of the smolts released from hatcheries that year did not migrate. This may be an explanatory mechanism reflected in the survival indices based on hatchery fish newly released from a hatchery.

6) H steelhead that are “forced” released have lower survival than volitionally released fish.

Townsend and Skalski (2005) showed that steelhead that are “forced” from the hatchery consistently survived at lower rates than those that volitionally left the hatchery. Since H steelhead used in survival studies are extracted from the hatchery population at large, it is reasonable to assume that there are individuals within that population that may not be ready to migrate (as shown from data above). If fish do not migrate after being tagged, they will be counted as mortality, when mortality may not have occurred. It is plausible to expect that ROR (that may have expressed any latent mortality post release, and may have a higher degree of smoltification) fish should be more similar to volitionally released hatchery fish, and be more representative of mortality that is occurring for the whole population.

#### 7) H steelhead used for PIT tag study

PIT tagged fish, by virtue of the length of time they are migrating in the river prior to detection, have also expressed any post-release effects of mortality of lack of smoltification. However, many of the survival estimates per release group suggested that the “control” group – released downstream of RR – were either surviving at a lower rate, or not migrating, compared to the “test” group released downstream of Wells (Figure 5). Differential mortality seems unlikely, and the RR release group may have been expressing their lack of migrational urge after the two groups mixed (the WLS release group had already expressed it). This would explain why the PIT tag estimate appears biased high in 2005.

Estimated Project Survival of Paired-Released PIT tagged Steelhead for RR

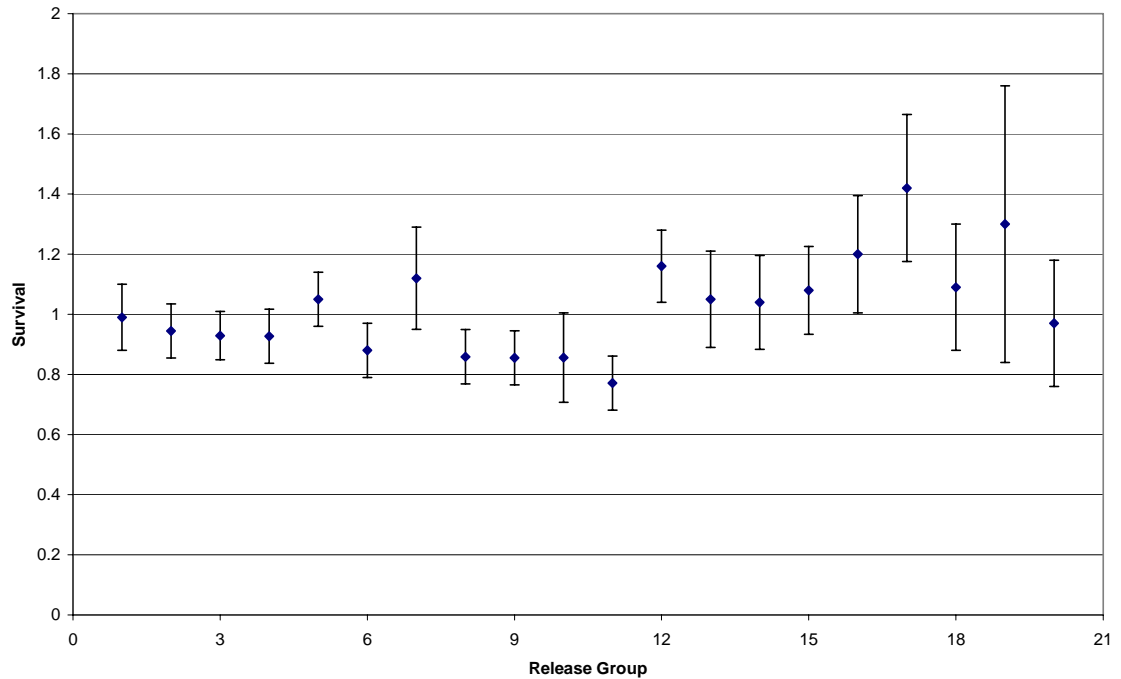


Figure 5. Estimated Project survival for hatchery-reared PIT tagged steelhead per release group

**Conclusion:**

Based on the above information we conclude that:

*The hatchery fish used in this study were not representative of the population at large and performed differently than acoustic tagged ROR fish or PIT tagged H fish, as evidenced by condition factor, travel time and detection/survival rates.*

*We therefore recommend that hatchery steelhead should not be used with active tags to estimate survival, and that only acoustic tagged ROR fish be used for this purpose for both Rocky Reach and Rock Island e.*

**Attachment B**

<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Steve Hays	Chelan PUD
Jerry Marco *	Colville Tribes
Shane Bickford *	Douglas PUD
Rick Klinge	Douglas PUD
Dick Nason	DNC
Curt Dodson	Grant PUD
Ritchie Graves *	NMFS
Brian Cates *	USFWS
Carmen Andonaegui *	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Chuck Peven, Rick Klinge, Bill Towey, Dick Nason

**Date:** December 1, 2005

**Re:** Final Minutes of October 17, 2005 HCP Coordinating Committees Meeting

---

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Chelan PUD Auditorium in Wenatchee, Washington, on October 17, 2005, from 11:30 am to 3:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final September 27 Meeting Minutes to the Coordinating Committees by email [sent October 18, 2005] (Item I).
- Shaun Seaman will provide the Rock Island Rehabilitation presentation to Ali Wick for distribution to the Committees (Item II).
- Shaun Seaman will send the revised Statement of Agreement for Appropriate Tag Methodologies to Ali Wick for distribution to the Committees (Item IV).
- Shaun Seaman will send the revised Statement of Agreement for the Use of Acoustic Tag Run-of-River Steelhead Survival Study Results for Phase Designation at Rocky Reach and Rock Island Dams to Ali Wick for distribution to the Committees (Item V).
- Shaun Seaman provided a table summarizing the results of the 2005 Rock Island and Rocky Reach survival studies. Based on Committees comments, Seaman will revise the table to include both the survival estimate and the confidence interval, and include information on flows.
- Shaun Seaman summarized the results of Rocky Reach 2005 fish spill and provided the Committees with a written summary (Attachment C; Item VII-C).



- Chuck Peven agreed to provide the Committees with additional background information and justification for using estimates of Fish Passage Efficiency (FPE) to estimate dam passage survival rates for subyearling Chinook at Rocky Reach Dam (Item VIII-A).
- Mike Schiewe will prepare a preliminary plan for the next Mid-Columbia Forum to be held in March 2006 (Item VIII-C).

## **DECISION SUMMARY**

- The Coordinating Committees approved the Statement of Agreement for Appropriate Tag Methodologies, subject to the revisions discussed at this meeting (Item IV).
- The Coordinating Committees approved the Statement of Agreement for the Use of Acoustic Tag Run-of-River Steelhead Survival Study Results for Phase Designation at Rocky Reach and Rock Island Dams, subject to the revisions discussed at this meeting (Item V).

### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the September 27 Meeting Minutes. The Meeting Minutes were approved. Ali Wick will send out final Meeting Minutes by email [sent October 18, 2005]. The minutes from the September 30 Conference Call were approved with minor amendments and Ali Wick will send out final Call Minutes by email [sent October 18, 2005].

### **II Rock Island Rehabilitation Presentation**

Brett Bickford provided a presentation on the modernization of Rock Island Dam Units B5 to B10 that will be completed to increase efficiency at the Dam. This design includes changes to stay vanes, wicket gates, turbine runners, horizontal flow vanes, and the draft tube. Chelan PUD plans to begin construction in August 2006. Shaun Seaman will provide this presentation to Ali Wick for distribution to the Committees.

### **III Tributary and Hatchery Committees Update (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that the Tributary Committees have received 29 applications for funding from the General Fund and several applications for the Small Projects Fund. The Tributary Committee is currently evaluating these proposals.

Mike Schiewe updated the Coordinating Committees that the Hatchery Committees will be meeting subsequent to this meeting, so there is no update for today's meeting.

### **IV DECISION POINT: Tagging Methodology (Shaun Seaman)**

Shaun Seaman introduced the Statement of Agreement for an updated version of the Appropriate Tag Methodologies statement (originally approved by the Committees on January 25, 2004); Committees members suggested several revisions, including 1) referencing a revised survival study summary document prepared by Chuck Peven (Attachment B), 2) the addition of a footnote indicating that the agreement was subject to revision if new technology became available for estimating dam passage survival in the future, and 3) a clarifying statement that the acoustic tag method was accepted for steelhead after side-by-side Passive Integrated Transponder (PIT) and acoustic tag studies in 2005 at Rocky Reach Dam. In considering this Statement of Agreement, Committees members reviewed the survival estimates for the various tagging methods for steelhead at Rocky Reach Dam: Run-of-River Acoustic tagged-fish: 93.0 (1.4) %; Hatchery Acoustic tagged fish: 87.0 (1.9) %; Hatchery PIT-tagged fish: 99.0 (3.1) %. Shaun Seaman will revise the text and will send the Statement to Ali Wick for distribution to the Committees. The Committees approved the Statement subject to these revisions.

### **V DECISION POINT: Steelhead and Phase Designation (Shaun Seaman)**

Shaun Seaman introduced the Statement of Agreement for the Use of Acoustic Tag Run-of-River Steelhead Survival Study Results for Phase Designation at Rocky Reach and Rock Island Dams. Ritchie Graves commented that some background as to why this statement is up for approval should be provided in this document. Shaun Seaman will revise the text to reflect this and other comments, and will send the Statement to Ali Wick for distribution to the Committees. The revisions will include references to the meeting minutes for the September 30 conference call and a revised summary of survival study results for steelhead

at Rock Island and Rocky Reach Dams (prepared by Chuck Peven). The Committees approved the Statement subject to these revisions.

## **VI Updates: Douglas PUD (Rick Klinge)**

Rick Klinge verified that there are no new updates for this month.

## **VII Updates: Chelan PUD (Shaun Seaman and Chuck Peven)**

### *A. Wenatchee Watershed Planning Unit Meeting*

Chuck Peven updated the Committees that the Wenatchee Watershed Planning Unit had met to discuss White River Chinook supplementation (650,000 spring Chinook).

### *B. Initial Survival Study Results*

Shaun Seaman provided a table summarizing the results of the 2005 Rock Island and Rocky Reach survival studies. Based on Committees comments, Seaman will revise the table to include both the survival estimate and the confidence interval, and include information on flows. The detailed report will be coming out from Chelan PUD soon.

### *C. 2005 Spill Results*

Shaun Seaman summarized the results of 2005 Rocky Reach fish spill and provided the Committees with a written summary (Attachment C).

## **VIII Other Items**

### *A. Subyearling Chinook Tagging Approach for Phase Designation*

Shaun Seaman introduced a proposal to use results of hydroacoustically-determined FPE as a surrogate for directly estimating survival rates of subyearling Chinook using PIT or acoustic tags. The proposed approach is based on the results of 2003 studies with yearling Chinook at Rocky Reach Dam that suggested that a 47 percent FPE could be equated to a dam passage survival rate of 93.5 percent. The proposal was to measure FPE for one or more years and use these data for phase determination. Several Committee members had questions about this approach, and Chelan PUD agreed to provide additional background information and justification regarding the linkage between FPE and survival study results; Chuck Peven will develop some text describing this for consideration by the Committees.

*B. Coho Studies*

The Rock Island Anadromous Fish Agreement and Habitat Conservation Plan states that “hatchery compensation for coho will be assessed in 2005 following the development of a continuing coho hatchery program and/or the establishment of a naturally reproducing population of coho (by an entity other than the District and occurring outside this Agreement). The Hatchery Committee shall determine whether a hatchery program and/or naturally reproducing population of coho exist.” Because the Yakama Nation will not know whether long-term funding will be available for its coho program until sometime in 2006, the Hatchery Committee will likely defer a decision on whether a hatchery program exists until 2006. Nonetheless, Shaun Seaman suggested that the Committees begin to consider what potential fish passage studies would be required if it was decided that a hatchery coho program and/or a self-sustaining coho population existed. Ritchie Graves conveyed that the primary obligation of the National Marine Fisheries Service (NMFS) is in regards to Endangered Species Act-listed species, but that NMFS supports the reintroduction of coho if there is no effect on listed species. Graves also suggested that Chelan might consider the addition of coho to their current plans to conduct acoustic tag studies with other plan species (i.e., steelhead) as a way to lower costs. Seaman indicated that Chelan PUD would consider this, but felt the need for additional Committee discussion before any decision would be made.

*C. Mid-Columbia Forum Options*

Mike Schiewe revisited this topic regarding the Mid-Columbia Forum, which was discussed by the Committees at previous meetings. Following these past meetings, Committees members were to have discussed the proposed format (morning presentations, followed by afternoon breakout sessions) with their respective agencies. Committees members agreed that this format was acceptable to their agencies and Mike Schiewe will follow up to develop more detailed plans. The proposed timing for the next Forum would be March 2006.

*D. Entiat Watershed Planning Unit Meeting*

Chuck Peven gave an overview of the Entiat Watershed Planning Unit meeting and commented that the meeting was successful in conveying the important separation between

the issue of beginning a fishery in the Entiat River (a Washington Department of Fish and Wildlife topic) from the issue of considering the Entiat as a reference stream (an HCP topic).

E. *Next Meeting*

The next meeting will be held on November 30 in SeaTac.

**List of Attachments**

Attachment A – List of Attendees

Attachment B – Path Forward for Steelhead Studies to Estimate Survival for Rocky Reach and Rock Island

Attachment C – Rocky Reach 2005 Chelan PUD Fish Spill Program Results

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Bill Towey	Colville Tribes
Dick Nason	DNC
Rick Klinge *	Douglas PUD
Ritchie Graves *	NMFS
Brian Cates *	USFWS
Carmen Andonaegui *	WDFW

\* Denotes Coordinating Committees member

**ATTACHMENT B  
PATH FORWARD FOR STEELHEAD STUDIES TO ESTIMATE  
SURVIVAL FOR ROCKY REACH AND ROCK ISLAND**

**(included in Final Minutes of September 30, 2005 Rocky Reach  
and Rock Island HCP Coordinating Committees Conference Call)**

**ATTACHMENT C**  
**ROCKY REACH 2005 CHELAN PUD FISH SPILL PROGRAM**  
**RESULTS**



## Rocky Reach 2005 Chelan PUD Fish Spill Program Results

### **Yearling chinook & steelhead smolts:**

No spill occurred for yearling chinook or steelhead smolts in 2005; however the juvenile bypass was operating during the entire outmigration of both species.

### **Sockeye smolts (including on/off spill test\*\*):**

Spill target: 24% of daily average river flow  
Spill start: May 10, 1300 hours  
Spill end: June 9, midnight  
On/Off spill study: May 17 - June 9 midnight  
Total spill days: 18.5 days  
Final spill % (18.5 days): **24.02%**

Percent of sockeye smolts spilled for: **70.20% of run**  
(Approx. 12.6% of run passed during no spill test days)

Foregone generation: **86,297 Mwh**

\*\* The Rocky Reach spill program for sockeye smolts was unique this year due to the 24 day "on/off" spill study that took place from May 17 through June 9. The purpose of the experiment was to evaluate how many (more) sockeye might utilize the surface collector and bypass system at Rocky Reach when spill is off, compared to when spill is on. For the test, spill at 24% of daily average river flow was turned on for 12 days, and turned off for 12 days. Because of the "no spill" test days, Rocky Reach spilled for fewer days (**a total of 18.5 days**) during the sockeye outmigration in 2005. Approximately 99.2% of the sockeye smolts passed in only 25 days this year. In 2004, Rocky Reach spilled 31.5 days at 24% for sockeye. Study results from the spill experiment, which utilized acoustic tagged sockeye smolts, will be available soon.

### **Subyearling chinook smolts:**

Spill % target: 9% of daily average river flow  
Spill Start: June 10, 0001 hours  
Spill End: August 15, midnight  
Spill Duration: 67.0 days  
Final spill %: **9.00%**

Percent of subyearling smolts spilled for: **90.61%**  
(Approx. 8% of sub chinook smolts passed during no spill sockeye test)

Foregone generation: **122,085 Mwh**

### **2005 Rocky Reach Fish Spill Totals**

Total foregone generation: **208,543 Mwh**

## Rock Island 2005 Chelan PUD Fish Spill Program Results

### Spring Fish Spill

#### **Yearling chinook:**

Spill Start: April 17, 0001 hours  
Spill End: June 9, midnight  
Spill Duration: 54 days  
Spill % target: 20% of daily average river flow  
End of Season Spill % actual: **19.99%** of river flow

Observed passage (RealTime) at spill start 4/17: 0.11%  
Final observed passage (RealTime) at spill end 8/9: 100.0%  
Percent of yearling chinook spilled for: **99.89% of run**

#### **Sockeye:**

Spill Start: April 17, 0000  
Spill End: June 9, midnight  
Spill Duration: 54 days  
Spill % target: 20% of daily average river flow  
End of season Spill % actual: **19.99%** of river flow

Observed passage (RealTime) at spill start 4/17: 0.15%  
Final observed passage (RealTime) at spill end 8/9: 98.39%  
Percent of sockeye smolts spilled for: **98.24% of run**

#### **Steelhead:**

Spill Start: April 17, 0000  
Spill End: August 4, midnight  
Spill Duration: 109 days  
Spill % target: 20% of daily average river flow  
End of season spill % actual: **19.99%** of river flow

Observed passage (RealTime) at spill start 4/17: 0.05%  
Final observed passage (RealTime) at spill end 8/9: 100.00%  
Percent of steelhead smolts spilled for: **99.95% of run**

### **RI Spring Spill Totals**

Foregone generation: **105,915 Mwh**

## RI Summer Fish Spill

### Subyearling chinook:

Spill Start: 6/1, 0000 hours

Spill End: 8/9, 1600 hours

Spill Duration: 69.6 days

Spill % target: 20% of daily average river flow

End of season spill % actual: **19.99%** of river flow

Observed passage (RealTime) at spill start 6/1: 0 %

Final observed passage (RealTime) at end spill 8/9: 98.36%

Percentage of subyearling chinook spilled for: **98.36% of run**

### RI Summer Spill Totals

Foregone generation: **128,414 Mwh**

### 2005 Rock Island Fish Spill Totals

Total forgone generation: **234,329 Mwh**



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Seattle, Washington 98101  
Phone 206.287.9130  
Fax 206.287.9131

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Chuck Peven, Rick Klinge, Dick Nason

**Date:** December 15, 2005

**Re:** Final Minutes of November 30, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Hotel Gateway in SeaTac, Washington, on November 30, 2005, from 9:30 am to 2:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final October 17 Meeting Minutes to the Coordinating Committees by email (Item I).
- Chuck Peven will develop an expanded study plan for the strategy to determine sources of mortality for sockeye salmon passing Rocky Reach Dam, and will provide this for Committee review at the January 2006 meeting (Item IV-A).
- Ali Wick will provide the final 2005 Chelan PUD acoustic-tag survival study results document to the Committees (Item IV-B).
- Tracy Steig will provide the presentation on fish use of the surface collector at Rocky Reach Dam to Ali Wick for distribution to the Committees by email (Item IV-C).
- Shaun Seaman will provide Ali Wick with the document outlining upcoming fishway outages at Rocky Reach and Rock Island for distribution to the committees (Item IV-D).
- Committees members agreed to discuss with their respective entities the idea of holding a workshop to review progress implementing the HCP hatchery programs; members agreed to be prepared to discuss a potential workshop at the next meeting (Item V).

## **DECISION SUMMARY**

- The Coordinating Committees approved the Statement of Agreement for sockeye phase designation (Item II).
- The Committees agreed that Chelan PUD can progress with developing the study proposals for determining sources of mortality for sockeye passing through Rocky Reach (Item IV-A).

### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the October 17 Meeting Minutes. The Meeting Minutes were approved with minor amendments. Ali Wick will send out final Meeting Minutes by email.

### **II DECISION POINT: Sockeye Phase Designation**

Shaun Seaman provided a proposed Statement of Agreement for sockeye phase designation. This agreement proposes that sockeye would be in Phase II, Additional Tools. The Committees approved this agreement (Attachment B).

### **III Tributary and Hatchery Committees Update (Mike Schiewe)**

Mike Schiewe updated the Coordinating Committees that the Tributary Committees are in final discussions regarding potential projects. Funding decisions will be made in December, similar to the schedule of the Salmon Recovery Funding Board (SRFB). The Tributary Committees will be announcing funding decisions to project proponents in January 2006. The discussions regarding ownership of the Tributary Fund are continuing among the HCP signatories, and a final determination has not been made.

Mike Schiewe updated the Coordinating Committees that the Hatchery Committees met at the Northwest Fisheries Science Center (NWFSC) on November 15 so that several of the Committees members could attend the Bacterial Kidney Disease (BKD) workshop held at the Museum of History and Industry (MOHAI) the day following the meeting. At the meeting, the Committees discussed the following:

- The outbreak and treatment progress of a recent fungal infection at Chiwawa Rearing Ponds
- Recent developments and meetings regarding the Chewuch weir
- Completion of coho trapping at Wells Hatchery
- Yakama Nation's timeline for submitting long-term coho plan to the Northwest Power Planning Council
- Coho decision deferral
- Intake screens at Wells Hatchery
- Reports on water management tools for sockeye in the Okanagan
- Decision Rules for Chelan and Douglas PUD Monitoring & Evaluation (M&E) Plans
- Draft 2005 Wells Action Plan for hatcheries
- Update of 2005/2006 Feasibility Studies and Planned Work for Chelan PUD
- Chiwawa water supply and proposed pilot tests for interim operation
- BKD White Paper progress

#### **IV Updates: Chelan PUD (Shaun Seaman)**

##### *A. Sockeye Studies – Rocky Reach*

Shaun Seaman updated the Committees that Chuck Peven has been working with the Fish Bypass Optimization Team at Chelan PUD to prepare a strategy to determine sources of mortality for sockeye passing through Rocky Reach reservoir. Peven presented a draft of a proposal (November 2005) for research to investigate this topic. The Committees discussed various points of the proposed document, and Chelan PUD asked for Committee agreement on developing the studies outlined in the document (including identifying studies which should not be considered further). The Committees agreed that none of the proposed studies should be dropped at this time, and that Chelan PUD can progress with developing the study proposals. Chelan PUD will continue to develop these plans and will provide an expanded study plan for Committee review at the January 2006 meeting.

##### *B. Update on 2005 Chelan PUD Acoustic-tag Survival Studies*

Shaun Seaman provided the Committees with a document containing the final results of the 2005 Chelan PUD acoustic-tag survival studies. Seaman clarified that no value in this document had significantly changed from what the Committees have previously seen that

would change previous phase designation or 2006 plans or decisions. Ali Wick will provide this document to the Committees.

*C. Fish Use of Rocky Reach Surface Collector during Spill On-Off Tests*

Tracey Steig provided a presentation on juvenile Chinook, steelhead, and sockeye use of the surface collector at Rocky Reach Dam. Results showed the abundance and percentages of fish migrating through the various powerhouses during spill on-off periods. Steig will provide this presentation to Ali Wick for distribution to the Committees by email.

*D. Rocky Reach and Rock Island Fishway Maintenance Outages*

Shaun Seaman provided a document outlining the upcoming maintenance schedule and fishway outages. Seaman will provide this to Ali Wick electronically for distribution to the Committees.

*E. Workshop on Studies*

Shaun Seaman brought up the idea of the Coordinating Committees hosting a “survival study workshop” to help bring the newer Committees member up to speed on state-of-the-art methods used to estimate project survivals at the Mid-Columbia dams. The Committees agreed that this would be a very useful session, not only for the new members but also the full memberships of the Coordinating and Hatchery Committees, as well as Grant PUD, if interested. It was tentatively agreed that this session should be held in association with the January meeting.

**V Hatchery Programs and Public Process Implications (Mike Schiewe)**

Mike Schiewe noted that several of the recent problems encountered while implementing the HCP Hatchery programs (i.e., public disagreements regarding the Chewuch River and White River weirs, controversy over the designation of the Entiat Watershed as a “reference stream” for the purposes of M&E) suggest the value of a workshop or working session to focus on “what’s working and what’s not working.” Schiewe noted that, although such a workshop may not lead to any changes, it is always a healthy practice to periodically revisit and evaluate programs and goals, particularly when tensions surface that affect outcomes. Committees members agreed to

share this idea with their respective organizations, and will be prepared to discuss a potential workshop (to be held in February) at the next meeting.

## **VI Other Items**

### *A. Deferral Memo for Coho Mitigation*

Mike Schiewe updated the Committees that the Hatchery Committees are discussing deferring the determination regarding a coho hatchery program and/or naturally sustaining population, as required by the Rock Island HCP, until 2006, and would likely be bringing a request to the Coordinating Committee for concurrence on the schedule change. Schiewe provided a draft of the coho mitigation deferral memorandum, which will be finalized by the Hatchery Committees by email after this meeting.

### *E. Next Meeting*

The next meeting will have a different start time: it will be held on December 13 as planned, at Chelan PUD in Wenatchee from 12:00 noon to 5:00 pm.

## **List of Attachments**

Attachment A – List of Attendees

Attachment B – Final Statement of Agreement for Sockeye Phase Designation



**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco	Colville Tribes (by conference call)
Dick Nason	DNC
Rick Klinge *	Douglas PUD
Bruce Ransom	Hydroacoustic Technology, Inc.
Tracey Steig	Hydroacoustic Technology, Inc.
Ritchie Graves *	NMFS (by conference call)
Bryan Nordlund	NMFS
Brian Cates *	USFWS
John Skalski	University of Washington

\* Denotes Coordinating Committees member

**ATTACHMENT B**  
**FINAL STATEMENT OF AGREEMENT FOR SOCKEYE PHASE**  
**DESIGNATION**

**Statement of Agreement**  
**Sockeye Salmon Phase Designation**  
**November 30, 2005**  
**Rocky Reach and Rock Island HCP Coordinating Committees**

*Rock Island*

The third year of project survival studies for Rock Island Project will be conducted in 2006 and if it is a valid study, the HCP CC will make a phase designation after the results of the study are finalized.

*Rocky Reach*

For Rocky Reach Project, the Coordinating Committee has determined, based on Phase I testing, that sockeye are now in Phase II, Additional Tools. Two years of study results indicate another year is not necessary to make this designation. The HCP CC agrees that at this time additional research is required before measures can be identified and implemented to increase survival of sockeye salmon. Once the research is complete, the HCP CC will work collaboratively to identify additional measures (if needed), to improve survival. The HCP CC will also determine when phase designation testing will resume to measure the appropriate survival standard.

**Background**

In 2004 and 2005, studies were conducted with run-of-the-river sockeye collected at Rocky Reach Dam to estimate whether the District was meeting the 93% project survival standard required in the HCP. For Rock Island Project, in both years the estimated survival was above the HCP standard. For Rocky Reach Project, both years have been below 90%, thus making it impossible in the third year to reach the 93% 3-year average.

The District proposes to collect additional information both in the reservoir and near the dam to investigate where mortality may be occurring and whether there are alternatives that could increase passage through the surface collector, or reduce mortality factors throughout the Project (reservoir and dam), thus increasing project survival.

Additional detail outlining the information the District is proposing to collect, why it is important, and potential strategies to collect it are found in the attached document titled *Strategy to Determine Sources of Mortality for Sockeye Salmon Passing Through Rocky Reach Project*.



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Coordinating Committees

**From:** Michael Schiewe, Chair, HCP Coordinating Committees

**CC:** Ali Wick, Dick Nason, Chuck Peven, and Bryan Nordlund

**Date:** January 25, 2006

**Re:** Final Minutes of December 13, 2005 HCP Coordinating Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at Chelan PUD in Wenatchee, Washington, on December 13, 2005, from 12:00 noon to 2:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final November 30 Meeting Minutes to the Coordinating Committees by email (Item I).
- Ali will forward to the group the dates for upcoming Hatchery Committees and Coordinating Committees meetings for 2006 (Item I).
- Schiewe will draft a prospectus and look for a potential date for a workshop to review progress toward implementing the hatchery and tributary programs (including their coordination) with the HCP Committees, Grant PUD, and the Priest Rapids Coordinating Committee (PRCC) (Item IV).
- Shaun Seaman will provide a complete list of upcoming reports and proposed schedules for the Committees to Ali Wick for the Committees' information and planning (Item V-A).
- Chelan PUD will provide a 2006 Rocky Reach Fish Bypass Evaluation Study Plan to the Committees for the January meeting (Item V-C).
- Mike Schiewe will check with Denny Rohr on scheduling a survival study and tagging workshop for the Coordinating Committees and the PRCC (Item V-D).

- Rick Klinge will provide a complete list of upcoming reports and proposed schedules for the Committees to Ali Wick for the Committees' information and planning (Item VI).

## **DECISION SUMMARY**

- The Rock Island Coordinating Committee approved the Final Statement of Agreement for Deferral of Coho Determination for the Rock Island HCP, dated December 12, 2005.

### **I Meeting Welcome (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the November 30 Meeting Minutes. The Meeting Minutes were approved with minor amendments. Ali Wick will send out final Meeting Minutes by email, and will also send out a list of the future meeting dates for 2006. Attendees to this meeting are listed in Attachment A to these Meeting Minutes.

### **II Hatchery and Tributary Committees Update (Mike Schiewe)**

Mike Schiewe updated the group that the Hatchery Committees will next meet tomorrow, and there is no update at this time. Shaun Seaman and Chuck Peven updated the group that construction is currently ongoing for the pilot water testing at Chiwawa Rearing Ponds; testing is expected to begin the week of December 19.

Schiewe updated the group that the Tributary Committees are currently considering projects and that selection will occur at the January Tributary Committees meeting. In addition, the Tributary Committees will be meeting with agency and PUD attorneys in January to discuss issues related to the ownership of Plan Species Accounts. The Tributary Committees will also be meeting with the Grant PUD Habitat Committee to develop a coordinated approach for the next funding cycle.

### **III DECISION POINT: Approval of Schedule for Rock Island Coho Determination**

Mike Schiewe updated the group that the Rock Island Hatchery Committee has agreed to defer a decision on whether there is a continuing coho salmon hatchery program and/or a naturally reproducing population of coho salmon above Rock Island Dam until calendar

year 2006. The Rock Island Hatchery Committee is requesting that the Rock Island Coordinating Committee approve this change of schedule. Shaun Seaman commented that Chelan PUD was agreeing to the Statement of Agreement, but supplied the following comments regarding the Rock Island Hatchery Committee's December 6, 2005 Statement of Agreement:

- Chelan PUD (the District) supports the Statement of Agreement as written, but would like to clarify that the District does not intend to defer its decision under Section 8.4.3. of the Rock Island HCP beyond 2006. Upon approval of the Statement of Agreement, the District's position is that decision will be required in 2006.
- In approving the Statement of Agreement, it is important to recognize that the District's hatchery compensation commitments are only triggered by a decision of the Hatchery Committee that a coho hatchery program and/or naturally reproducing population of coho exists.
- The HCP was developed pursuant to Section 10 of the Endangered Species Act ("ESA") to provide incidental take protection for listed Plan Species. The Hatchery Committee should ensure that any coho reintroduction program supported by the HCP is implemented in a manner consistent with the ESA and the continued protection of currently listed Plan Species.

Bob Rose asked why Chelan PUD wanted to go on record now stating that they were not willing to consider any further deferral of the coho determination. Seaman responded that this was a business decision and that Chelan PUD is not willing to continue deferring a decision because of funding issues and planning conflicts that are created by various schedules. He further stated that continuing to defer this determination was impacting Chelan PUD efforts to plan an orderly implementation of HCP hatchery programs. The Rock Island Coordinating Committee members thanked Chelan PUD for clarifying Chelan PUD's position on this matter, and reserved the right to maintain their respective agencies' opinions on the matter into the future. The Committees recognized that if it appears that processes outside the Rock Island HCP were to make the 2006 deadline problematic, any continued deferral would be addressed as a group in the Rock Island Coordinating Committee. The Rock Island Coordinating Committee approved the Final Statement of Agreement dated December 12, 2005 (Attachment B).

In a follow up discussion, Bob Rose asked Bryan Nordlund for an update on the status of ESA permitting for the coho reintroduction project. Nordlund indicated that Mike Delarm could discuss this at the HCP Hatchery Committees meeting tomorrow (December 14).

#### **IV Hatchery Programs and Public Process Implications (Mike Schiewe)**

Mike Schiewe introduced the idea of the Coordinating Committees hosting a workshop for Coordinating, Hatchery, and Tributary Committees members; Grant PUD; and the PRCC to review goals and progress in implementing the HCP Hatchery Program; a focus of some of the discussion could include the need for more and better public outreach and involvement. The idea for this workshop was previously brought up in the Hatchery Committees. Carmen Andonaegui commented that Washington Department of Fish and Wildlife (WDFW) will be having an internal discussion in January on these same issues and would likely be supportive of this workshop. Rick Klinge commented that Douglas PUD would be supportive of this workshop, reminding the group that a review of HCP progress is also scheduled for the 5-year mark from the date of HCP signing (although it was later determined that the 5-year timeframe only covered the Hatchery Monitoring and Evaluation [M&E] Plan). The rest of the Committees members were supportive of this workshop. In anticipation of Committee agreement, and to facilitate scheduling, Schiewe will draft a prospectus and begin discussing a potential date for the workshop with Denny Rohr, who facilitates the PRCC meetings.

Bob Rose commented that one of the Yakama Nation's concerns is that the public may have very little context for the actions that are required under the HCP and other habitat processes in the HCP geographic area, and that the upcoming Mid-Columbia Forum could be a good pivot point for providing some of this context.

#### **V Updates: Chelan PUD (Shaun Seaman)**

##### *A. Upcoming Reports*

Shaun Seaman updated the group that the Draft 2005 Fish Bypass Evaluation Report has been distributed to them by email. Also, the report on study results from John Skalski will be distributed in mid-January, and the 2006 Fish Bypass Evaluation Study Plan will be

distributed in the next few weeks. Additional upcoming reports for review by the group include the following:

- Spill Program Report
- Bull Trout Report
- Spill Plans for 2006
- Study Plans for 2006
- Sockeye Studies
- Survival Study Plan
- Bypass Operations Report, including results of studies (redundant to the Federal Energy Regulatory Commission (FERC) reporting requirement for the HCP).
- Annual Reports (Rocky Reach and Rock Island - to be submitted to the Coordinating Committees jointly with Douglas PUD).

Seaman will provide a complete list of these reports and proposed schedules for approval to Ali Wick for the Committees' information and planning purposes.

#### *B. Over-Under Gate Study Results*

Shaun Seaman updated the group that Chelan PUD has reviewed the results of the over-under gate tests at Rock Island and plans to install two additional over-under gates in 2006-2007.

#### *C. Operating Plan*

Shaun Seaman updated the group that Chelan PUD will be providing a 2006 Operating Plan to them for the January meeting; this will also be provided to the Policy Committees.

#### *D. Tagging Workshop*

Shaun Seaman introduced the idea of Hydroacoustics Technology, Inc. (HTI), and Columbia Basin Research presenting a refresher workshop for the Coordinating Committees and the PRCC on acoustic tag studies and survival study methodology, respectively. John Skalski or a representative from his staff would provide the latter. This meeting is tentatively planned for a half or full day in SeaTac on January 24, but Mike Schiewe will confirm with Denny Rohr.



## **VI Updates: Douglas PUD (Rick Klinge)**

Rick Klinge updated the Committees on the following Douglas PUD items:

- The bids for construction of the Wells Hatchery screens are due December 27.
- Douglas PUD will be providing a report on the Draft Bypass Operating Plan for the next meeting.
- Klinge provided a summary of the Wells Dam East Ladder Maintenance and Fish Salvage.
- Klinge will be providing a complete list of upcoming reports and proposed schedules for the Committees to Ali Wick for the Committees' information and planning.

## **VII Other Items (Mike Schiewe)**

The next meeting will be held on Tuesday, January 24 in SeaTac.

### **List of Attachments**

Attachment A—List of Attendees

Attachment B – Final Statement of Agreement for Deferral of Coho Determination for the Rock Island HCP

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco	Colville Tribes
Dick Nason	DNC
Rick Klinge *	Douglas PUD
Bryan Nordlund	NMFS (by conference call)
Brian Cates *	USFWS
Carmen Andonaegui *	WDFW
Bob Rose *	Yakama Nation

\* Denotes Coordinating Committees member

**ATTACHMENT B**  
**FINAL STATEMENT OF AGREEMENT FOR DEFERRAL OF COHO**  
**DETERMINATION FOR THE ROCK ISLAND HCP**

FINAL  
December 6, 2005

**STATEMENT OF AGREEMENT**  
**For deferral of coho determination for the Rock Island HCP**

The Rock Island Hatchery Committee has agreed to defer a decision on whether there is a continuing coho salmon hatchery program and/or a naturally reproducing population of coho salmon above Rock Island Dam (developed by an entity other than the District and occurring outside of the HCP) until calendar year 2006. Based on this agreement the Hatchery Committee requests that the Rock Island Coordinating Committee approve this change of schedule.

*Background*

The Rock Island HCP requires that the Hatchery Committee “determine whether a hatchery program and/or naturally reproducing population of coho exist,” during the calendar year 2005. The HCP further stipulates that the program or population must have been developed by an entity other than Chelan PUD and occurring outside the HCP agreement. Similar requirements are included in the Rocky Reach and Wells HCPs (regarding coho programs or populations above the Rocky Reach and Wells projects, respectively), but the determinations are not required until calendar year 2006.

According to the HCPs, if the Committees determine that such a program or population exists, then the Hatchery Committees shall (1) determine the most appropriate means to satisfy the hatchery compensation requirement for coho, and (2) the Districts shall have the next juvenile migration to adjust juvenile protections measures to accommodate coho salmon. There after the Coordinating Committees shall determine the number of valid survival studies (not to exceed three years) to make a juvenile phase determination.

The Yakama Nation (YN) is currently evaluating the feasibility of establishing such a coho salmon population and/or hatchery program above Rock Island Dam. Based on YN findings to date, they are preparing a request for long-term funding from the Bonneville Power Administration (BPA) through the Northwest Power Planning and Conservation Council’s (Council) Fish and Wildlife Program. However, as of this date a formal request has not been presented to the Council, and it is unlikely that even if they did submit it this calendar year that the Council would act on it before the end of 2005.

Because a long-term commitment by the Council and BPA to fund this program will be a critical consideration in making this determination, and because similar decisions are required under the Wells and Rocky Reach HCPs (due 2006), the Hatchery Committees have agreed to defer the decision until 2006. This deferral will put all three determinations on the same schedule and allow time for a Council decision on funding. The HCPs require that the Coordinating Committees approve adjustments of schedules.

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**APPENDIX B**

**HABITAT CONSERVATION PLAN HATCHERY COMMITTEES  
OPERATING PROTOCOLS AND MEETING MINUTES**

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# **HATCHERY COMMITTEES OPERATING PROCEDURES WELLS, ROCKY REACH, AND ROCK ISLAND HABITAT CONSERVATION PLANS**

(Approved by the Hatchery Committees August 17, 2005)

## **I. PURPOSE**

The Hatchery Committees to the Wells, Rocky Reach, and Rock Island Projects Anadromous Fish Agreements and Habitat Conservation Plans (HCPs) are established to implement the artificial propagation programs as described in the respective HCPs. The Plans provide for a “Hatchery Committee composed of one (1) representative of each Party, provided that for the Wells Project the Power Purchasers may participate as a non-voting observer through a single representative, whom they will designate from time to time.”

The Hatchery Committees are responsible for overseeing development of recommendations for implementation of the hatchery elements of the Plans that the Chelan County and Douglas County Public Utility Districts (PUDs) are responsible for funding. This includes overseeing the implementation of improvements, monitoring and evaluation relevant to the District’s hatchery programs, as identified in the Hatchery Compensation Plan, the Incidental Take Permits, hatchery program operational permits under Section 10 of the ESA, and this Agreement. Hatchery Committees decisions shall be based upon: likelihood of biological success; time required to implement; and cost-effectiveness of solutions. The Hatchery Committees shall also coordinate in-season information sharing and shall discuss unresolved issues.

These Operating Procedures are intended to provide general guidance to members of the Hatchery Committees and to help stakeholders understand the functions of the Committees. It does not supersede any aspects of the Anadromous Fish Agreements and Habitat Conservation Plans for Wells, Rocky Reach, or Rock Island Hydroelectric Projects. Readers should refer to those agreements for an understanding of the specific authority and function of these Committees<sup>1</sup>. These Operating Procedures are subject to periodic review and revision at the discretion of the Hatchery Committees.

## **II. MEMBERSHIP**

The Hatchery Committees have one representative of each signatory party to the Plans. Members of each committee will be required to notify the chair (in written form, email, or in the previous meeting) of their inability to attend a proposed meeting, and their alternate voting member, if so chosen. As of June 2005, the Rock Island and Rocky Reach Committees have the following voting members:

- Kristine Petersen, National Marine Fisheries Service
- Kirk Truscott, Washington Department of Fish and Wildlife

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<sup>1</sup> Please refer to Section 7 of the Rocky Reach and Rock Island HCPs for a description of authorities. For the Wells HCP this is found in Section 8.

- Jerry Marco, Confederated Colville Tribes
- Brian Cates, U. S. Fish and Wildlife Service
- Shaun Seaman, Chelan County Public Utility District
- Tom Scribner, Yakama Nation
- Michael Schiewe, non-voting chairman.

Voting members of the Wells Hatchery Committee are:

- Kristine Petersen, National Marine Fisheries Service
- Kirk Truscott, Washington Department of Fish and Wildlife
- Jerry Marco, Confederated Colville Tribes
- Brian Cates, U. S. Fish and Wildlife Service
- Rick Klinge, Douglas County Public Utility District
- Tom Scribner, Yakama Nation
- Michael Schiewe, non-voting chairman.

Technical staffs supporting the signing parties are allowed to participate in Committee discussions at the discretion of the signing parties.

#### IV. MEETINGS

For purposes of coordination and efficiency, the Committees for each of the HCPs have agreed to routinely meet together. Regular meetings of the Committees will be from 9:00a to 3:00p on the third Wednesday of each month, unless otherwise agreed to by the Committees. Additionally, the Committees may meet whenever requested by any two members following a minimum of ten days advance written notice to all members of the specific Committee.

The Committees Chairman will distribute the meeting notice and preliminary agenda ten days prior to the meeting. The notice and agenda will identify matters to be addressed and voted on during the meeting, and will be accompanied by a short briefing paper and Statement of Agreement prepared by any party requesting a Committee decision. A final agenda will be distributed 5 days prior to the meeting. The agenda will include an agenda item entitled “other matters” to serve as a placeholder for updates and other issues that arose too late to be included on the agenda.

Within a week after the meeting, the chairman will distribute draft notes of the meeting to all Committees members. After a one-week review period by Committees members, the chair will distribute a red-line version of the final meeting notes, based on the comments and corrections provided by Committees members. Final review and approval of the meeting notes will occur at the next regularly scheduled Hatchery Committees meeting.

All draft agendas, draft meeting minutes, and supporting documents (i.e., statements of agreement) will be posted on a secure FTP site that is accessible to Committees members only. Final agendas, final meeting minutes, and other final supporting documents will be posted on the respective HCP websites.

## V. CHAIRPERSON

The Committees shall choose a neutral third party to chair the Committees meetings. The chair is expected to prepare an annual list of understandings based on the results of studies, prepare periodic progress reports, prepare meeting minutes, facilitate meetings, and assist the Committees in making decisions. At least every three years, the Committees shall evaluate the performance of the chair. The chair shall be the official contact person of the Committees to stakeholders. In the event the Committees chairperson is unable to facilitate a scheduled meeting, the HCP Coordinating Committee chairperson or his/her designee shall function as an alternate.

## VI. DECISION-MAKING

The Committees shall act by unanimous vote of those members (or their proxies) present in person or by phone for the vote. Abstention does not prevent a unanimous vote. If a member or its designated alternative cannot be present for an agenda item to be voted upon, the member must notify the chair, who shall delay a vote on an agenda item for up to five business days on specified issue(s) to be addressed in a meeting, or as otherwise agreed to by the Committees. A member may invoke this right only once per delayed item. If the Coordinating Committees cannot reach agreement, then upon request by any Party that issue shall be referred to Dispute Resolution.

## VII. DISPUTE RESOLUTION

As described in the respective HCPs, the Hatchery Committees shall have twenty days within which to resolve a dispute. If at the end of twenty days there is no resolution any Party may request that the dispute be elevated to the Coordinating Committees, which is composed of a representative of each of the Parties. If resolution cannot be achieved by the Coordinating Committees in twenty days, the matter will be elevated to the Policy Committee, which is also composed of a representative of each of the Parties. The Chair of the Coordinating Committees shall chair all meeting of the Policy Committees. The Policy Committees shall have thirty days, following the referral, to convene and consider the dispute. The Chair of the Coordinating Committees shall provide advance written notice of all meetings. The notice shall contain an agenda of all matters to be addressed and voted on during the meeting. The Policy Committees shall act by unanimous vote of those members present in person or by phone. Abstention does not prevent a unanimous vote. If a Party or its designated alternate cannot be present for an agenda item to be voted upon it must notify the Chair of the Coordinating Committees who may delay a vote on the agenda item for up to five-business days. A Party may invoke this right only once per delayed item. If there is no resolution of a matter following its consideration by the Policy Committees, then any Party may pursue any other right they might otherwise have.

If the above process results in a settlement of the dispute then: (1) the Parties shall implement, consistent with the terms of the settlement, all aspects of the settlement that can lawfully be implemented without FERC approval, or the approval of another Federal agency; (2) where FERC or other federal agency approval is needed before some or all of



the settlement can be implemented, all settling Parties shall jointly present the resolution of the dispute to FERC or the appropriate federal agency for approval.



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Bob Rogers, Jim Gray, John Penny, Rick Stilwater, Erich Wolf, Scott Buehn, Ali Wick, Chris Carlson

**Date:** February 17, 2005

**Re:** Final Minutes of January 26, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans (HCP) Hatchery Committees met at the Chelan PUD Fish and Wildlife Building in Wenatchee, Washington on January 26, 2005 from 9:30 am to 2:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Kris Petersen agreed to check on an updated users' guide for the All-H Analyzer Model and will send this to the Committees (Item IV). [Update: Petersen notified the Committees that no new user users' guide is available at this time].
- Mike Schiewe will coordinate with Bruce Suzomoto to find out what information/data would be useful for Suzomoto's proposed demonstration of the All-H Analyzer at the March HC meeting. Mike Schiewe will pass this information on to Kirk Truscott (Item IV).
- Using information provided by Mike Schiewe, Kirk Truscott agreed to contact Andy Appleby at Washington Department of Fish and Wildlife (WDFW) regarding data needed for a presentation on the All-H Analyzer (Item IV).
- Kirk Truscott will provide 2005 broodstock objectives and protocols at the next meeting, with the goal of approval at the March or April meeting (Item VI).
- Kirk Truscott agreed to provide to Chelan PUD a written list of comments for the Chiwawa Water Study report (Item IX).
- Chuck Peven, Kris Petersen, and Kirk Truscott agreed to conduct an email discussion and update the Committees on the schedule and deadlines for the Endangered Species Act (ESA) and Mitigation and Enhancement (M&E) Reports (Item XI).

- Mike Schiewe agreed to draft a proposed agenda and speakers list for the upcoming Mid-Columbia Forum and to send this to Committees members (Item XII, 1).
- Kris Petersen agreed to email the link to the Federal Register listing for the Colville smolt trap application in the Okanagan when it is posted (Item XII, 3).
- Ali Wick agreed to email Kirk Truscott as to what is needed for the Hatchery Production tables in the Annual Reports (Item XII, 5).

## **DECISION POINT SUMMARY**

- Committee members approved the Statement of Agreement: Sockeye Split—Rock Island, with no amendments (Item II).
- Committee members approved the Statement of Agreement: Hatchery Facilities Evaluation subject to a minor addition (Item III [Update: approved by email consensus February 4, 2005]).

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

See Attachment A to these Meeting Minutes for the list of attendees.

Mike Schiewe opened the meeting by asking for approval of the December Meeting Minutes. Shaun Seaman recommended minor changes to the Meeting Minutes, and the Meeting Minutes were approved subject to these changes (Ali Wick will send out final Meeting Minutes by email [sent out January 27]).

### **II Statement of Agreement: Sockeye Split—Rock Island (Mike Schiewe)**

Mike Schiewe opened this discussion by updating the Committees that the Statement of Agreement for the sockeye split for the Rock Island HCP between Wenatchee and Okanagan Basins had been sent to the Committees for review. The Committees approved the Statement of Agreement with no amendments (Attachment B to these Meeting Minutes).

### **III Statement of Agreement: Hatchery Facilities Evaluation Report (Shaun Seaman)**

Shaun Seaman introduced this Statement of Agreement for the Hatchery Facilities Evaluation. Kirk Truscott recommended that a third bullet should be added to the section on water feasibilities studies indicating that a study is need at Chelan Falls Hatchery. The

Committees approved the Statement of Agreement subject to this amendment (Attachment C to these Meeting Minutes [approved by email February 4, 2005]).

#### **IV All-H Analyzer Model Overview (Kris Petersen)**

Kris Petersen gave a brief introduction to the Committees regarding this tool that models all “H’s” (hatchery, harvest, hydropower, and habitat). The All-H Analyzer was developed by Lars Mobernd as part of the Hatchery Scientific Review Group (HSRG) process in Puget Sound. Unlike EDT, it is an open source Excel spreadsheet model. The model may be useful for informing decisions regarding hatchery and harvest actions. Because Bruce Suzomoto may give a presentation on this at the meeting in March, Kris Petersen agreed to check on an updated users’ guide and will send this to the Committees. Mike Schiewe will coordinate with Suzomoto to find out what information/data and assumptions would be used during this presentation that would demonstrate the model. Mike Schiewe will pass this information on to Kirk Truscott. Using this information, Truscott agreed to contact Andy Appleby at WDFW regarding the data needed for Suzomoto’s presentation. This presentation will likely consist of the morning session of a regular Hatchery Committees meeting; additional staff of Committees members may attend.

#### **V HCP Website (Mike Schiewe)**

Mike Schiewe updated the Committees that the Coordinating Committees had discussed the proposed content and users for a potential HCP website containing Chelan and Douglas PUD HCP information. The Coordinating Committees discussed potential documents to be hosted in separate password-protected and publicly-accessible sections. The password-protected section might contain: calendar, draft items, meeting agendas, Meeting Minutes, attachments, and Statements of Agreements. The public site might contain: final Meeting Minutes, final reports, and HCP history documents and filings. The Coordinating Committees discussed the possibility of Anchor organizing/hosting this service and Mike Schiewe will be checking into this arrangement. Chris Carlson mentioned that Grant PUD may be interested in linking their site into this information.

#### **VI 2005 Broodstock Collection Objectives and Protocols (Kirk Truscott)**

Kirk Truscott led a discussion on the schedule for providing 2005 broodstock objectives and protocols; proposed objectives and protocols will be provided as a draft at the February

meeting, with the goal of approval at the March or April meeting. Chuck Peven mentioned that Chelan and Grant PUD are in the process of assessing Grant PUD's production plans in light of Chelan PUD's potential Chiwawa improvements. Mike Schiewe suggested that Grant PUD invite Chelan and Douglas PUDs the Priest Rapids Hatchery Committee meetings to keep abreast of their progress. Mike Schiewe also verified with Truscott and Kris Petersen that the ESA permits require broodstock protocols.

#### **VII Prioritized WDFW Potential Improvements List (Shaun Seaman)**

Shaun Seaman updated the group that the WDFW Potential Improvements List has been circulated. Items have been categorized into a descending priority by the letters A, B, and C, but have not been prioritized further within these categories. Some items in this list are being actively addressed, and some of these improvements may be subject to Requests for Feasibility Analysis (RFAs). Seaman encouraged the Committees to review this list off-line and address questions or concerns to Chuck Peven. Feasibility studies for some of the items are currently being planned, and due dates for these studies will be prepared and revised as objectives are set and understood for the various activities.

#### **VIII Wenatchee Basin Coho Mitigation (Shaun Seaman)**

Mike Schiewe indicated that the HCPs require the Committees to address the topic of coho mitigation in a phased approach. Phase 1 is to evaluate whether a hatchery program and/or naturally-reproducing population exists; and Phase 2 is to establish appropriate means to satisfy the 7% hatchery compensation program. The HCP provides further information regarding actions necessary for the PUD if warranted. The Committees discussed the fact that the Yakama Nation's (YN) program currently releases about 1 million coho smolts in the Wenatchee basin. The YN is currently proposing to begin a phased-up approach to develop local broodstock and start releasing in other streams within the Wenatchee Basin. As part of the YN's BPA program, they have developed a Technical Working Group, to oversee the program on a technical basis. This group has seen the YN's proposal and is evaluating whether to endorse it or not. There is an upcoming meeting on February 17 in Leavenworth that Mike Schiewe will attend. The Committees agreed to revisit this topic at future meetings.

## **IX 2005 Chiwawa River Hatchery Water Supply Study (Chuck Peven)**

Chuck Peven provided Committees members prior to the meeting, with a hard copy of the 2004 Chiwawa River Hatchery Water Supply Study report, prepared by Chelan PUD. Kris Petersen commented that biological appropriateness should be the first criteria for selecting options for the hatchery water supply. Chuck Peven responded that this was first taken into account in initiating the study. Peven stated that Chelan PUD attempted to meet this goal by evaluating options regarding groundwater and by mixing with Wenatchee River water. Kirk Truscott commented that groundwater options may have been dismissed too early in the process, and asked for clarification on these options. To this end, Bill Christman (of Chelan PUD) joined the meeting to answer questions.

Christman updated the Committees that the groundwater capacity nearby is inadequate to serve the facility. Christman also clarified that temperature differentials between Chiwawa River water and groundwater given in the report refer to temperatures close to the surface during non-frazil ice periods. Viable options in the report were selected with the objective of minimizing use of Wenatchee River water to maintain fish health and homing fidelity. It may be possible to use some groundwater, but Wenatchee River water would still be needed as a backup option. In the report, the estimated percent of water hitting the screen (if water is added just before the screen) was based on a conservative judgment because the Chiwawa intake site is shallow, high-gradient, and close to the water surface.

Chelan PUD will review temperature data in order to check on the temperature differentials between groundwater and surface water. To aid in this effort, Truscott agreed to provide Chelan PUD with a written list of comments for this report.

## **X Turtle Rock Conversion (Chuck Peven)**

Chuck Peven updated the Committees that he had discussed with Heather Bartlett about whether the YN is in agreement with the Turtle Rock conversion from subyearlings to yearlings, as proposed by WDFW and Senator Linda Evans Parlette. The YN are in agreement with conversion of the Turtle Rock program as part of the 2005-2007 bridge agreement in regards to U.S. vs. Oregon. Chelan PUD is now looking at the technical feasibility and Operations and Maintenance (O&M) needs for the future. Senator Parlette is interested in helping find funds to help this conversion. Chuck Peven agreed to continue

being the point of contact through Dennis Beich (WDFW) for Senator Parlette; he will communicate an estimate of this cost through Mr. Beich.

## **XI ESA and Mitigation and Enhancement Reports (Kris Petersen)**

Kris Petersen introduced this topic by stating that the objective of these reports is to fulfill ESA and M&E needs in one document. Kirk Truscott indicated that draft outlines for these reports have been sent to NOAA Fisheries, Chelan PUD, and Douglas PUD for review. Kris Petersen noted that tables will be required showing release and tagging history, and Chuck Peven verified that he is currently working with Andrew Murdoch to prepare this. Peven, Petersen, and Truscott agreed to conduct an email discussion to determine the schedules and deadlines for these reports; they will update the Committees on these dates. These reports will likely appear in the HCP Annual Reports as a technical memorandum.

## **XII Other Issues (Mike Schiewe)**

### **1 Mid-Columbia Forum (Mike Schiewe)**

Mike Schiewe updated the Committees that the Coordinating Committees had previously agreed to host a Mid-Columbia Forum a couple of times a year (likely late March and November), and had set the first meeting date for Tuesday, March 29 at the Convention Center in Wenatchee, for 5 to 6 hours (times TBA). Meeting topics will likely be three-fold: 1) fish passage/No Net Impact (NNI); 2) hatchery issues; and 3) tributary issues, to include history, completed studies, plans for the coming year, and agreements made for these topics. Discussions may be hosted by a lead person, supported by a panel of Committees members for these topics. Potential invitees may include HCP signatories, HCP non-signatories, PUD commissioners, Washington Department of Ecology, the Northwest Power Planning Council, watershed councils, the Bonneville Power Administration, the U.S. Army Corps of Engineers, the Salmon Recovery Funding Board, the Upper Columbia Salmon Recovery Board, Technical Recovery Teams, Federal Energy Regulatory Commission, U.S. Forest Service, Okanagan Nation Alliance, the Bureau of Reclamation, and the Nature Conservancy, among others. Mike Schiewe agreed to draft a proposed agenda and speakers list and to send this to Committees members; this agenda will be sent to HCP non-signatories for review and comment before finalization.

**2      *Updates on WDFW Facilities*      *(Rick Stilwater/Kirk Truscott)***

Kris Petersen asked for an update on WDFW's plans to switch back to Chiwawa River water at the Chiwawa facility. Rick Stilwater responded that WDFW is following standard protocols, and are watching environmental conditions closely and will make the switch according to conditions. Stilwater also updated the Committees that there is currently an ice dam above the shake wall at Similkameen Ponds. Also, the Twisp Trap will be ready for fish this year, as pond screen work should be completed by March 1.

Kirk Truscott updated the Committees that access issues for the planned work at the Chewuch Trap are being dealt with on the Interagency Committee (IAC) level, and that access will have to be obtained by land acquisition or by permit.

Kirk Truscott updated the Committees that WDFW would like to initiate a discussion with the Colville Tribes on summer chinook rearing results at Bonaparte Ponds, possibly at the February meeting.

**3      *Colville Smolt Trap in Okanagan*      *(Kris Petersen)***

Kris Petersen updated the Committees that the permit application for smolt-trapping in the Okanagan is part of the basin-wide monitoring program. This application will be posted in the Federal Register for public comment. Operations proposed are similar to existing smolt traps with data to be shared among interested parties. WDFW is on board with the proposed application. Petersen agreed to email the link to the Federal Register listing when it is posted.

**4      *PUD Report Formats*      *(Shaun Seaman)***

Shaun Seaman updated the Committees that to improve efficiency, update and summary reports from Chelan PUD that are prepared on a repetitive basis will be created as technical memos or addenda referencing the original document. Shane Bickford indicated that Douglas PUD currently follows this pattern as well.



**5 HCP Annual Reports (Mike Schiewe)**

Mike Schiewe updated the group that these reports are in progress. Ali Wick agreed to email Kirk Truscott as to what is needed for the Hatchery Production tables in the Annual Reports.

**6 Next Meeting**

The next meeting will be held Wednesday, February 16, 2005 in Wenatchee.

**List of Meeting Minute Attachments**

Attachment A: List of Attendees

Attachment B: Statement of Agreement—Sockeye Split

Attachment C: Statement of Agreement—Facilities Evaluation Report

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman*	Chelan PUD
Chuck Peven	Chelan PUD
Scott Buehn	Chelan PUD
Jim Gray	Chelan PUD
Bill Christman	Chelan PUD
Jerry Marco *	Colville Tribes (by conference call)
Rick Klinge *	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NOAA Fisheries
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Rick Stilwater	WDFW
Bob Rogers	WDFW
John Penny	WDFW

\* Denotes Hatchery Committees member

**ATTACHMENT B**  
**STATEMENT OF AGREEMENT—SOCKEYE SPLIT**

***Decision on allocation of sockeye production from Rock Island HCP***

**Date: January 26, 2005**

**Statement of Agreement:**

Hatchery Committee representatives from the signing agencies for the Habitat Conservation Plans for Rock Island and Rocky Reach Projects agree to the following allocation of sockeye 7% mitigation obligation (571,040 fish) from the Rock Island HCP:

- 280,000 Wenatchee Sockeye released from the Lake Wenatchee Net Pens
- 291,040 Okanogan Sockeye

**Background:**

The Rock Island HCP identifies a production of 571,040 sockeye salmon as compensation for 7% unavoidable project mortality. It is Chelan PUD's understanding that this production would be split consistent with the adult return distribution of 60% for Okanogan Basin sockeye and 40% for Wenatchee Basin sockeye. This equates to 228,416 for the Wenatchee Basin.

At the November 9, 2004 Hatchery Committee meeting, WDFW proposed an alternate approach to determining the production goal considering pre-smolt to smolt survival estimates (approximately 80% based on the late release group). This alternate approach results in a production goal of approximately 280,000 sockeye salmon released into Lake Wenatchee. Committee members discussed this alternate distribution of production and agreed to use it as the planning case.

Total Okanogan Sockeye Obligation for CPUD would be 591,040 for both Rock Island and Rocky Reach HCPs.

**ATTACHMENT C  
STATEMENT OF AGREEMENT—FACILITIES EVALUATION  
REPORT**

***Hatchery Facilities Evaluation: Suggested Guidelines for Anadromous Fish Hatchery Programs***

**Date: January 26, 2005**

**Statement of Agreement:**

Hatchery Committee representatives from the signing agencies for the Habitat Conservation Plans for Rock Island and Rocky Reach Projects approve the *Hatchery Facilities Evaluation: Suggested Guidelines for Anadromous Fish Hatchery Programs* as a baseline planning tool for Hatchery Committee decision making. While all parties recognize this evaluation is not binding and will be updated as programs change or technical understanding changes (e.g., modifying facilities, changing production levels changes in rearing criteria) the Hatchery Committee agrees that this report provides:

1. current basis for determining hatchery capacity requirements as well as identifying capacity gaps (i.e., rearing criteria, rearing logistics, and infrastructure are accurate and appropriate)
2. conceptual direction and framework for identifying, evaluating and implementing actions to respond to the defined capacity gaps in a manner consistent with JFP goals.

**Background:**

The Anadromous Fish Agreement and Habitat Conservation Plans (HCP) for Rocky Reach Hydroelectric Project and Rock Island Hydroelectric Project have been signed by Chelan County PUD, National Oceanographic and Atmospheric Administration (NOAA) Fisheries, United States Fish And Wildlife (USFW), Washington Department of Fish and Wildlife (WDFW), and the Confederated Colville Tribes. These agreements commit Chelan PUD to providing sufficient hatchery production capacity to meet the original inundation requirements and compensation for passage losses. Therefore, this Hatchery Facilities Evaluation provides a baseline analysis of hatchery production capacity in 2004.

This Hatchery Facilities Evaluation was conducted collaboratively with input from all members of the Chelan PUD HCP Hatchery Committee whose members include representatives from all HCP signatories. The Hatchery Committee had the opportunity to comment on and contribute to the development of the report in a review capacity and as members of the Alternatives Sub Committee. The Alternatives Sub Committee was formed to ensure the proper input into the development and evaluation of alternatives to address gaps identified in the report. The Alternatives Sub Committee was made up of representatives from WDFW and Chelan PUD with experts from the fields of fish health and hatchery management.

Note there are additional evaluations underway to address operational issues at individual facilities, specifically:

- Water source at Chiwawa Ponds (2004)
- Water quality issues at Similkameen Ponds (2005)
- Water supply at Chelan Falls Fish Hatchery (2005)



Anchor Environmental, L.L.C.  
1423 3<sup>rd</sup> Avenue, Suite 300  
Seattle, Washington 98101  
Phone 206.287.9130  
Fax 206.287.9131

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Bob Rogers, Rick Stilwater, Kevin Kytola, Ali Wick

**Date:** March 17, 2005

**Re:** Final Minutes of February 16, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans (HCP) Hatchery Committees met at the Chelan PUD Fish and Wildlife Building in Wenatchee, Washington on February 16, 2005 from 11:00 am to 3:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Rick Klinge agreed to email the presentation formerly presented to FERC to Ali Wick for posting to the group (Item II) [emailed and posted February 17].
- Ali Wick agreed to collate a Service List of potential invitees to the Mid-Columbia Forum (Item II).
- Committees members agreed to provide Ali Wick with names and contact information for potential invitees to the Mid-Columbia Forum for the Service List (Item II).
- Mike Schiewe agreed to make the Coordinating Committees aware of the Chewuch River Trap access issues (Item III).
- Committees members agreed to provide comments to Chuck Peven on the Chelan PUD Mitigation and Enhancement (M&E) Plan before April 6 (Item IV).
- Kirk Truscott agreed to provide draft broodstock collection protocols for consideration at the March meeting (Item V).
- Chelan PUD agreed to further develop the concept of engineering for a potential infiltration gallery at the Chiwawa hatchery and to look into potential permitting issues with the Washington Department of Ecology (Ecology) and the Forest Service regarding this gallery (Item VI).

- Chuck Peven agreed to convene with Rick Stilwater and Bob Rogers on the protocols and operations procedures at the Chiwawa hatchery, to be reported on at the March meeting (Item VI).
- Kevin Kytola agreed to provide the Committees with an overview diagram of the road maps before the next meeting (Item VII).
- Kirk Truscott agreed to send the draft Endangered Species Act (ESA) Permit 1196 document to the Committees (Item VIII).

## **DECISION ITEM SUMMARY**

There were no decision items at this meeting.

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

See Attachment A to these Meeting Minutes for the list of attendees. Mike Schiewe opened the meeting by asking for approval of the January Meeting Minutes. Kris Petersen recommended minor changes to the Meeting Minutes, and the Meeting Minutes were approved subject to these changes (Ali Wick will send out final Meeting Minutes by email [sent out February 17]).

### **II Mid-Columbia Forum Planning (Mike Schiewe)**

Mike Schiewe opened this topic by asking for the Committees' opinions on the proposed agenda that he drafted for the Mid-Columbia Forum (planned for March 29, 2005). The Committees tentatively organized the content and arrangement of portions of the outline as shown below:

- A. A summary/overview of the HCP process (Kris Petersen and Kirk Truscott): This is to include a broad discussion of the hatchery programs and locations, a summary of overall hatchery goals for the three hydroelectric projects, and the changes to those goals as a result of the HCP.
- B. PUD Programs (Chuck Peven, Kirk Truscott): This is to include a discussion of program mitigation objectives for the specific projects, as well as the Hatchery Facilities Review that Chelan PUD has prepared; the goals of the M&E Plans (Chuck Peven or Kirk Truscott); and the 2004 hatchery numbers, as well as the projected 2005 production levels (Kirk Truscott). The Committees expressed interest in de-



emphasizing yearly production levels and emphasizing the big picture of hatchery production.

C. Douglas PUD would follow a format similar to B above.

Kristine Petersen mentioned that there was a presentation given to FERC by Shane Bickford that may be helpful in preparing these talks. Klinge agreed to email the presentation formerly presented to FERC to Ali for posting to the group. Mike Schiewe confirmed that Meeting Minutes will be prepared for the Forum and PowerPoint presentations will be made available on the upcoming HCP website. Schiewe suggested conducting a dry-run of the presentations at the March meeting. Ali Wick agreed to collate a Service List of potential invitees to the Mid-Columbia Forum and Committees members agreed to provide her with names and contact information for these potential invitees.

### **III Update: Chewuch River Trap (Kirk Truscott)**

Kirk Truscott provided an update on the proposal for access to the Chewuch River Trap site; this proposal is being presented formally to the Interagency Committee (IAC) and there is no expected date for a decision. As a result, 2005 trapping will be conducted at Fulton Dam. Committees members expressed interest in Mike Schiewe bringing the issue to the Coordinating Committees for possible elevation to the Policy Committee level; Schiewe agreed to make the Coordinating Committees aware of these issues at the next meeting (February 22).

### **IV Chelan PUD M&E Plan (Chuck Peven)**

Chuck Peven updated the Committees on the status of the Draft Chelan M&E Plan and provided a copy for their review. Committees members agreed to provide comments on the Draft Chelan M&E Plan before April 6. Rick Klinge updated the Committees regarding the Douglas M&E Plan, which is in preparation and will follow Chelan PUD's Plan. (The Douglas PUD Plan is also being prepared by Andrew Murdoch at Washington Department of Fish and Wildlife [WDFW]).

### **V 2005 Broodstock Collection Objectives and Protocols (Kirk Truscott)**

Kirk Truscott updated the Committees on his progress in providing the 2005 broodstock collection objectives and protocols, but indicated that this document is not fully developed.

He estimated 6,700 natural origin spring chinook returning to the Wenatchee basin, of which 2,358 would be destined for the Chiwawa River. With these estimates, he anticipates little concern meeting the broodstock collection goal of 379 adult fish at Chiwawa Ponds. He used the Technical Advisory Committees' (TAC) estimates for early forecast in order to compare to his developing protocols; TAC estimated 6,700 fish returning to the entire Columbia River. However, TAC estimates were based on 2001-2003 data and he indicated that it is likely that this year's actual escapement will be substantially higher. Truscott agreed to provide more fully developed draft broodstock collection protocols for consideration at the March meeting.

Truscott confirmed that if excess broodstock are collected due to a reduction in Chelan PUD's obligation, those fish will be spawned in 2005 and the reductions in broodstock collection will occur in 2006 (the following brood year).

#### **VI 2005 Chiwawa River Water Supply Study (Steve Wiest)**

Steve Wiest of Chelan PUD joined the meeting to answer questions from the Committees regarding the recent Chiwawa River Water Supply Study Report. Kirk Truscott provided written comments from WDFW for this report (Attachments B.1 – B.8 to these Meeting Minutes). The following items list the questions and comments addressed by Wiest:

- WDFW indicated that the use of additional, deeper, or diagonal wells at the Chiwawa Hatchery may be options worth considering as a way to increase the groundwater availability at the hatchery. Wiest discussed the idea that the temperature differential between groundwater and surface water was not empirically measured and may indeed be greater than 1 degree. Chelan PUD provided a chart comparing groundwater differentials and the amount of water needed for each differential value. After some discussion, the Committees discussed and tentatively agreed (some Committees members reserved the right to revisit the idea) that the amount of groundwater needed to offer a solution would likely be inadequate since it will not provide the amount of groundwater necessary for a long-term solution, regardless of the temperature differential or well configuration.
- The Committees discussed the idea of installing an infiltration gallery to replace the intake screen setup. Wiest and Shaun Seaman indicated that there were a number of site-specific and permitting issues that would need to be addressed using a gallery at

- the hatchery. Chelan PUD agreed to further develop the concept of engineering for a gallery at the hatchery and to look into potential permitting issues with Ecology and the Forest Service regarding this gallery.
- The Committees discussed the idea of switching from Wenatchee River water to Chiwawa River water on a more frequent basis throughout the year, and the question was raised as to how many days of Chiwawa River water would likely be gained with this arrangement. Chuck Peven agreed to convene with Rick Stilwater and Bob Rogers on the protocols and operations procedures at the Chiwawa hatchery and the anticipated window(s) for this. The protocols and operations procedures will be reported on at the March meeting.

#### **VII Prioritization for Chelan PUD Hatchery Program- and Road Maps (Kevin Kytola)**

Kevin Kytola provided an overview of the procedure he is developing for tracking actions and decisions for Chelan PUD's implementation of the HCP. This includes action dates and decisions, potential strategies and impacts, actions necessary and the path forward for these, and a road map showing the relationship of all steps over the next several years. From this, he will be developing a detailed schedule and annual calendar for each year. He expects this product to be helpful in tracking progress and managing timelines. Kytola agreed to provide the Committees with an overview diagram of the road maps before the next meeting.

#### **VIII Other Issues (Mike Schiewe)**

Mike Schiewe updated the Committees that he is drafting operating protocols outlining the workings of Committees procedures.

Kirk Truscott agreed to send the draft ESA Permit 1196 document to the Committees.

The next meeting will be held Wednesday, March 16, 2005 in Wenatchee.

#### **List of Meeting Minutes Attachments**

Attachment A: List of Attendees

Attachment B.1 – B.8: WDFW Comments to the Chelan PUD Chiwawa River Water Supply Study Report

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman*	Chelan PUD
Chuck Peven	Chelan PUD
Steve Wiest	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NOAA Fisheries
Kevin Kytola	Sapere Consulting, Inc.
Brian Cates *	USFWS (by conference call)
Kirk Truscott *	WDFW
Rick Stilwater	WDFW
Bob Rogers	WDFW

\* Denotes Hatchery Committees member

**ATTACHMENT B.1 – B.8  
WDFW COMMENTS TO THE CHELAN PUD CHIWAWA RIVER  
WATER SUPPLY STUDY REPORT**

STATE OF WASHINGTON  
DEPARTMENT OF FISH AND WILDLIFE  
FISH PROGRAM  
HATCHERIES DIVISION/FISH HEALTH SECTION  
P.O.Box 856 OMAK, WA 98851  
ph/FAX 509-826-7338  
cell 509-429-8208  
e-mail rogerwr.dfw.wa.gov

February 10, 2005

TO: Kirk Truscott  
FROM: Bob Rogers  
SUBJECT: Chiwawa Hatchery Water Supply Evaluation

Kirk,

I think all issues have not been fully explored yet regarding the operational changes recommended for the Chiwawa facility.

Regarding the alternatives listed in the evaluation report, I think an alternative similar to #8 has potential for minimizing temperature fluctuation stressors to the fish. This option, provided water sources are plumbed for mixing in a common collector, will provide staff (WDFW) the means of gradual acclimation of fish during periods of decreasing water temperatures. This option would be enhanced by the addition of a deeper intake pool. I do not agree with any alternative that does not allow for gradual acclimation. Additionally, I think we can reasonably expect that attempts to use surface waters through extended periods of extreme cold, heavy snows, frazil or anchor ice will result in an ice cover on the ponds. Hence, the need also for a structure over the pond. (Early disease history records for Similkameen time indicate notable losses associated with similar conditions).

I have included several examples from the last 3 years that show short- and long-term losses associated with cold water temperature shock and the diseases the insult can precipitate. Please note that some of these you may have already seen (I have modified them for talking points at this meeting).

**2001BY Chiwawa Spring Chinook graph:** This shows how repeated temperature insults can affect mortality. Losses to this lot of fish began 1-week post transfer from Eastbank to Chiwawa and resulted in approximately 49% of the population.

**Bonaparte Acclimation Pond graphs:** This lot of fish was noted with physical trauma after transfer, with initial losses from fungus in December. Additional losses to Bacterial Gill Disease, identified after the pond thawed in mid-February, approached 90% of the population (loss graph). The daily water temperature fluctuation graph is included.

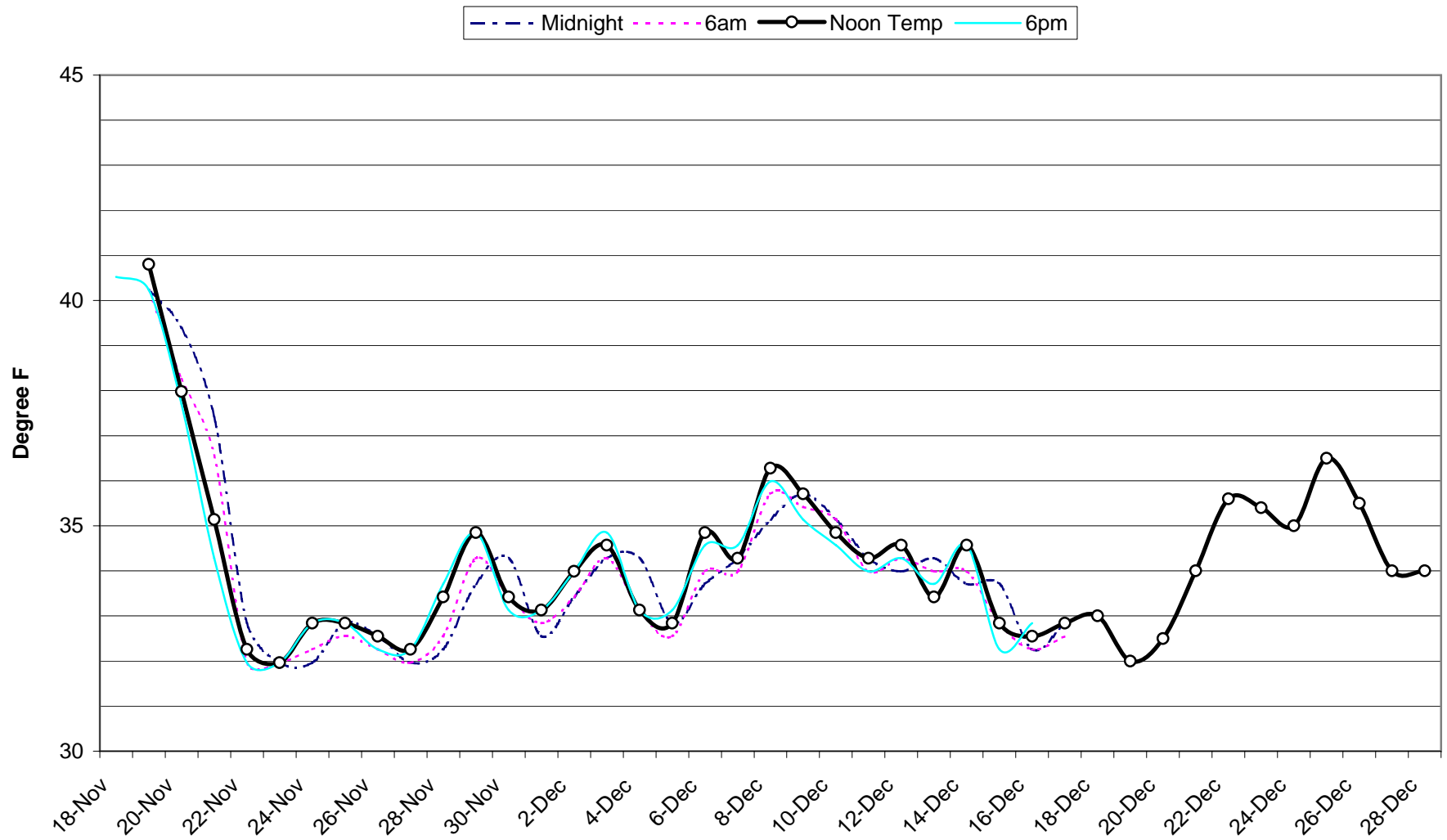
**Similkameen Rearing Pond graphs (3): Initial losses post transfer from Eastbank to Similkameen (Nov 1-15) approximated 13% of the population. This was attributed to severe temperature shock.**

**Losses continued from late-November to late-February due to external fungus, bacterial gill disease, and bacterial coldwater disease. These extended losses were precipitated by the earlier temperature insults (my opinion). Losses approached 28%.**

**Water temperature acclimation trials gave good indication that temperature shock was cause for losses observed.**

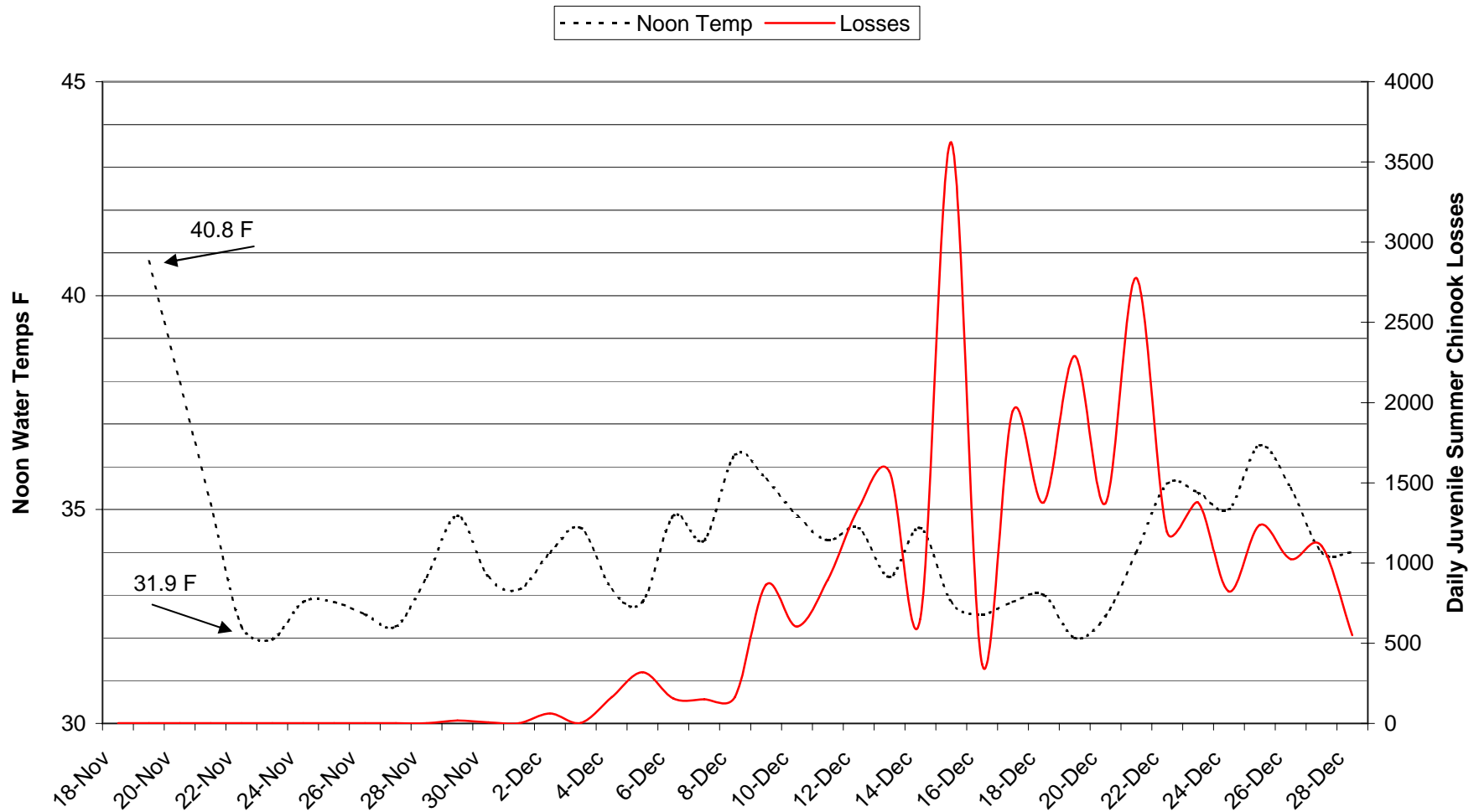
**cc: files**

# Bonaparte Acclimation Pond-Okanogan River Daily Temperature Flucuation-2003





# Bonaparte Acclimation Pond-Okanogan River Surface Water Temps and Daily Losses-2003



## 2001BY Chiwawa Spring Chinook

Transferred 749K at 26fpp from Eastbank to Chiwawa between October 21-24, 2003

### Probable Cause of Loss:

A series of severe temperature shocks resulted in temperature-induced immunosuppression and a subsequent fungal infection

### *the following temps are from annual temp reports*

21-24 Oc Transferred fish from 58F EB well water to 44-50F Wenatchee River water  
(normal transfer dates approx 3 weeks earlier when Wenatchee at 51-52F)

**1st temp insult of minus 11F using daily ave of 47F                      -11F**

26-Oct Fish switched from 44F Wenatchee to 33-38F Chiwawa

**2nd temp insult of minus 9F using daily ave of 35F                      -9F**

26-30Oct Chiwawa river temps decreased to 32-35F, iced

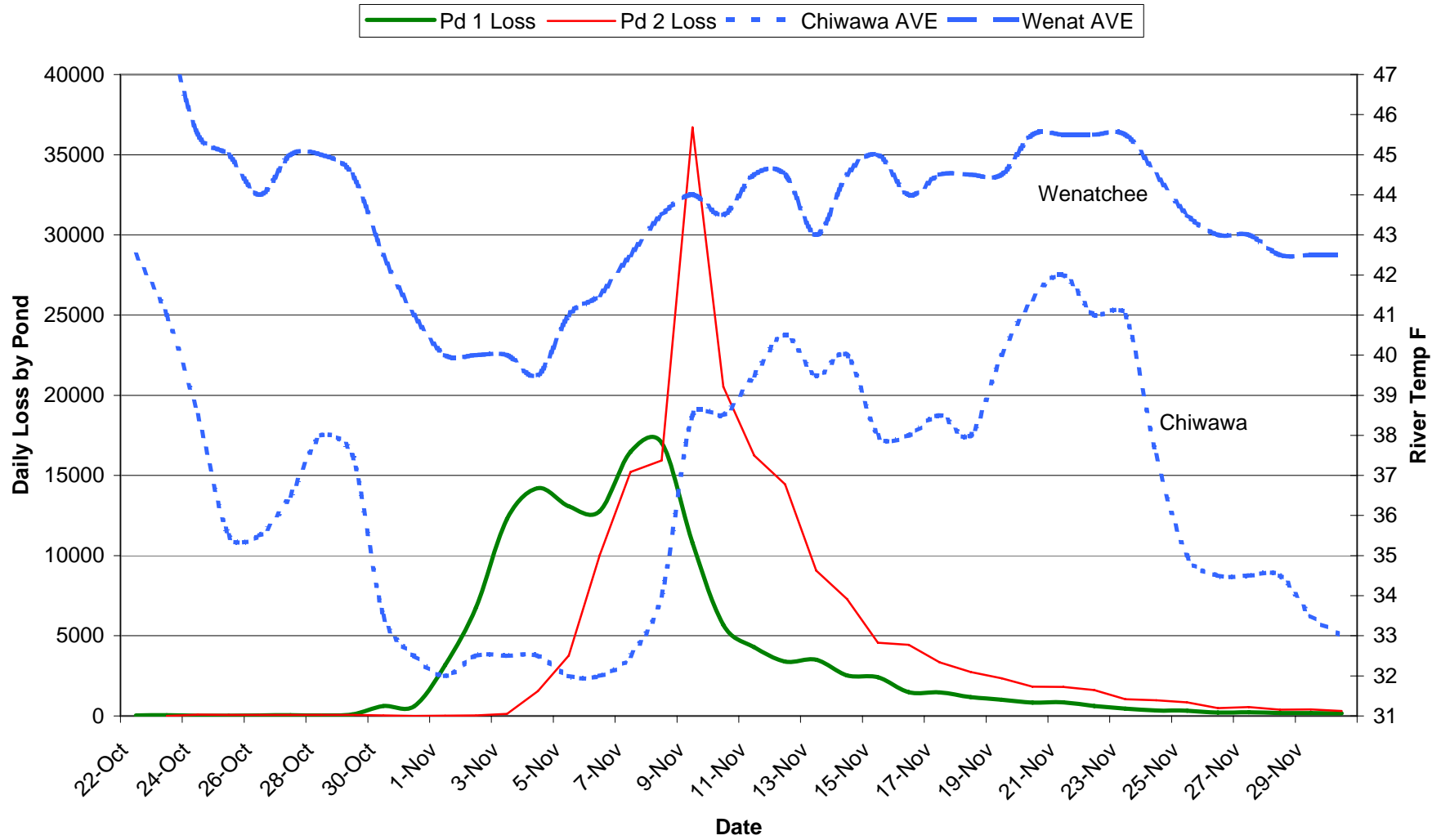
**3rd temp insult at decrease to 32F???                                      ???**

30-Oct Fish switched to 41-44F Wenatchee water

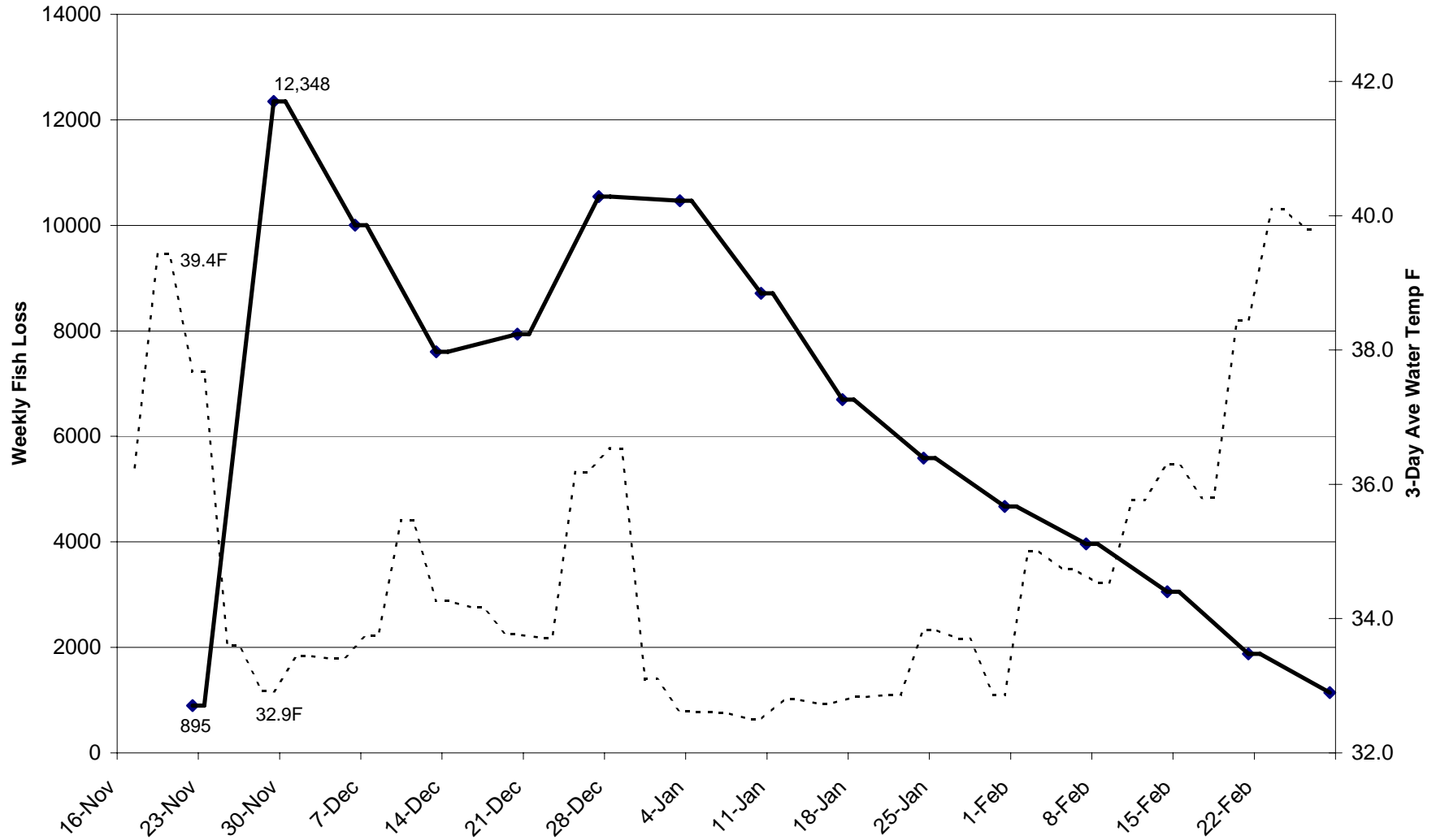
**4th temp insult of plus 10F using daily ave of 42                      +10F**

*to date, all fish remain on Wenatchee*

## Water Temperature Insults and Associated Fish Loss 2001BY Chiwawa Spring Chinook

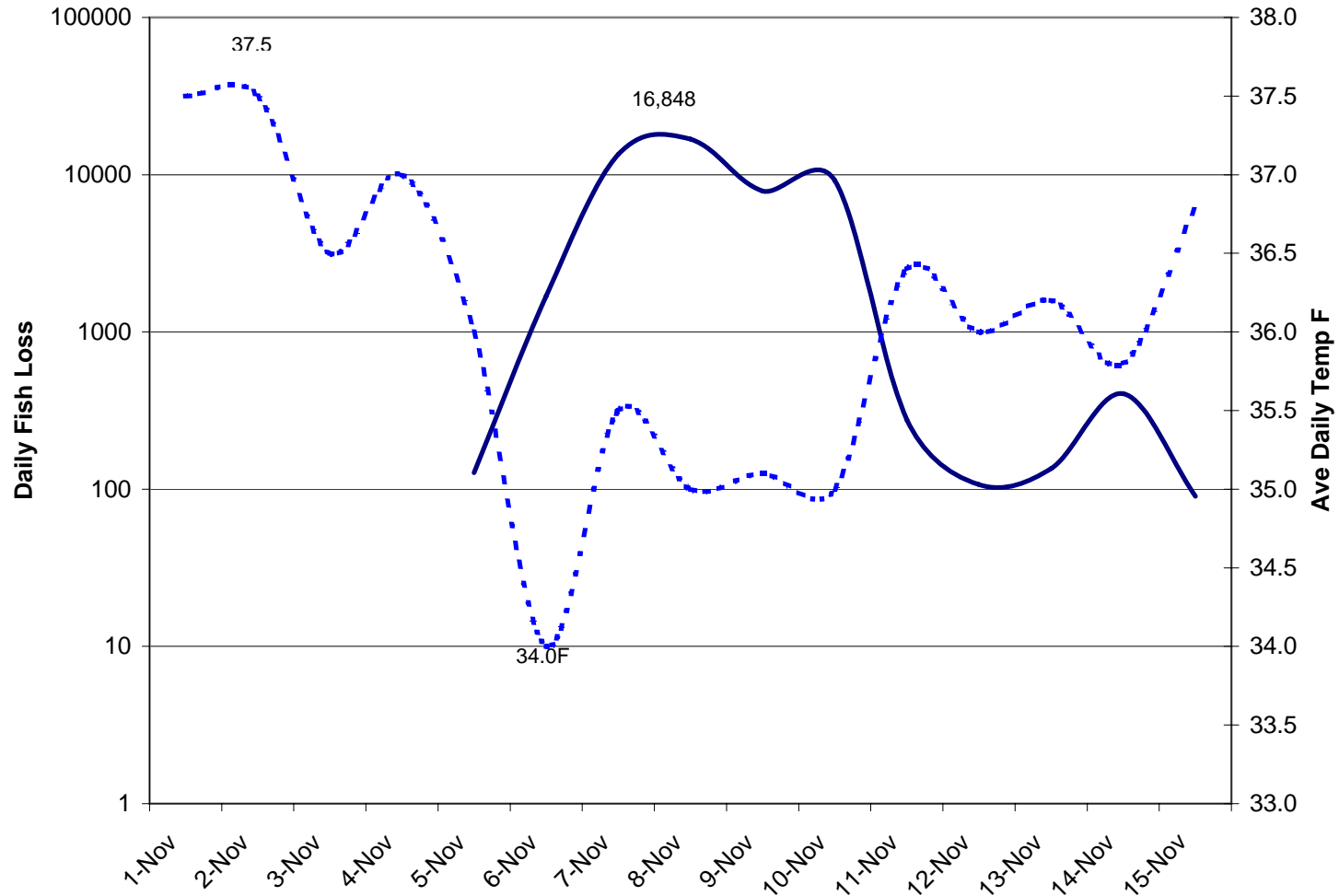


**Similkameen Rearing Pond-2002BY Summer Chinook  
Losses to Transfer and Bacterial Coldwater Disease**

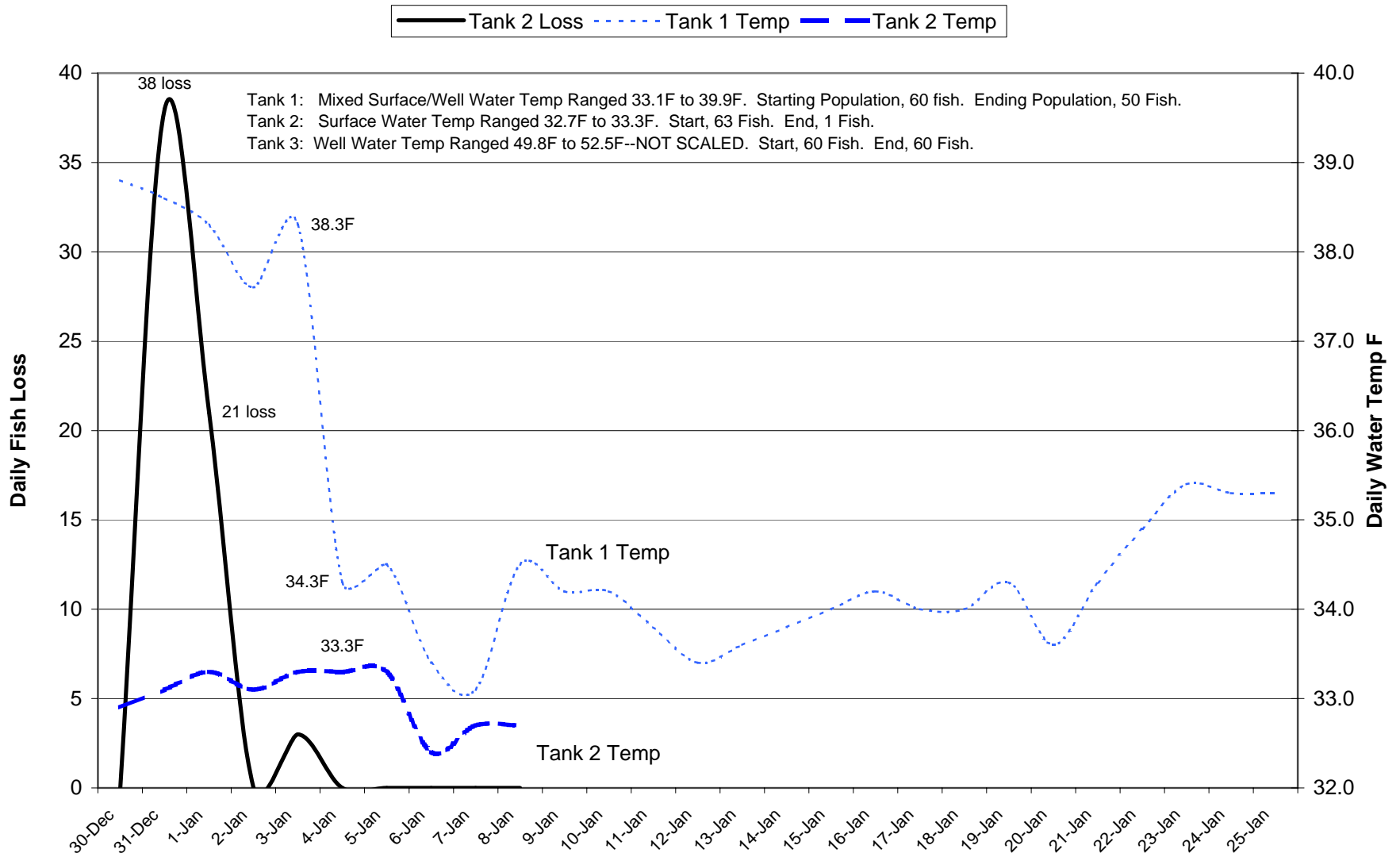


### Similkameen Rearing Pond-2002BY Summer Chinook Low Water Temperatures and Fish Loss

— Daily Fish Loss    - - - Average Water Temp



## Similkameen Rearing Pond: Acclimation Test Tanks; December 2003



**STATE OF WASHINGTON**  
**DEPARTMENT OF FISH AND WILDLIFE**  
**Mid- Columbia Field Office**

*3515 State Hwy. 97A \* Wenatchee, WA 98801 \* (509) 664-1227 \* FAX (509) 662-6606*

MEMORANDUM

February 11, 2005

To: Chuck Peven, Chelan PUD

From: Kirk Truscott, WDFW

Subject: Chiwawa Hatchery Water Supply Evaluation Report

Washington Department of Fish and Wildlife (WDFW) appreciates the Districts efforts to evaluate potential strategies to address spring Chinook rearing/acclimation/homing fidelity issues at the Chiwawa River related to utilization of Wenatchee River water for rearing/acclimation during cold-water rearing periods. WDFW staffs have reviewed the Chiwawa Hatchery Water Supply Evaluation Report. Generally, WDFW believes that: 1) ground water options to address cold-water rearing periods is the most preferred strategy and that additional ground water investigation is appropriate to better assess the potential volume of ground water available and the volume required to address frazil ice at the Chiwawa Hatchery intake screen; 2) the Districts recommended alternative overstates the potential efficacy of reduced reliance of Wenatchee River water, and poses fish health risks due to rapid, substantial and frequent water temperature fluctuations during cold-water rearing conditions; 3) alternatives #8 and #20 provide the next best alternatives (with minor modifications), should ground water volumes be insufficient to address frazil ice at the Chiwawa Hatchery intake screens (alternative #4) during cold-water rearing periods; and 4) extended rearing on Chiwawa River water (colder water temperatures) will require rearing pond covers and modifications to increase the depth of the intake and provide means to prevent surface ice and slush ice from clogging the intake screens at Chiwawa Hatchery outside of frazil ice operations.

WDFW's specific review comments are detailed below.

CC: Carmen Andonaegui, WDFW  
Rick Stilwater, WDFW  
Andrew Murdoch, WDFW  
Bob Rogers, WDFW

## Chiwawa Hatchery Water Supply Evaluation Comments, WDFW

1. WDFW believes that ground water options were dismissed prematurely. The evaluation report identified that the amount of ground water required to affected frazil ice at the intake screen (16 cfs) was based on conservative proportion of the water reaching the screen (approximately 33%) and just a 1<sup>0</sup>F differential between winter surface and ground water temperatures. Likely, the temperature differential is greater than 1<sup>0</sup>F. An increased temperature differential and a delivery system that effectively provides a greater proportion of the ground water on the intake screen reduces the ground water volume required to address frazil ice at the intake screen. Chelan PUD should provide additional information and assessment regarding ground/surface water temperature differentials reassess the proportion ground water affecting the intake screen (i.e. modification of the intake to proved a deeper intake and or where the ground water is delivered at the screen). Based on reassessment of temperature differential and proportion affecting the screen intake, determine the volume of ground water required to address frazil ice at the intake.
2. The Evaluation report stated that the existing ground water availability associated with the Chiwawa site was minimal (less than 50 gpm yield per well). The well logs indicate that the water bearing zones are 8-15 ft in depth, which provides minimal well screen surface area for a vertical well in substrates that appear to have reduced transmissivity. Diagonally constructed wells would increase the amount of water bearing substrates that would be in contact with the well screens, potentially increasing the yields. Chelan PUD should provide an assessment of diagonal well construction feasibility and estimates of yield associated with this type of strategy.
3. The evaluation report also identified 6 wells that were drilled on-site with yields up to 50 gpm. The report did not indicate if the wells were fully developed to maximize the yield. Chelan PUD should provide information regarding the degree of well field development (i.e. were the wells fully developed or was yield based on a initial pump test only or simply estimated through observations during drilling)?
4. The District identified alternative #2 as the preferred alternative. This alternative requires frequent alterations in water sources between the Wenatchee and Chiwawa Rivers. Temperature differentials between the two water sources have the potential to be 3-8<sup>0</sup>F during November – mid-February. A comparison of water temperature differentials is necessary in the Districts evaluation of potential frazil ice days where a switch in water sources from Chiwawa River to Wenatchee River would be required (including the subsequent return to Chiwawa water). Temperature fluctuations in excess of 3-5<sup>0</sup> F during coldwater months (temperatures less than 38<sup>0</sup>F) can have a negative affect on fish health. Fish rearing facilities in the upper Columbia River basin (Chiwawa, Similkameen and



Bonaparte ponds) have shown substantial mortalities, due in part to temperature fluctuations during cold-water rearing periods (Attachment A). WDFW has serious concerns regarding this “recommended alternative”, specifically the potential negative impact to fish health.

5. The District also contends that alternative #2 will reduce the reliance of Wenatchee River water by 80%, based on frazil ice conditions present during 1997-2003 (water temps at 32<sup>0</sup>F and air temps below 20<sup>0</sup>F). Other factors such as snow load (slush ice), and anchor ice likely reduce the efficacy of alternative #2. For example, anchor ice formations on the intake screen will not quickly dissipate at 32-33<sup>0</sup>F (i.e. switching back to Chiwawa water source immediately after frazil ice conditions no longer exist may not be possible until the ice on the intake screen dissipates) requiring longer periods of reliance on Wenatchee River water than estimated in the evaluation report.
6. Based on alternatives provided in the evaluation, WDFW believes that if ground water is insufficient to provide the necessary volume to address frazil ice conditions during cold-water rearing periods, alternatives # 8 and #20 provide the second best options to maximize influence of Chiwawa River water and fish health. WDFW recognizes potential permitting issues, however, the District should pursue discussions with DOE regarding permitting of withdrawal and discharge necessary to implement either of these two alternatives.
7. Additional factors needs to assessed regarding increased rearing/acclimation on Chiwawa River water. Assuming that any of the alternatives provides extended rearing on ambient Chiwawa water source, provisions will be necessary to address fish culture and fish health.
  - (i) Pond covers- WDFW expects significant ice cover on the ponds as a result of cold water rearing. Pond covers provide a means to minimize surface ice and facilitate fish culture (fish observations and mortality collection). Although fish metabolism will be minimal maintenance feeding and pond cleaning will be required. Ice coverage over the ponds would prevent these activities.
  - (ii) Intake modification-The position and depth of the Chiwawa intake funnels surface debris (including flow ice) directly to the intake screen. An deeper intake and a screen “bubbler” will be necessary to prevent slush ice and surface ice from clogging the intake screen during periods where frazil ice conditions are not present but other ice flows exist.



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Chuck Peven, Bob Rogers, Rick Stilwater, Kevin Kytola, Erich Wolf, Ali Wick  
**Date:** April 20, 2005  
**Re:** Final Minutes of March 16, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans (HCP) Hatchery Committees met at the Chelan PUD Headquarters' 2<sup>nd</sup> Floor Conference Room in Wenatchee, Washington on March 16, 2005 from 11:00 am to 3:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick agreed to post the spreadsheets and user's manual for the All-H Analyzer (AHA) to the Anchor Environmental (Anchor) FTP site as soon as they are available from Andy Appleby of the Washington Department of Fish and Wildlife (WDFW) (Item III).
- Erich Wolf agreed to provide Ali Wick with the Decision Calendar for posting to the Anchor FTP site (Item V).
- The Committees members agreed to provide comments on the Broodstock Protocols to Kirk Truscott by March 23 (Item VI).
- Ali Wick agreed to update the Committees on Carmen Andonaegui's findings regarding the Chewuch Trap issues (Item VII).
- Chuck Peven agreed to contact Waikele Hampton of Chelan PUD regarding Washington Department of Ecology (Ecology) water mixing issues at Chiwawa Ponds and to contact Steve Wiest of Chelan PUD regarding modeling potential annual water needs from the Wenatchee and Chiwawa Rivers (Item IX).

### **DECISION ITEM SUMMARY**

There were no decision items at this meeting.

## **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the February Meeting Minutes. The Meeting Minutes were approved with no amendments (Ali Wick will send out final Meeting Minutes by email [sent out March 17]). See Attachment A to these Meeting Minutes for the list of attendees.

## **II Mid-Columbia Forum Planning (Mike Schiewe)**

Mike Schiewe briefly checked in with Committees members and confirmed that preparations were in order for the Mid-Columbia Forum. Ali Wick confirmed with presenters that they should submit presentations to Becky Caputo of Chelan PUD by March 22 for reproducing and loading onto the laptop.

## **III All-H Analyzer Presentation (Andy Appleby and Chip McConaha)**

Andy Appleby provided an overview and presentation of the All H Analyzer (AHA) to the Committees [sent to the Committees on March 30, 2005]. Appleby noted that the AHA is a product of the Hatchery Scientific Review Group (HSRG) in Puget Sound. It is a gene-flow model that looks at hatchery interactions with natural-spawning populations. AHA attempts to account for all Hs (habitat, harvest, hydropower, hatcheries). For the Mid-Columbia basins, AHA could potentially be used to look at the effects of hatchery programs, and to guide broodstock protocols and aid recovery planning, but the actual use of the analyzer will be up to the Hatchery Committee). Appleby pointed out that documenting the assumptions made during input of parameters is crucial to analyzing AHA results, and clarified that AHA does take the Pacific Decadal Oscillation into account. The Committees discussed that they may decide to form a subcommittee to evaluate the applicability of using AHA for Mid-Columbia basins. Ali Wick agreed to post the spreadsheets and user's manual for AHA to the Anchor FTP site as soon as they are available from Andy Appleby of WDFW.

## **IV Chelan PUD M&E Plan (Chuck Peven)**

Chuck Peven updated the Committees that he will be expecting comments on the Draft Chelan Monitoring and Evaluation (M&E) Plan by April 6. Rick Klinge updated the Committees that the Douglas PUD Plan is being prepared by Andrew Murdoch of WDFW and will be distributed soon.

## **V Decision Calendar for Chelan PUD (Erich Wolf)**

Erich Wolf provided the Decision Calendar to Committees members, noting that the document is evolving and will provide a useful tool to guide and preview decision dates. Wolf asked the Committees to take a look and provide any needed feedback on the Decision Calendar to Shaun Seaman.

Wolf agreed to provide Ali Wick with the Decision Calendar for posting to the Anchor FTP site.

## **VI 2005 Broodstock Collection Objectives and Protocols (Kirk Truscott)**

Kirk Truscott introduced the 2005 Broodstock Collection Objectives and Protocols, noting that these are to be approved by the April 15 deadline. He had not received specific comments thus far, except for format/structure comments from Kris Petersen at National Oceanic and Atmospheric Administration (NOAA) Fisheries Service. Committees members agreed to provide comments on Broodstock Protocols to Kirk Truscott by March 23; the protocols will be up for approval at the next meeting on April 20.

Early general comments indicated that Committees members:

- Would prefer streamlining the document by using the M&E Plans as a reference, and using the broodstock protocols to detail applicable broodstock measures
- Are concerned that the basis given in the documents for the spawner forecasts may overestimate escapement
- May disagree with the Twisp weir trapping efficiency given in the draft documents
- Are concerned with the delay of passage that would result from the extension of trapping period for summer chinook at Wells Dam given in the draft documents (specifically, that the number of fish projected to be trapped at Wells dam may be overestimated)

Committees members discussed the potential for Grant PUD to begin a Nason Creek program by using Chiwawa Ponds facilities. Chris Carlson commented that Grant PUD was not currently pursuing this option. Kris Petersen indicated that she would like to convene a co-manager meeting to discuss priorities for Chelan and Grant PUD programs.

Committees members also discussed that next meeting's agenda should include some discussion of the strategy for handling high enzyme-linked immunosorbent assay (ELISA) fish and bacterial kidney disease (BKD) history at Chiwawa Ponds for spring chinook. Chuck Peven commented that the reduction of Chelan PUD's obligation at Chiwawa Ponds provides an opportunity to have steelhead at Chiwawa Ponds, and that strategies to address BKD should not interfere with the use of the pond to rear steelhead.

#### **VII Chewuch Trap Status (Kirk Truscott)**

Kirk Truscott updated the Committees that there was no new progress regarding the status of the Chewuch Trap. Ali Wick agreed to check with Carmen Andonaegui of WDFW and update the Committees on Andonaegui's findings regarding the Chewuch Trap issues.

#### **VIII 1196 Permit Draft Modification (Kirk Truscott)**

Kirk Truscott updated the Committees that he would like to have comments on the 1196 Permit Modification document by March 23. Truscott will give a status update on this draft modification at the next meeting.

#### **IX Chiwawa Water Subcommittee Update (Chuck Peven)**

Chuck Peven updated the Committees that the subcommittee of Peven, Steve Wiest, Bob Rogers, and Rick Stilwater convened to look at a schedule of switching sources for the Chiwawa Ponds facility. Andrew Murdoch commented that it would be useful to know how much reduction in Wenatchee River water this switching would allow throughout the year. Peven agreed to contact Waikele Hampton of Chelan PUD regarding Ecology water mixing issues at Chiwawa Ponds and to contact Steve Wiest of Chelan PUD regarding modeling potential annual water needs from the Wenatchee and Chiwawa Rivers. Peven also updated the Committees that Steve Wiest has evaluated the site for an infiltration gallery and has indicated that anchor ice would likely be a problem with this setup. Wiest has additional work planned to look at the site concerns more thoroughly. This item will continue to be discussed at the next meeting.

**X Skaha Meeting Update (Shaun Seaman)**

Shaun Seaman updated the Committees that a meeting was held to focus on issues related to the Skaha program; attendees included Chelan PUD, Grant PUD, Douglas PUD, US Fish and Wildlife Service, Washington Department of Fish and Wildlife, the Colville Confederated Tribes, the Okanagan Nations Alliance, and the Department of Fisheries and Oceans Canada. Chelan PUD views the Skaha sockeye program as a viable means to deal with its sockeye obligations and frame these within the context of available programs. Shaun Seaman confirmed that potential funding for this project will be needed in October, and so the decisions to get to this are laid out in the Decision Calendar provided to the Committees. Seaman requested that Committees members communicate input or concerns regarding this program to him for the May meeting.

**XI Other Issues (Mike Schiewe)**

The next meeting will be held Wednesday, April 20, 2005 in Wenatchee, Washington.

**List of Meeting Minutes Attachments**

Attachment A: List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman*	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Tom Kahler	Douglas PUD
Chris Carlson	Grant PUD
Chip McConnaha	Jones and Stokes
Kristine Petersen *	NOAA Fisheries Service
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Rick Stilwater	WDFW
Andy Appleby	WDFW
Casey Baldwin	WDFW
Andrew Murdoch	WDFW
Bob Rogers	WDFW
Bob Rose	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Chuck Peven, Keith Truscott, Erich Wolf, Keely Murdoch, Scott Buehn  
**Date:** May 19, 2005  
**Re:** Final Minutes of April 20, 2005 HCP Hatchery Committees Meeting

---

The Wells, Rocky Reach, Rock Island Dams Habitat Conservation Plans (HCP) Hatchery Committees met at the Chelan PUD Service Building in Wenatchee, Washington on April 20, 2005 from 11:00 am to 2:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick agreed to send out invitations and information for a conference call on broodstock collection protocols, scheduled for April 29 at 2 pm [sent on April 20] (Item II).
- Kris Petersen agreed to send Ali Wick the web link to the draft Section 10 permit (1196 document) for dissemination to the Hatchery Committees for their use in reviewing the Washington Department of Fish and Wildlife (WDFW) draft broodstock collection protocols (Item II).
- Ali Wick agreed to verify the location of the draft Douglas Monitoring and Evaluation (M&E) Plan on the Anchor Environmental (Anchor) FTP site and notify the Hatchery Committees [Hatchery Committees notified of its location on April 20] (Item IV).
- Tom Scribner agreed to contact Mike Schiewe during the week of April 18 regarding the Yakamas' interest in a joint letter from the Hatchery Committees to Senator Linda Evans Parlette regarding plans for Chelan Falls (Item V).

### **DECISION ITEM SUMMARY**

- There will be a Hatchery Committees conference call on April 29 at 2 pm to discuss WDFW broodstock collection protocols.



- Hatchery Committees members will provide comments to Chuck Peven of Chelan PUD on the feasibility studies (Attachments B and C) by April 27.

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the March Meeting Minutes. The Meeting Minutes were approved with minor amendments following Kris Petersen's review (Ali Wick will send out final Meeting Minutes by email [sent April 20]). See Attachment A to these Meeting Minutes for the list of attendees.

### **II 2005 Broodstock Collection Objectives and Protocols (Kirk Truscott)**

Kirk Truscott introduced the revised draft of the 2005 broodstock collection objectives and protocols. Kirk Truscott confirmed that this document is consistent with permit authorizations, and indicated that no adjustments have been made based on the low numbers of returning fish counted to date at Bonneville Dam. He commented that this document is structured to be modified if needed to reflect the new data; any changes will be approved through the Committee process.

Hatchery Committees members had the following questions:

Q: How would low adult returns at Bonneville Dam affect the protocols?

A: Kirk Truscott: They would be expected to affect the totals of adult fish collected and would likely affect WDFW's ability to meet current production levels, especially in those programs that incorporate broodstock of natural origin.

Q: How would the tiered operation be handled?

A: Kirk Truscott: This is included in the permit. Although not locked into this approach, the Hatchery Committees have the option to adjust collection protocol based on the numbers of fish expected to return. We may need a conference call to look at this.

Q: What is the Hatchery Committees members' current thinking on trapping fish at Wells and in the tributaries?

A: Kris Petersen: It is [National Marine Fisheries Service's] NMFS' opinion that, at this time, trapping fish in the tributaries would be more beneficial to the recovery of the run than trapping fish at Wells.

Q: If the run of spring Chinook comes back in excess at Chiwawa, are there any plans to increase the fish numbers at Peshastin Creek?

A: Kirk Truscott: Not unless authorized by NMFS (under Section 10 permit [1196 document]); WDFW wouldn't pursue this unilaterally.

It was agreed that another Hatchery Committees meeting or call would be required in order to approve these protocols. Ali Wick agreed to send out invitations and information for a conference call, scheduled for April 29 at 2 pm. Also, Hatchery Committees members expressed interest in viewing the details of the draft Section 10 permit (1196 document). Kris Petersen agreed to send Ali Wick the link to the draft Section 10 permit (1196 document) for dissemination to the Hatchery Committees and for use in reviewing the protocols.

Additionally, Tom Scribner noted that coho salmon protocols were not included in these protocols; Kirk Truscott confirmed that they will be included once they have been received from the Yakama Nation. Scribner noted that trapping capabilities are being discussed in order to enhance the coho salmon reintroduction program.

### **III Chiwawa Water Supply Update (Chuck Peven and Keith Truscott)**

Chuck Peven confirmed that Steve Wiest and Duncan Hay are planning to meet on Monday, April 23 to discuss the water supply issues at Chiwawa Ponds. Keith Truscott indicated that Chelan PUD plans to contact the Washington Department of Ecology regarding water switching options.

### **IV Chelan and Douglas PUD Draft Monitoring and Evaluation Plans (Chuck Peven and Shane Bickford)**

Chuck Peven updated the Hatchery Committees that comments from Kris Petersen and Brian Cates regarding the draft Monitoring and Evaluation Plan (M&E Plan) had been considered and mostly incorporated. Because not all of Petersen's comments were incorporated, Peven suggested that he, Petersen and Andrew Murdoch could meet to discuss the changes that were not incorporated, at Petersen's request. If there are issues that are not resolved in the potential meeting, then they will be vetted at the next meeting for discussion and decisions on how to proceed. The Hatchery Committees agreed that

Chelan's draft M&E plan could be distributed to a wider audience for a 30-day period. Tom Scribner indicated that the Yakama Nation (YN) will provide comments to Chelan PUD by May 15.

Shane Bickford updated the Hatchery Committees that the Douglas PUD draft M&E Plan should be available soon. There was some discussion that it may have already been posted. Ali Wick agreed to verify its location on the Anchor FTP site and formally notify the Hatchery Committees of its availability for download and comment.

#### **V Letter to Senator Parlette Regarding Summer Chinook at Chelan Falls (Chuck Peven)**

Chuck Peven indicated that Senator Linda Evans Parlette had expressed concern that decisions regarding the proposed conversion of the Turtle Rock subyearling Chinook program to a yearling program to be relocated to Chelan Falls) were not moving along quickly enough. He asked the Hatchery Committees members for their views on having Mike Schiewe send a letter on behalf of the Hatchery Committees to the Senator explaining progress to date, and indicating that the Hatchery Committees were supportive of the proposed time frame in which Chelan PUD is moving forward. It was discussed that this letter could also function as the opening of a formal line of communication between Senator Parlette and the Hatchery Committees.

In general, Hatchery Committees members indicated support of the Hatchery Committees' sending such a letter. Tom Scribner indicated that before stating an opinion, he first wished to check with Steve Parker of the YN to verify that Parker had been advised and was on board with the plans for relocating Turtle Rock summer Chinook to Chelan Falls. Scribner agreed to contact Mike Schiewe during the week of April 18 regarding the YN opinion on this letter.

#### **VI Section 10 Permit (1196 Document) Modifications (Kirk Truscott)**

Kirk Truscott updated the Hatchery Committees that there was no updated draft of the Section 10 permit (1196 document) at this time; WDFW is awaiting comments from the U.S. Fish and Wildlife Service (USFWS) and the YN. Kirk Truscott indicated that the Joint Fisheries Parties (JFP) are making progress and have discussed these modifications. There

is no formal timeline or date set for completion other than completion in time for 2006. Chuck Peven asked whether the Hatchery Committees are assuming that any costs to changes in operations discussed under these modifications would be covered by Chelan PUD; Kris Petersen indicated that yes, this assumption was made, but the assumption is that these costs should be minimal.

## **VII Other Issues (Mike Schiewe)**

### *A. Strategy development on the approach for fish with high levels of Bacterial Kidney Disease (BKD) at Chiwawa Ponds (Chuck Peven)*

Chuck Peven introduced this topic by noting that, if the Chiwawa spring Chinook program were reduced from 672,000 to 298,000 smolts, the program would still require using both rearing ponds. This would be necessary to accommodate rearing the BKD infected fish in the high enzyme-linked immunosorbent assay (ELISA) category at lower rearing densities. In recent years, about 20 to 30 percent of the returning adults were in the high ELISA category. Anticipating that this may result in “extra” fish being reared in some years, Peven asked the Hatchery Committees’ opinion on these three options:

1. Release the extra fish as unfed fry to Peshastin Creek.
2. Following initial rearing at Eastbank Hatchery, release fry into Peshastin Creek.
3. Increase or modify existing infrastructure to accommodate extended rearing of these fish.

Kirk Truscott indicated that WDFW would not be in agreement with either Option 1 or Option 2 and that Option 3 provided the best option for the Chiwawa spring Chinook. In general, Hatchery Committees members indicated that they would be reluctant to remove fish of natural origin from Chiwawa Ponds. Kirk Truscott indicated that these discussions are ongoing among the JFP and that the JFP will be working to develop consensus on this matter.

### *B. Debrief for Mid-Columbia Forum (Mike Schiewe)*

Mike Schiewe asked Hatchery Committees members on their opinions of the recent Mid-Columbia Forum. Hatchery Committees members responded that they would have liked to see more public involvement, suggesting more exposure in the media and possible evening sessions as ideas for increasing attendance. Brian Cates suggested that the results-based talks

of the fall and next spring seasons may help bring more interest; Kris Petersen suggested a rotating discussion focusing on the issues for various sub-basins as a possible format for future sessions.

*C. Feasibility Studies (Chuck Peven and Erich Wolf)*

Chuck Peven and Erich Wolf introduced Chelan PUD's new timeline for Chelan Fall Ponds (Attachment B) and the feasibility studies (Attachment C). Peven indicated that the conditions listed under the first row of boxes in the "Notes" column (powerhouse shut down and water source shifted) would be expected to occur very rarely, and that any effect on adult fish straying as a result of this event would be expected to be minimal. Chelan PUD would like to see comments from the Hatchery Committees on these documents by Thursday, April 27.

*D. All H Analyzer*

Chuck Peven asked whether the All H Analyzer and its user guide were available on the Anchor FTP site. Ali Wick confirmed with the Hatchery Committees that these items had been posted to the site and were now available for downloading.

*E. Next Meeting*

The next meeting will be held Wednesday, May 18, 2005 in Wenatchee, Washington.

**List of Attachments**

Attachment A—List of Attendees

Attachment B—New Chelan Pond Timeline

Attachment C—2005 Hatchery Feasibility Study Biological Requirements

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Keith Truscott	Chelan PUD
Chuck Peven	Chelan PUD
Scott Buehn	Chelan PUD
George Velasquez	Chelan PUD
Shane Bickford	Douglas PUD
Tom Kahler	Douglas PUD
Kristine Petersen *	NMFS
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Tom Scribner	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Rocky Reach and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Heather Bartlett, WDFW

**Date:** May 19, 2005

**Re:** Final Minutes of May 9, 2005 HCP Hatchery Committees Conference Call - Turtle Rock Conversion

---

Members of the Rocky Reach and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees and other interested parties met by conference call on Monday, May 9, 2005 from 2:00 pm to 2:30 pm to discuss relocation of the Turtle Rock Chinook Program to Chelan Falls, and conversion to a yearling program. A summary of Action Items is included at the beginning of this memorandum, followed by the Call Minutes. Attendees included are listed in Call Minutes Attachment A.

### **ACTION ITEM SUMMARY**

- There will be a decision item on the agenda at the May 18<sup>th</sup> HCP Hatchery Committees meeting regarding the conversion of the Turtle Rock program from a subyearling to a yearling program.

### **CALL MINUTES**

Mike Schiewe opened the call by introducing everyone and the reason for the call, which was to discuss the Yakama Nation's position on the conversion of the Turtle Rock program from a subyearling to a yearling program, and relocation to Chelan Falls. At the last Hatchery Committees meeting, Tom Scribner had requested some information regarding straying and survival comparisons (tables) from WDFW and this information was forwarded to the group. At that time, Scribner had indicated his intent to meet with Steve Parker of the Yakama Nation to discuss the proposed change.

Tom Scribner confirmed that he had spoken with Steve Parker. The Yakamas' position was that the tribe was not adverse to the change, and that they believe it may benefit the Yakama Nation's Zone 6 fishery.

Tom Scribner asked for clarification about any potential effects of the proposed yearling Turtle Rock program on spill programs for subyearlings in light of the prominence of yearling releases in the area. Chuck Peven of Chelan PUD responded by saying that the proposed program is not expected to affect spill programs because of the presence of wild subyearlings in the Columbia River.

Everyone on the call was in agreement that their respective agencies were on board with the proposed change. It was agreed that this will be a decision item at the next Hatchery Committees meeting as a conversion of the program from a subyearling to a yearling program.



**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Chuck Peven	Chelan PUD
Shaun Seaman *	Chelan PUD
Kristine Petersen *	NMFS
Kirk Truscott *	WDFW
Heather Bartlett	WDFW
Tom Scribner *	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Tom Kahler, Ali Wick  
**Date:** May 19, 2005  
**Re:** Final Minutes of May 10, 2005 HCP Hatchery Committees Conference Call - Broodstock Collection Protocols

---

Members of the Wells, Rocky Reach, Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees met by conference call on Tuesday, May 10, 2005 from 12:00 pm to 1:00 pm to discuss draft Broodstock Collection Protocols currently being prepared by WDFW. Attendees included are listed in Call Minutes Attachment A.

### **CALL MINUTES**

Mike Schiewe opened the call by listing the attendees and the reason for the call, which was to discuss the development of the Broodstock Collection Protocols by WDFW and the Hatchery Committees.

Kirk Truscott reviewed the context of the Excel tables provided to the Committees. These tables included data on estimated spring Chinook escapement to the Methow Basin, based on May 9, 2005 run size and composition at Bonneville Dam (Attachment B). Truscott confirmed that the TAC met on May 9<sup>th</sup> and the projection for spring chinook at Bonneville includes 73,000 to 88,000 fish.

With the exception of the Colville Tribes who were not represented on the call, the Committee agreed that the procedures as written in the draft broodstock protocols could begin, including trapping in the tributaries.

Kirk Truscott updated the Committee on the status of the Twisp trap, including the operational issues that are occurring there regarding deflation of the trap. Plywood has been installed to alleviate the problem, and the trap will be up and running as soon as flows allow.

Scribner asked for clarification on contingencies needed to get to program levels at Chiwawa and asked the Committee to consider taking hatchery fish at Tumwater to accomplish Chiwawa programs. Kirk Truscott indicated that a certain proportion of fish could be collected at Tumwater (30 spawning pairs, one-third of which are of natural-origin) and these fish could be held until 20 wild fish were collected. Scribner indicated that the Committee could expect approximately 43% of fish returning to Chiwawa to be wild fish. With the exception of the Colville Tribes who were not represented on the call, the Committee agreed with a limited collection of hatchery fish at Tumwater. This agreement will be revisited at the next Hatchery Committee meeting on May 18.

Mike Schiewe agreed to check in with the Colvilles regarding their opinion on the above discussions. There were no further discussions on the call.

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shane Bickford	Douglas PUD
Tom Kahler	Douglas PUD
Rick Klinge *	Douglas PUD
Kristine Petersen *	NMFS
Brian Cates	USFWS
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

---

**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Tom Kahler, Ali Wick, Dick Nason, Erich Wolf, Kevin Kytola, Dave Carie, Keely Murdoch

**Date:** June 15, 2005

**Re:** Final Minutes of May 18, 2005 HCP Hatchery Committees Meeting

---

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees met at the Chelan PUD Service Building in Wenatchee, Washington on May 18, 2005 from 9:30 am to 1:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- At the next Coordinating Committees meeting on May 24, Mike Schiewe will introduce for discussion whether or not the Policy Committees should send a letter to Senator Parlette (Item II).
- Chuck Peven agreed to revise the draft Turtle Rock Statement of Agreement to focus on the Turtle Rock program conversion, as well as address other issues brought up during this Hatchery Committees meeting, and to provide another draft to the Hatchery Committees for review (Item III).
- Ali Wick will set up a conference line and send details to the Hatchery Committees regarding the broodstock collection conference call on May 31 at 1:30 pm (Item IV).
- Chuck Peven is working with Steve Wiest of Chelan PUD on providing a feasibility study regarding Chiwawa water supply, which will be brought up for discussion at the next meeting (Item V).
- Chuck Peven and Rick Klinge will meet to discuss comments on the Chelan and Douglas PUD Monitoring and Evaluation (M&E) Plans. Rick Klinge will verify whether Andrew Murdoch's presentation on the Chelan M&E Plan, to be presented at the next meeting,

may include comments on the Douglas PUD M&E Plan, as they may differ from those for the Chelan PUD M&E Plan (Item VI).

- The next Hatchery Committees meeting will begin a day early, on June 14, and comments to the M&E Plans will be addressed in the afternoon of June 14 and continue through June 15 (Item VI).
- Chuck Peven will provide a draft white paper on Chelan PUD's proposed high Enzyme-linked Immunosorbent Assay (ELISA) strategies to the Hatchery Committees for comment by June 5 (Item VII).
- Hatchery Committees members agreed to submit comments on Hatchery Committees Operating Protocols to Mike Schiewe by June 15 (VIII).
- Hatchery Committees members agreed to provide questions and concerns on the Skaha sockeye program to Shaun Seaman one week before the next meeting so that the Okanagan Nation Alliance (ONA) receives it in time to address their questions and concerns during the meeting (Item X).

## **DECISION SUMMARY**

- Hatchery Committees members approved the sockeye salmon activities described in the letter from the Columbia River Intertribal Fish Commission (CRITFC) to Douglas and Chelan PUD (Item IX).

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting by asking for approval of the April Meeting Minutes. The Meeting Minutes were approved with minor amendments from the National Marine Fisheries Service (NMFS). In addition, the Meeting Minutes for the May 9 conference call on the Turtle Rock program were approved as amended, and the minutes for the May 10 conference call on broodstock collection protocols were approved with no amendments. (Ali Wick will send out all finalized minutes by email [sent May 19, 2005]).

### **II Letter to Senator Parlette (Mike Schiewe)**

Mike Schiewe introduced a discussion of whether a letter to Senator Parlette is necessary at this time, as discussed at the last meeting. Kris Petersen informed the Hatchery Committees that NMFS continues to be in favor of a letter written to Senator Parlette with the purpose of explaining the status of the HCP program. Mike Schiewe suggested that this letter might be

more appropriately sent from the Policy Committees. Mike Schiewe will bring this item to the Coordinating Committees for discussion at the meeting on May 24.

### **III Turtle Rock Island Conversion (Shaun Seaman)**

Shaun Seaman introduced Turtle Rock Island conversion to the Hatchery Committees, stating that Chelan PUD is still considering the feasibility of moving the Turtle Rock production to Chelan Falls, and that Chelan PUD wishes at this time to focus the discussion around whether the conversion of the program to a yearling program is appropriate as proposed in the draft Statement of Agreement (Attachment B). Shaun Seaman clarified that the draft Statement of Agreement is a discussion item at this meeting and is not up for approval today.

During the discussion of the potential relocation of the program, Tom Scribner voiced concern that the proposed program would preclude raising yearlings at both Turtle Rock Island and Chelan Falls; as currently envisioned, the proposal that Chelan PUD is evaluating involves moving the entire program to Chelan Falls and “moth balling” (Tom’s term) Turtle Rock. Tom Scribner also mentioned that the YN would not stand in the way of this conversion. Jerry Marco expressed concern that this conversion, as identified in the Biological Assessment Management Plan (BAMP) was a negotiation to move some fish above Rocky Reach; Jerry Marco would like clarification in the Statement of Agreement regarding the handling of the total number of fish to be released into the Wenatchee basin. Jerry Marco asked Chelan PUD to clarify the origin of these fish and to either clarify the role of the BAMP in the Statement of Agreement or to remove references to the BAMP. Mike Schiewe asked for clarification as to the role of the BAMP; Chuck Peven verified that the BAMP is a guidance document that is referred to in the project licenses, but is not otherwise legally binding. Kirk Truscott asked for clarification in the document as to how water source may affect homing fidelity, and commented that the document should mention the option of retaining some portion of a subyearling program at Turtle Rock Island.

Chuck Peven agreed to revise the draft Statement of Agreement to focus on the Turtle Rock program conversion, as well as address other issues brought up at this Hatchery Committees meeting, and to provide it to the Hatchery Committees for review. Chuck Peven updated the group that the Chelan PUD Commissioners will be addressing the Turtle

Rock program at a meeting on June 13; at this time, it is unclear whether the Commissioners will make any decision on location issues.

#### **IV 2005 Broodstock Collection Objectives and Protocols (Kirk Truscott)**

Kirk Truscott introduced the 2005 broodstock collection objectives and protocols and clarified that the protocols had been revised per the recent Hatchery Committees conference calls and Technical Advisory Committee (TAC) estimates. Kirk Truscott commented that the collection of additional spring chinook for the Methow program is a carryover from the Applegate process in 2001 in which all parties agreed to production levels and stocks for the Chiwawa, Methow, and Wenatchee programs.

Tom Scribner expressed concern that the proposed protocols and in-season monitoring may not allow enough flexibility in collection to meet program goals for Chiwawa spring Chinook (e.g., 33 percent natural-origin fish in broodstock). Kirk Truscott responded that if returns meet this year's forecasts, there will be sufficient natural-origin fish to meet program goals, and in the past, Washington Department of Fish and Wildlife (WDFW) was able to adjust collection numbers at Tumwater to take into account low natural-origin fish returns at Chiwawa (Attachment C). Kirk Truscott clarified that fish are being collected at Tumwater at this time. The Committees discussed the notion of releasing these fish to the system if the fish ultimately represent excess broodstock. Kris Petersen, Dave Carie, and Kirk Truscott commented that, because these fish are routinely treated with erythromycin, releasing them would be problematic. Kris Petersen indicated that NMFS is supportive of WDFW's recent management of this system's collection levels and its contribution to juveniles and adult fish. Tom Scribner suggested increasing the initial collection of hatchery-origin fish at Tumwater. Kris Petersen commented that raising initial collection numbers in this way would tend to skew the run even more toward early returning fish, which is a situation that NMFS is not able to support. Jerry Marco commented that, in general, the Colville Tribes would support an increase in natural-origin fish in the broodstock.

The Hatchery Committees agreed to revisit this issue by conference call on May 31 at 1:30 pm, and base any changes on actual fish returns to Tumwater. Ali Wick will set up a conference line and send details to the group.



## **V Chiwawa Water Supply Update (Chuck Peven)**

Chuck Peven updated the group that Duncan Hay is estimating the amount of water at the Chiwawa water supply intake to preclude frazil ice development. Chuck Peven is working with Steve Wiest of Chelan PUD to provide a feasibility study regarding Chiwawa water supply intake at the next meeting. Steve Wiest is working on a letter to the Washington Department of Ecology describing the proposed water changes; this is in draft form. Chuck Peven has also been in contact with Andy Dittman of NMFS—Northwest Fisheries Science Center to discuss a potential homing study at Chiwawa; Chuck Peven will update the group on these discussions at the next meeting.

## **VI Monitoring and Evaluation Plans (Chuck Peven/Rick Klinge)**

Mike Schiewe confirmed that the deadline for comments from the broader audience outside the Hatchery Committees to the Chelan PUD M&E Plan is today. Chuck Peven extended the deadline for comments until May 31. Rick Klinge provided confirmation that the Douglas PUD M&E Plan had been submitted on April 21 and Douglas PUD requests comments by May 31, as well. Chuck Peven and Rick Klinge will meet to discuss comments to both M&E Plans. At the next meeting, Chuck Peven and Andrew Murdoch will provide a presentation on the comments; Rick Klinge will verify whether the presentation may include comments to the Douglas PUD M&E Plan, as they may differ from those for the Chelan PUD M&E Plan.

The next Hatchery Committees meeting will begin a day early, on June 14, and comments on the M&E Plans will be addressed in the afternoon of June 14 and continue on June 15.

## **VII High ELISA White Paper (Shaun Seaman)**

Shaun Seaman introduced this topic, indicating that Chelan PUD is preparing a white paper that presents various management options for high ELISA subyearling hatchery fish. The goal is to reduce the risk of transmission of Bacterial Kidney Disease to other hatchery fish. The white paper will provide an outline of strategies for handling Chelan PUD's BKD issues within or outside of the hatchery environment and the implications of those strategies. Kris Petersen commented that the Joint Fisheries Parties (JFP) has had similar discussions and she would like to discuss Chelan PUD's effort with the JFP soon. Keely Murdoch suggested

that the white paper should address how these strategies may affect M&E actions. Kirk Truscott suggested that this white paper should be consistent with the guidelines presented in the Chelan PUD Facilities Evaluation Report. Chuck Peven intends to provide this white paper to the Hatchery Committees for comment by June 5.

### **VIII Operating Protocols (Mike Schiewe)**

Mike Schiewe introduced the Operating Protocols for the Hatchery Committees; comments are due by June 15 to Mike Schiewe, with the intent to finalize the document at the July meeting.

### **IX Letters from CRITFC (Rick Klinge)**

Rick Klinge introduced this topic by describing a letter on adult scale sampling that was sent by CRITFC to Douglas PUD and Chelan PUD. Hatchery Committees members agreed that the sockeye salmon sampling activities described in this letter were acceptable to the Hatchery Committees.

### **X Skaha Sockeye Program (Shaun Seaman)**

Shaun Seaman introduced the Skaha sockeye program to the Hatchery Committees and introduced the draft Statement of Agreement provided for discussion during the meeting (Attachment D). Shaun Seaman asked that the Hatchery Committees members provide questions and concerns regarding the program to him. Shaun Seaman said that it would be helpful to have their questions and concerns a week before the next meeting so that ONA receives it in time to address them during the meeting.

### **XI Other Issues (Mike Schiewe)**

#### *A. Letter from WDFW to NMFS Regarding Summer/Fall Chinook Radio Tagging (Rick Klinge)*

Rick Klinge informed the Hatchery Committees that radio tagging of summer/fall chinook will occur at Wells Dam in 2005; this effort will be consistent with summer/fall chinook broodstock collection.

#### *B. Coho Reintroduction and the HCPs (Tom Scribner)*

Tom Scribner asked the Hatchery Committees members to begin to consider the coho reintroduction process; at this point, the Technical Working Group is viewing this as

either a hatchery program or a naturally-spawning program. The HCPs requires the Hatchery Committees to determine whether there is a viable natural spawning or hatchery program for coho salmon on the following schedule: 2005 at Rock Island, 2006 at Rocky Reach, and 2006 at Wells Dam. In addition, the Yakama Nation provided a proposal to NMFS this week for the coho program and will be subsequently discussing it with Douglas PUD.

C. *Next Meeting (Mike Schiewe)*

The next meeting will be held over two days: the afternoon of Tuesday, June 14 and will reconvene at 9:30 am on Wednesday, June 15, 2005. The meeting will be held at the Radisson Hotel at SeaTac.

**List of Attachments**

Attachment A—List of Attendees

Attachment B—Draft Statement of Agreement for Turtle Rock

Attachment C—Preliminary Summary of 2004 Brood Chiwawa Spring Chinook, WDFW

Attachment D—Draft Statement of Agreement for Skaha Lake Sockeye

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Tom Kahler	Douglas PUD
Dick Nason	DNC
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Erich Wolf	Sapere Consulting, Inc.
Kevin Kytola	Sapere Consulting, Inc.
Dave Carie	USFWS
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Shane Bickford, Ali Wick  
**Date:** May 31, 2005  
**Re:** Final Minutes of May 31, 2005 HCP Hatchery Committees Conference Call - Broodstock Collection by WDFW

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Members of the Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees met by conference call on Tuesday, May 31, 2005 from 1:30 pm to 2:00 pm to discuss broodstock collection by WDFW. Attendees included are listed in Attachment A.

### **CALL MINUTES**

Mike Schiewe opened the call by listing the attendees and the reason for the call, which was to discuss broodstock collection by WDFW.

Kirk Truscott updated the Committees that 66 spring chinook had passed Tumwater and 40 hatchery- origin fish had been collected as of today. At this point, there are not enough natural- origin fish past Tumwater Dam to warrant collecting additional hatchery-origin fish. Truscott will provide emailed weekly updates on fish collection for the Committees' further information, beginning this Monday, June 6.

Truscott updated the group that 75 spring chinook had been collected for the Methow Fish Hatchery program: 70 fish from the Methow FH outfall, 2 fish from the Chewuch, and 3 fish from the Twisp. All Chinook retained from the Chewuch and Twisp are natural origin. There were no further discussions on the call.

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shane Bickford	Douglas PUD
Rick Klinge *	Douglas PUD
Kirk Truscott *	WDFW
Kris Petersen *	NMFS

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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Chuck Peven, Keely Murdoch, Deana Machin, Erich Wolf, Ali Wick  
**Date:** July 22, 2005  
**Re:** Final Minutes of June 14, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at the Radisson Hotel Gateway in SeaTac, Washington on June 14, 2005 from 9:30 am to 5:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the May 18 Meeting Minutes and May 31 Conference Call Minutes to the Hatchery Committees by email [sent June 15, 2005] (Item I).
- Ali Wick will arrange for Andrew Murdoch to make a presentation to the Hatchery Committees in the fall on the history of Lake Wenatchee sockeye program (Item I).
- At an upcoming Joint Fisheries Parties (JFP) meeting, Andrew Murdoch and Dave Carie will provide an update on how BKD has been addressed and managed elsewhere (Item III).
- The Chelan PUD draft white paper on BKD issues will be discussed at the upcoming JFP meeting, as well. The JFP will report on their recommendations of biological objectives with regard to BKD issues at the next Hatchery Committees meeting (Item III).
- All Hatchery Committees members will provide any comments or concerns to Chelan PUD regarding the Okanagan Nation Alliance (ONA) Workplan presented at the Hatchery Committees meeting (Item VI).
- Kirk Truscott will send out replacement pages to the 2005 Broodstock Collection Protocols that address potential changes to the total number of broodstock collection for Wells Summer Chinook and Wells Summer Steelhead (Item V).

- Rick Klinge will investigate why the current design of new Wells Hatchery screens is not set to maximize Douglas PUD's water right of 150 cfs (Item VI).
- Ali Wick will provide the Chiwawa Water Supply Feasibility Study Report and relevant historical Hatchery Committees Meeting Minutes to Tom Scribner and Keely Murdoch (Item VII).
- Shaun Seaman will send the 2005 Hatchery Study Biological Requirements and Mitigation Strategy Development and Implementation tables to Tom Scribner and to any Hatchery Committees members who have not received them yet (Item VII).

## **DECISION SUMMARY**

- Hatchery Committees members approved the 2005 Broodstock Collection Protocols with proposed Washington Department of Fish and Wildlife (WDFW) amendments (Kirk Truscott will send out replacement pages to the document) (Item V).

### **I Welcome and Meeting Minutes Approval (Ali Wick)**

Ali Wick opened the meeting by asking for approval of the May Meeting Minutes. The May 18 Meeting Minutes were approved with amendments and the May 31 Conference Call Minutes were approved with no amendments. Ali Wick will send the May 18 Meeting Minutes out by email [sent June 15, 2005]. Pursuant to an Action Item from the May 18 meeting, Shaun Seaman asked Ali Wick to coordinate with Andrew Murdoch to arrange a presentation for the Hatchery Committees in the fall on the history and Monitoring and Evaluation (M&E) of the Lake Wenatchee sockeye program.

### **II Chelan and Douglas PUD Monitoring and Evaluation Plan Comments (Chuck Peven and Rick Klinge)**

Chuck Peven introduced the Draft Chelan PUD M&E Plan and mentioned that he had incorporated recent comments received from the Yakama Nation, U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), Jim Lichatowich, Steve Smith (formerly of NMFS), Tracy Hillman, and Dick Nason. Chuck Peven discussed the edits to the M&E Plan, and proposed edits were accepted or revised as necessary to the Hatchery Committees' satisfaction. Rick Klinge noted that the Douglas M&E Plan edits will be similar to the Chelan M&E Plan edits, with necessary differences based on content.



One issue regarding the edits was discussed, but may require follow-up discussion during the comment incorporation process. The Yakama Nation may want more information in the Chelan PUD M&E Plan regarding reference stream selection. The concern centered around whether study stream and reference streams have different baseline egg-to-smolt survivals (particularly if reference stream egg-to-smolt survival is lower than study stream) and whether this could affect achievement of M&E objectives. Peven noted that a recent paper by Tracy Hillman details how reference streams were selected and indicated that a similar method of selection was anticipated for the work conceptualized in the M&E Plan.

The Hatchery Committees agreed that the frameworks of the Chelan and Douglas PUD M&E Plans are in place and that a limited number of final details will need to be discussed prior to finalization. The HCPs provide that the M&E Plans be completed by June 21, 2005, 1 year after Federal Energy Regulatory Commission (FERC) approval. At this time, the Hatchery Committees are satisfied with the progress to date and will note in the Annual Report to FERC that the additional time needed to finalize the details is acceptable. It was discussed that Mike Schiewe should convey this information to the Coordinating Committees at the next Coordinating Committees meeting.

### **III Chelan PUD Draft White Paper on BKD Issues**

Shaun Seaman informed the Hatchery Committees that Chelan PUD has prepared a draft white paper on BKD issues and offers it as a starting point for discussion at future meetings. Chelan PUD hopes to collaborate with the Hatchery Committees to resolve the issues discussed in the white paper by the end of 2005. Kris Petersen indicated that at the next JFP meeting, Andrew Murdoch of WDFW, and Dave Carie of USFWS will present information available to date regarding BKD issues, including a recent graduate student study report. Chuck Peven reported that Mike Schiewe spoke with Diane Elliott at NMFS, and she indicated that in some of her research, high Enzyme-linked Immunosorbent Assay (ELISA) fish do not typically return as adults in the same numbers as other hatchery fish. Tom Scribner reported that the Methow Hatchery has documented high returns of high ELISA fish. Kris Petersen reported that limited data exists that answers the question of whether high ELISA smolts return as high ELISA adults. Brian Cates reported that high ELISA adult returns to the hatchery typically die in high numbers before spawning, if not inoculated.

It was discussed that the JFP will meet on Tuesday, July 12, at 10:00 am in Portland, Oregon. The JFP will report on their recommendations of biological objectives with regard to BKD issues at the next Hatchery Committees meeting. This information will be considered at the next meeting, as well as legal options and any other information provided by the Hatchery Committees members. If Hatchery Committees members wish to provide additional comments to Chelan PUD prior to the next meeting, Chuck Peven asked them to provide them to him by July 15 (5 days before the next meeting).

#### **IV Okanagan Sockeye Presentation (Shaun Seaman, Deana Machin, and Howie Wright)**

Shaun Seaman introduced Deana Machin and Howie Wright from ONA, who provided a Workplan and some background on the reintroduction program for sockeye salmon into Skaha Lake. Highlights of the presentation and discussion include the following:

- There is a 12-year pilot project with commitment from Canadian agencies.
- Kim Hyatt estimates that without supplementation, the stock would be facing extinction within 20 years.
- The program will be assessed yearly, although it is expected that it will take multiple life cycles to determine success or impacts of the ONA program.
- Fish will be released as fry; they are expected to outmigrate as 1+ year smolts.
- IHN (Infectious hematopoietic necrosis) is present in Okanagan sockeye, but has not been detected in hatchery fish.
- Don McQueen has been hired to investigate bioenergetics and the “trophic triangle” between sockeye, kokanee, and Mysids.
- Shingle Creek, where fry are released, has limited spawning habitat.
- Broodstock will not be limited to natural-origin fish returns.
- Since the fish are released as fry, the ONA does not outwardly mark the total production. However, incubation temperature is modified, and a “code” is embedded on their otoliths, which can be read after collected.
- The ONA program can partially meet PUD smolt obligation initially (the combined Grant and Chelan PUD smolt obligation is 1.2 million assuming a 60\40 split for Grant’s obligation between the Wenatchee and the Okanogan). The facility’s maximum capacity is 2 million eggs, although 2 years out of every 4 years the capacity is only 1 million. Based on ONA estimates, this program would result in 700,000 and 350,000 smolts, respectively until additional hatchery capacity is acquired.

Following this presentation, Tom Scribner initiated a discussion of M&E and the evaluation of the ONA program's positive contribution to re-introducing sockeye. ONA indicated that they welcome collaboration with funders for an adaptive monitoring program to study these parameters of interest. If the PUDs contribute to the project, Hatchery Committees members will be invited to participate in discussions guiding the future direction of the project. In addition, Deana Machin stated that the program allows yearly evaluation meetings and an evaluation at the end of the 12-year project period, whereby ONA can reverse the program to exclude sockeye from Skaha Lake through a controlled upstream migration barrier at the lake's outlet. Jerry Marco described a previous unsuccessful sockeye hatchery program, which entailed adult collection at Wells Dam, extended holding, and an accelerated smolt release program and net penning in the southern basin of Lake Osoyoos. Howie Wright indicated that the ONA program differs in that adults cannot be held for an extended period of time and that fry handling will be minimal.

Deana Machin will provide the Risk Assessment summary to the Hatchery Committees, as well as the 2003 Management Plan and the bioenergetics study mentioned in the Workplan that was discussed at today's meeting. ONA will need a decision from the Hatchery Committees on funding in approximately 2 to 3 months. All Hatchery Committees members agreed to provide any comments or concerns to Chelan PUD regarding the ONA Workplan presented at the meeting.

#### **V 2005 Broodstock Collection Protocols (Kirk Truscott)**

Kirk Truscott indicated that WDFW seeks approval of the 2005 Broodstock Collection Protocols. WDFW is currently implementing the 2005 Broodstock Collection Protocols as their collection protocol, operating the Chiwawa weir on a 4-day-on, 3-day-off schedule. Tom Scribner expressed the Yakama Nation's concern that program numbers may not be achieved in part due to the 2005 Broodstock Collection Protocols, but recognized that this issue should be revisited between the Yakama Nation and NMFS. Truscott indicated that there are potential changes in the document with regard to the total number of broodstock collection for Wells Summer Chinook and Wells Summer Steelhead. Kirk will send out these changes as replacement pages for the protocols. Hatchery Committees members approved the 2005 Broodstock Collection Protocols with proposed WDFW amendments.

## **VI Update: Douglas PUD (Rick Klinge)**

### *A. Discussion of Twisp Weir*

Rick Klinge indicated that the modifications made to improve trapping efficiency at the Twisp Weir have shown some promise; however, broken air bladder pillows that allow the system to be operated entirely from shore are still a concern and the subject of discussion at Douglas PUD. Douglas PUD would like to switch to a 7 days/week protocol for weir operation; this is allowed under the existing NMFS permit. The broodstock collection restriction for weir operation includes releasing two out of three natural-origin adult salmon. Kirk Truscott indicated that WDFW will switch over to 7 days/week starting Monday, June 20. Currently, the target number of adult salmon is 120, and so far there have been only 5 to 7 fish, all natural-origin.

### *B. Chewuch Trap Signatures and Permits*

Rick Klinge updated the Hatchery Committees that Douglas PUD expects an approval signature from the InterAgency Council (IAC) in June, and then they will move forward with the trap permitting. Douglas PUD intends to implement construction this fall and winter because Fulton Dam is slated for removal soon. Without Fulton Dam, there is no broodstock collection station on the Chewuch River.

### *C. Plans for Wells Hatchery Screen—Surface Water Intake*

Rick Klinge updated the Hatchery Committees that NMFS has requested new screens for the Wells Hatchery. Currently, Douglas PUD's water right is 150 cfs, but only runs up to 100 cfs for attraction flow. The new screen will meet all new screening requirements, and the new screen will be in a shallower location than the current screens. The most recent design included piling, which can lead to both permitting difficulties and slope failure. Therefore, plans are currently being redesigned. Rick Klinge's understanding is that the Douglas PUD is required to get the new screens in place by end of 2005. At the request of the Hatchery Committees members, Klinge will investigate the reasons why the design does not currently maximize the PUD's water right of 150 cfs.

*D. Comments/Review Period Ends for Douglas PUD Documents*

Rick Klinge reminded the Hatchery Committees that the 60-day comment period is now closed for two documents previously provided to the Hatchery Committees:

- 2004 Spring Chinook Spawning surveys in the Methow by C. Snow
- Wells Fish Hatchery 2002 Broodyear memorandum by C. Snow

**VII Update: Chelan PUD (Shaun Seaman)**

*A. Chiwawa Water Supply*

Shaun Seaman updated the Hatchery Committees that Chelan PUD has sent a letter to Washington Department of Ecology (Ecology) regarding water mixing of Wenatchee and Chiwawa river water. Chelan PUD has not officially heard back from Ecology; however, Ecology initially commented that DOE needs to consider ramifications of the 6 cfs withdrawal from the 1/4-mile section of the Wenatchee River. Steve Wiest is working on a calculation regarding the amount and timing for the potential addition of Wenatchee River water; this should be available by the next meeting. Ali Wick agreed to provide the Chiwawa Water Supply Feasibility Study Report and relevant historical Hatchery Committees Meeting Minutes to Tom Scribner and Keely Murdoch.

*B. Hatchery Updates*

Similkameen water quality study: Shaun Seaman updated the Hatchery Committee that Chelan PUD will require its full 7,500 gpm water right from the well field for rearing westslope cutthroat at the Chelan Falls Hatchery. The current well field is only producing about half that amount and a study needs to start this year to determine what actions are needed to acquire the full right. There is a need to start this process this year and in order to do so Chelan is shifting study funds from the Similkameen water quality study to this project. Some work will be performed on the Similkameen project to be prepared for additional work on the Similkameen project in 2006. If Chelan PUD is able to obtain funding later in the year, then the Similkameen Hatchery project will regain its full funding; however, the Similkameen Hatchery schedule is not expected to slide as a result of the transfer of funds within the PUD.

Chelan Falls: Seaman expects that the estimated costs for constructing rearing ponds at Chelan Falls will be available at the next meeting.

Eastbank: The Eastbank spawning structure study has not yet begun.

Implementation at Hatcheries: Seaman mentioned that Chelan PUD has updated the 2005 Hatchery Study Biological Requirements and Mitigation Strategy Development and Implementation tables. Seaman agreed to forward these to Tom Scribner and to any Hatchery Committees members who have not received them yet.

### **VIII Other Issues (Ali Wick)**

#### *A. Draft Operating Protocols*

Ali Wick reminded the Hatchery Committees that the deadline for submitting comments to the Draft Operating Protocols to Mike Schiewe is June 15, 2005.

#### *B. Next Meeting (Ali Wick)*

The next meeting will be held on Wednesday, July 20, 2005. The meeting will be held at Chelan PUD in Wenatchee.

### **IX List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Ali Wick	Anchor Environmental, L.L.C.
Paul Schlenger	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Deana Machin	Okanagan Nation Alliance
Howie Wright	Okanagan Nation Alliance
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Chuck Peven, Keely Murdoch, Erich Wolf, Ali Wick  
**Date:** August 19, 2005  
**Re:** Final Minutes of July 20, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at Chelan PUD in Wenatchee, Washington on July 20, 2005 from 9:00 am to 3:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final June 14 Meeting Minutes to the Hatchery Committees by email [sent July 22, 2005] (Item I).
- Mike Schiewe will modify the Hatchery Committees Operating Protocols and circulate them to Hatchery Committees members for final approval (Item II).
- Mike Schiewe will develop a work plan for compiling and synthesizing information management of bacterial kidney disease (BKD)-infected salmon (Item IV).
- Mike Schiewe will prepare a Statement of Agreement to document the approval of the Chelan PUD Monitoring and Evaluation (M&E) Plan. Mike Schiewe will prepare a similar Statement of Agreement for the Douglas PUD M&E Plan, which will be up for approval at the next meeting (Items V and VI).
- Ali Wick will re-send the Douglas PUD M&E Plan and FTP site link to the Hatchery Committees (Item VI).
- Mike Schiewe will convene with Chelan PUD and the Yakama Nation to discuss developing specific criteria to be applied to deciding whether or not a hatchery program and/or a naturally-reproducing coho population exists (Item VIII).
- Prior to the next meeting, Shaun Seaman will provide proposed feasibility studies for 2006 for discussion during the meeting (Item IX).



## **DECISION SUMMARY**

- Hatchery Committees members approved the Hatchery Committees Operating Protocols subject to changes discussed at the meeting (Item II).
- Hatchery Committees members approved the amended Skaha Reintroduction Statement of Agreement subject to final email approval and approval by the Chelan PUD Board of Commissioners (Item III).
- The Hatchery Committees approved the Chelan PUD M&E Plan subject to changes discussed at the meeting (Item V).

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Hatchery Committees approved the June 14 Meeting Minutes with no amendments. Ali Wick will send the Final June 14 Meeting Minutes by email [sent July 22, 2005]. Attendees are listed in Attachment A to these Meeting Minutes.

### **II Decision: Hatchery Committees Operating Protocols (Mike Schiewe)**

Mike Schiewe proposed several changes to the Hatchery Committees Operating Protocols regarding meeting times, the selection of meeting facilitators in the event of the Hatchery Committee Chair's absence, and the procedure for modifying the Operating Protocols if needed. In addition, Hatchery Committees members discussed adding language regarding the attendance of interested parties at Hatchery Committees meetings and expressed interest in being informed prior to the meetings about potential attendees from outside the signatory agencies. The Hatchery Committees members approved the Operating Protocols subject to these changes. Mike Schiewe agreed to modify these Operating Protocols and circulate them to the Hatchery Committees for final approval.

### **III DECISION: Skaha Reintroduction Statement of Agreement (Shaun Seaman)**

The Hatchery Committees discussed proposed changes to the Skaha Reintroduction Statement of Agreement and amended and approved the document subject to final email approval and approval by the Chelan PUD Board of Commissioners (Attachment B).

#### **IV Work Session: BKD Management (Chuck Peven)**

Chuck Peven updated the Hatchery Committees that he had conferred with Oregon Department of Fish and Wildlife fish pathologists Toni Amandi and Craig Banner regarding the definition of “high” BKD levels and some anecdotal evidence they have observed regarding reduced outbreaks and lower incidence of BKD in chinook and coho salmon following culling of high BKD fish. The researchers believed that the reduced incidence was attributable to culling and, in the long term, would reduce the likelihood of perpetuating BKD. The Hatchery Committees discussed this issue as a regional concern and an issue that has broad implications outside the purview of the Hatchery Committees. Mike Schiewe agreed to develop work plan for compiling and synthesizing information on management of BKD-infected salmon. Information collected under the work plan would be used to better inform a Hatchery Committees recommendation on BKD management.

#### **V Decision: Chelan PUD M&E Plan (Chuck Peven)**

The Hatchery Committees discussed additional proposed edits to the Chelan PUD M&E Plan. Key editing points included the following:

- Emphasizing the conceptual nature of the Chelan PUD M&E Plan
- Considerations for verifying the Entiat River as an appropriate reference stream for hatchery programs
- Considering in-basin biological components in light of comparable empirical data
- Clarifying the definition of DNA pedigree analysis

The Hatchery Committees approved the Chelan PUD M&E Plan subject to these suggested changes. Mike Schiewe will prepare a Statement of Agreement to document the approval of the Chelan PUD M&E Plan.

#### **VI Update: Douglas PUD M&E Plan (Rick Klinge)**

Rick Klinge updated the Hatchery Committees that Douglas PUD has provided the Douglas PUD M&E Plan for Hatchery Committee review and requests that Hatchery Committees members review it for approval at the August meeting. Some Hatchery Committees members noted that they were not able to open the document; Ali Wick agreed to check the FTP site link and re-send the Douglas PUD M&E Plan to the Hatchery Committees. Once the Douglas PUD

M&E Plan has been approved, Mike Schiewe will prepare a Statement of Agreement to document the approval.

## **VII Updates: Douglas PUD (Rick Klinge)**

### *A. Comments/Review on Passive Integrated Transponder (PIT) Tag Survival Comparison Study*

Rick Klinge updated the Hatchery Committees that the review period for this document is now complete.

### *B. Wells Hatchery Screens and Water Right*

Rick Klinge updated the Hatchery Committees that while the new Wells Hatchery screens were designed to divert 100 cubic feet per second (cfs) most of the time, the screens would retain the capability to divert 150 cfs as a maximum. Douglas PUD is pursuing implementing these new designs rather than fixing the old system because fixing the old system was determined to be cost-prohibitive.

### *C. Chewuch Weir*

Tom Kahler updated the Hatchery Committees that permit applications for the Chewuch weir have been submitted for agency review; the U.S. Army Corp of Engineers is currently reviewing the Biological Evaluation. Design issues are being discussed internally at Douglas PUD.

### *D. Grant PUD Request for Study Fish from Wells Hatchery*

Rick Klinge updated the Hatchery Committees that Grant PUD requested from Douglas PUD up to 100,000 steelhead for PIT-tagging studies. This request may change the currently approved broodstock collection protocols and may require additional rearing space than what is currently available at Wells Hatchery. Klinge will keep the Hatchery Committees updated on these discussions.

## **VIII Updates: Yakama Nation**

### *A. Potential Surplus of Summer Chinook Salmon at Wells Hatchery*

Tom Scribner updated the Hatchery Committees that the Yakama Nation is working with Washington Department of Fish and Wildlife (WDFW) to obtain a portion of the surplus of summer chinook salmon from Wells Hatchery for its tribal needs.

### *B. Coho Criteria*

Tom Scribner informed the Hatchery Committees that the Yakama Nation would like to

initiate discussions regarding coho mitigation at this time because the Rock Island HCP require a decision in 2005 regarding whether or not a hatchery program and/or a naturally-reproducing coho population exists. Mike Schiewe will convene with Chelan PUD and the Yakama Nation to discuss developing specific criteria to be applied to deciding whether or not a hatchery program and/or a naturally-reproducing coho population exists; this group will report to the Hatchery Committees on their findings at future Hatchery Committee meetings.

## **IX Updates: Chelan PUD:**

### *A. 1196 Permit Status*

National Marine Fisheries Service (NMFS) and WDFW were absent for this agenda item, so this update was tabled until the next meeting.

### *B. Feasibility Studies and 2006 Planning*

- 1. Chiwawa water Supply Update:* Shaun Seaman is waiting for an update from the engineers working on this project.
- 2. Chelan Falls Rearing Ponds:* Feasibility studies are complete and Chelan PUD is reviewing these internally. Shaun Seaman will have an update on this at the next meeting.
- 3. Other Feasibility Studies:* The other ongoing feasibility studies are on schedule for delivery as previously planned. Prior to the next meeting, Chelan PUD will provide its proposed feasibility studies for 2006 for discussion during the meeting.

### *C. Entiat River as Reference Stream*

Chuck Peven updated the Hatchery Committees that he has attended a meeting with the Entiat Watershed Planning Unit and has had some preliminary discussions regarding the selection of the Entiat River as a reference stream. Chuck Peven would like to convene a subgroup of Hatchery Committees members to attend the next Entiat Watershed Planning Unit meeting on October 5 to continue discussions with this group regarding the selection of the Entiat River.

## **X Other Issues (Mike Schiewe)**

### *A. Department of Fisheries and Oceans – Canada: Forthcoming Documents*

Rick Klinge updated the Hatchery Committees that the Department of Fisheries and Oceans – Canada is currently preparing several documents relevant to the Sockeye Salmon Water Management Model, including the *Retrospective Analysis, Fish and Water Management*

*Tool Users' Guide, and Record of Design*; these documents should be available by the time of the next meeting.

*B. Next Meeting*

The next meeting will be held on Wednesday, August 17, 2005. The meeting will be held at Chelan PUD in Wenatchee.

**XI List of Attachments**

Attachment A—List of Attendees

Attachment B—Skaha Reintroduction Statement of Agreement

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Mike Tonseth	WDFW
Tom Scribner *	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member

**ATTACHMENT B**  
**SKAHA REINTRODUCTION STATEMENT OF AGREEMENT**

Funding of Skaha Lake Sockeye Salmon Reintroduction to fulfill Chelan PUD's HCP Mitigation for Okanogan Sockeye Salmon

Agreement Date: July 20, 2005

***Statement of Agreement and Associated Conditions***

The HCP Hatchery Committee (HCP HC) agrees that Chelan PUD will provide the funding and capacity to rear and monitor a portion of the Skaha Lake Reintroduction Program equivalent to a release of 591,040 smolts from Skaha Lake, thus meeting its Okanogan sockeye salmon mitigation responsibility.

***Program time frame***

The HCP HC will evaluate the program on a yearly basis and recommend changes to the Canadian Okanogan Basin Technical Workgroup (COBTWG), if new information warrants. A determination regarding the continuation of this program will be made in 2013 when the overall hatchery program is reevaluation. Therefore, the HCP HC agrees that the mitigation responsibilities of Chelan PUD will be met for Okanogan sockeye until 2013 unless new information becomes available and the HCP HC determines otherwise.

***Fry-to-smolt conversion***

Initially, Chelan PUD will provide the funding and capacity to raise between 1,182,080 and 1,477,600 fry to be released in the Okanogan River upstream of Skaha Lake. Survival from fry to smolt stage will be monitored using On going monitoring efforts will estimate fry-to-smolt survival. After four years of monitoring, the Committee will re-evaluate whether the number of fry released for the program is adequate to meet mitigation goals (other data will also be considered by the HCP HC, e.g., smolt survival at the mainstem dams, if available).

Decision process to meet Chelan PUD's mitigation obligation:

- If fry-to-smolt survival is <40%, re-evaluate and adaptively implement options that include those within or outside the existing program
- If fry-to-smolt survival is between 40-50%, maintain current program
- If fry-to-smolt survival is greater than 50%, decrease production levels

***Infrastructure needs***

In cooperation with the COBTWG, PUDs, and approval from the HCP HC (and the appropriate committee for Grant PUD), Chelan PUD will develop a timeline and implementation schedule to draft form within 6 months of this agreement date; this schedule will be approved by the HCP HC within 12 months of this agreement date. The objective of the schedule is to determine how and when new facilities will be built to meet program production level goals.

***Background***



In 2002, an ad hoc group of HCP signatories began meeting to determine how Chelan PUD could meet its Okanogan sockeye hatchery mitigation obligations. Many options were explored and discussed, but summer temperatures and potentially high levels of total dissolved gas precluded net pen rearing to smolt size in the Upper Columbia Basin. Lack of suitable water supplies and previous examples of poor success with standard hatchery rearing technology led to the conclusion that a yearling sockeye hatchery program was not feasible at that time.

In 2003, after several years of study and discussion, the Okanogan Nations Alliance (ONA) reached agreement with the various federal and provincial entities to begin a program that will attempt to reintroduce sockeye into Skaha Lake, British Columbia, upstream of the only current rearing lake for sockeye in the Okanogan, Lake Osoyoos.

Beginning in 2004, Chelan PUD began discussing the potential to partner with the ONA in their reintroduction effort to satisfy Chelan's Okanogan sockeye hatchery mitigation needs.

In January of 2005, the HCP HC agreed to a production goal of 591,040 hatchery sockeye from the Okanogan Basin (300,000 for RR and 291,040 for RI, see the Decision on allocation of sockeye production from the Rock Island HCP).

### ***Program Concerns***

Potential concerns over the ability of the program to meet HCP mitigation obligations stem from:

- Uncertainty regarding the ability to collect enough broodstock from the spawning grounds,
- Uncertainty regarding fry-to-smolt survival, and
- Uncertainty regarding infrastructure capabilities in meeting Chelan (and Grant's) mitigation responsibilities.
- Uncertainty regarding the adequacy of smolt monitoring

### ***Broodstock collection***

This year (2005), the ONA proposes to use temporary holding pens on the side of the Okanogan River (Canada) where they will be netting broodstock. This will enable them to hold adults that may not be ready to spawn until mature. This will most likely increase the ability of the program to meet broodstock objectives.

If this protocol still fails to obtain the appropriate number of adults, other options could be explored in the future, such as collection of adults at Wells and holding them until mature. If necessary, other options will be explored by the HCP HC.

### ***Conversion of fry to smolt***

As previously mentioned, the total Chelan obligation for Okanogan sockeye is 591,040 smolts. Current estimates from the ONA estimate that the fry-to-smolt conversion will be

between 40% and 50%. To move forward with mitigation for Okanogan sockeye, assumptions must be made on this conversion rate to determine whether Chelan is meeting its mitigation responsibilities. If we use 40% to 50%, then meeting Chelan's mitigation responsibility will require that between 1,182,080 (591,040/0.5) and 1,477,600 (591,040/0.4) fry must be released.

*Infrastructure capability*

Current program practices and facilities limit the ability of the ONA to produce fish in one year out of four when the current hatchery facility needs capacity to raise Shushwap River sockeye. The ONA are in the process of completing a feasibility study to identify hatchery sites, or increasing the capacity of the current facility. A designated hatchery will ensure that production can be made on a yearly basis.

***Success of the program***

Various metrics can be used to measure the effectiveness of the program. Chelan's obligations with regard to its hatchery compensation are depicted below (quotes from the RR HCP, emphasis added):

*8.4.2 Calculation of Hatchery Levels. The District shall provide the **funding and capacity** required of the District to meet the 7% hatchery compensation level necessary to achieve NNI for all Plan Species.*

Chelan PUD also needs to consider not just the number of fish released, but the biological goals of the hatchery program which are generally stated as:

*8.1.2 The District shall implement the specific elements of the hatchery program consistent with **overall objectives of rebuilding natural populations and achieving NNI.** Species specific hatchery programs objectives developed by the JFP may include contributing to the **rebuilding and recovery of naturally reproducing populations in their native habitats, while maintaining genetic and ecologic integrity, and supporting harvest.***



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Keely Murdoch, Erich Wolf, Ali Wick

**Date:** September 23, 2005

**Re:** Final Minutes of August 17, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at Chelan PUD in Wenatchee, Washington on August 17, 2005 from 9:00 am to 3:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final July 20 Meeting Minutes to the Hatchery Committees by email [sent August 19, 2005] (Item I).
- Chuck Peven agreed to revise the Hatchery Monitoring and Evaluation (M&E) decision process diagram to reflect Hatchery Committees comments. Peven will re-send the diagram to the Hatchery Committees (Item II).
- Rick Klinge and Kirk Truscott agreed to work to resolve Washington Department of Fish and Wildlife's (WDFW) concerns with the Douglas PUD M&E Plan; Rick Klinge will send it to Ali Wick for posting to the ftp site for Hatchery Committees' review. Following this, the Yakama Nation and National Marine Fisheries Service (NMFS) will review the document and will resolve comments with Rick Klinge before the next meeting. This item will be on the agenda at the next meeting for approval (Item IV).
- Shaun Seaman agreed to present a strategy for proceeding with the Bacterial Kidney Disease (BKD) work plan at the next meeting (Item V).
- Rick Klinge agreed to check with the Washington State Department of Ecology (Ecology) on the status of Douglas PUD's currently held water right of 150 cubic feet per second (cfs) at the Wells Hatchery (Item VI-B).

- Hatchery Committees members agreed to provide any comments on Chelan PUD's 2005/2006 draft list of Feasibility Studies and Planned Construction Work prior to the next meeting. This will be a discussion item at the next meeting (Item VII-A)
- Shaun Seaman agreed to reply back to Tom Scribner on how Chelan PUD plans to address work on adult steelhead holding at the Hatcheries (Item VII-A).
- Steve Wiest agreed to revise the previously provided Chiwawa Water Feasibility Report for Hatchery Committees review; this report may be up for approval at the next meeting (Item VII-B).
- Kirk Truscott agreed to provide comments and questions to Erich Wolf regarding the feasibility of accommodating three production groups at Eastbank Hatchery (White River/Nason Creek spring chinook) (Item VII-D).
- Hatchery Committees members will provide comments to the table on the proposed path forward on evaluating the chinook program at Turtle Rock. This will be a discussion item at the next meeting (Item VII-F).
- Tom Scribner will provide the Conceptual Long-term Plan for Coho Mitigation in the Mid-Columbia to Ali Wick for distribution to the Hatchery Committees (Item VIII-A).
- Mike Schiewe agreed to initiate discussions of planning another Mid-Columbia Forum at the next Coordinating Committees meeting (VIII-B).

## **DECISION SUMMARY**

- Hatchery Committees members approved the revised Hatchery Committees Operating Protocols with a minor amendment, which stated that in the event the Hatchery Committees chairperson is unable to facilitate a scheduled meeting, the chairperson shall designate an alternate facilitator for that meeting (Attachment B; Item III).
- The Hatchery Committees agreed that Chelan PUD shall proceed to the next step of the Chiwawa water supply investigation, including determining whether a physical model is needed (VII-B).

## **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Hatchery Committees approved the July 20 Meeting Minutes with minor amendments. Ali Wick will send the Final July 20 Meeting Minutes by email [sent August 19, 2005]. Attendees are listed in Attachment A to these Meeting Minutes.

## **II M&E Plan Decision Rules (Chuck Peven and Tracy Hillman)**

Chuck Peven presented a handout illustrating a draft potential Hatchery M&E decision process that Chelan PUD has developed. The purpose of this decision process diagram is to provide a preliminary framework for Chelan PUD to use in order to guide M&E decision making. The Hatchery Committees commented that the concept of meeting the objectives was missing in the diagram. Peven agreed to revise this diagram to reflect these comments and re-send to the Hatchery Committees.

Tracy Hillman presented information describing the statistical approach for the design of the decision rules for effectiveness monitoring and an adaptive management plan for the hatchery program. Hillman will be working out the details of each hypothesis for this program, including effect size, risks of Type I and Type II errors, statistical power, sample size, and conclusions. Shaun Seaman commented that Chelan PUD expects that this approach will be complete by approximately December 2005 and would be applied in the M&E work planned for 2006. Keely Murdoch commented that similar considerations should be applied when selecting reference streams for M&E work. Rick Klinge indicated that Douglas PUD will be working with Chelan PUD on this exercise as it relates to its own M&E program.

## **III Decision: Hatchery Committees Operating Protocols (Mike Schiewe)**

Mike Schiewe introduced the Hatchery Committees Operating Protocols, which had been revised since the last meeting. Hatchery Committees members approved the revised protocols with a minor amendment, which stated that in the event the Hatchery Committees chairperson is unable to facilitate a scheduled meeting, the chairperson shall designate an alternate facilitator for that meeting (Attachment B).

## **IV DECISION: Douglas PUD M&E Plan (Rick Klinge)**

Rick Klinge stated that Douglas PUD accepts the changes proposed by the Hatchery Committees for the Douglas PUD M&E Plan. Kirk Truscott commented that WDFW would like

to see more specificity in the document regarding some of the hatchery programs and objectives. The U.S. Fish and Wildlife Service (USFWS) and the Colville Tribes expressed no concerns with the document. The Yakama Nation and NMFS requested additional time to review the document. Rick Klinge and Kirk Truscott agreed to work to resolve WDFW's concerns with the document; Rick Klinge will send it to Ali Wick for posting to the ftp site for Hatchery Committees' review. Following this, the Yakama Nation and NMFS will review the document and will work with Rick Klinge to resolve comments prior to the next meeting. This item will be on the agenda for approval at the next meeting.

## **V Work Plan: BKD Management (Mike Schiewe)**

Mike Schiewe described his development of a work plan to be used that will guide the development of a white paper summarizing the literature, existing management practices, and study results for BKD issues. Brian Cates commented that collecting information from federal and tribal hatcheries (not just state) should be included in the descriptions of work. Hatchery Committees members did not have any other comments or revisions to the document. Shaun Seaman suggested that Chelan PUD could take the lead on moving this effort forward; the Hatchery Committees agreed with this suggestion. Shaun Seaman agreed to present a strategy for proceeding with the work plan at the next meeting.

## **VI Updates: Douglas PUD (Rick Klinge)**

### *A. Comments and Review of 2004 Methow Chinook/Steelhead Monitoring Report*

Rick Klinge updated the Hatchery Committees that the review period for the 2004 Methow Chinook/Steelhead Monitoring Report is now complete. There were no comments to this report. Therefore, Klinge will work with the authors to finalize the report and distribute copies to the Hatchery Committees via postal mail and the ftp site.

### *B. Surface Water Intake Screens at Wells Hatchery*

Rick Klinge provided a drawing of the current and proposed surface water intake screens at Wells Hatchery. The current design configuration retains the option to deliver either 100 cfs or 150 cfs, if needed, by the addition of cylindrical screen units. Rick Klinge agreed to check with Ecology on the status of Douglas PUD's currently held water right of 150 cfs at the Wells Hatchery.

C. *Chewuch Weir*

Tom Kahler updated the Hatchery Committees that Douglas PUD will be meeting with contractors next week (week of August 22, 2005) to discuss implementation of the Chewuch weir improvements. Douglas PUD met with the WDFW to resolve and finalize outstanding design issues. The federal permitting process is ongoing and Douglas PUD expects that the Biological Evaluation will be sent to the Services soon. The state and county permitting processes are ongoing and Douglas PUD expects to obtain these permits concurrent with or following the federal permitting process. Douglas PUD requested Hatchery Committee support at the upcoming Okanogan County Shoreline Conditional Use Permit hearing in Omak on 20 September, at 7:30 PM. Some opposition to the project is expected at the hearing, and input from the JFP could be instrumental.

D. *Resource Work Group Meeting Dates*

Rick Klinge introduced a schedule for Resource Work Group meeting dates for Douglas PUD's Integrated Licensing Process for Wells Dam. These dates are not expected to conflict with Hatchery Committees meetings because Group meeting dates only overlap in the case of the Terrestrial Work Group, and the members of the Terrestrial Work Group will likely be different individuals than the Hatchery Committees. Klinge also updated the Hatchery Committees that there is an Integrated Licensing Process overview meeting with Federal Energy Regulatory Commission (FERC) scheduled for Tuesday, October 18.

## **VII Updates: Chelan PUD (Shaun Seaman)**

A. *2005/2006 Feasibility Studies and Planned Construction Work*

Shaun Seaman provided a draft list of Feasibility Studies and Planned Construction Work at hatcheries for the remainder of 2005 and for 2006. This includes items from WDFW's improvement list as well as from Chelan PUD's "road maps" for facilities management, both of which have been discussed at previous meetings. Hatchery Committees members agreed to provide any comments on this list prior to the next meeting. Tom Scribner asked whether Chelan PUD would address the status of adult steelhead holding at the hatcheries; Shaun Seaman indicated that he would reply back to Scribner on this.

B. *Chiwawa Water Report (Steve Wiest)*

Steve Wiest updated the Hatchery Committees on recent investigations of options for the Chiwawa Hatchery water supply. Wiest informed the Hatchery Committees that Duncan Hay has been looking at water injection on the intake screens to minimize frazil ice conditions. Wiest and Hay concluded that frazil ice conditions could either be prevented by injecting warmer water into the system before frazil ice forms, or melting the ice once it has formed. The warming of water before frazil ice forms would be the preferred option because less water is required to provide warmer water conditions than would be needed to alleviate frazil ice conditions. When providing warming water, the ratio of intake of Wenatchee River water to Chiwawa River water could be 50/50; during conditions under which frazil ice risk is low, the Wenatchee River water component could be reduced. Wiest commented that an automatic system would likely be preferable to a manual system for controlling water intakes.

The Hatchery Committees agreed that Chelan PUD shall proceed to the next step of the Chiwawa water supply investigation, including determining whether a physical model is needed. Wiest will revise the previously provided Chiwawa Water Feasibility Report for Hatchery Committees' review; this report will be up for approval at the next meeting. Chelan PUD expects that the construction schedule will be subject to permit approval with preliminary target construction dates in spring or summer of 2006.

*C. Chelan Falls and Chelan Falls Hatchery Well Field*

Shaun Seaman updated the Hatchery Committees that there is an ongoing study to investigate aquifer needs at Chelan Falls Hatchery. Chelan PUD will be investigating the status of the well field at Chelan Falls Hatchery. Well production volumes have declined and Chelan PUD will work to determine the cause and to increase production. It was determined that the condition of the main surface water transmission line (20 inches) at the hatchery is adequate for current uses but may require replacement in 10 years (approximately 2015). This work is relevant to existing Chelan Falls Hatchery operations and is not related to the ongoing investigation of moving the chinook acclimation program to Chelan Falls.

*D. Grant PUD Use of Eastbank Hatchery for White River Spring Chinook (Erich Wolf)*

Erich Wolf updated the Hatchery Committees that Chelan PUD has preliminarily evaluated the feasibility of accommodating three production groups at Eastbank Hatchery (White River/Nason Creek Chiwawa spring chinook). The evaluation concluded that physical-space capacity



demands would be manageable under the existing infrastructure, but water capacity demands would not be manageable. This is true to varying degrees, depending on whether the goal is to operate at current conditions where rearing criteria are occasionally exceeded or whether the goal is to operate such that rearing criteria are never exceeded. Kirk Truscott agreed to provide comments and questions to Erich Wolf regarding this evaluation.

Shaun Seaman commented that Chelan PUD will be initiating a study in 2006 to determine sustainable aquifer practices for fish and for water withdrawal from the Eastbank aquifer. The results of this study may require a review of hatchery practices to ensure the sustainability of the Eastbank aquifer.

*E. Skaha Program*

Shaun Seaman updated the Hatchery Committees that the Chelan PUD Board of Commissioners had approved the funding of the Skaha Program; this decision was previously approved by the Hatchery Committees.

*F. Chinook Program at Turtle Rock Island Hatchery.*

Shaun Seaman introduced this topic as an informational discussion item, outlining a document that explains Chelan PUD's proposed path forward to evaluate options for relocating the chinook program at Turtle Rock Island Hatchery. Seaman said that the proposed location of the program is a key question. In addition to Chelan Falls, Chelan PUD is evaluating three additional locations: Entiat River, Methow River, and the Okanogan River. Tom Scribner and Kris Petersen commented that the goals of the program change depending on its location, and Petersen noted that a Biological Opinion would be needed for any location that requires a permit change. Hatchery Committees members will provide comments on the table included in the document. This will be a discussion item at the next meeting.

**VIII Other Issues (Mike Schiewe)**

*A. Update: Coho Mitigation Criteria*

Mike Schiewe updated the group that he has discussed the Rock Island HCP requirement with several Hatchery Committees members in order to assess possible hatchery compensation for a coho program developed outside the HCP. These discussions have focused on the potential use

of biological criteria in the decision-making process, and the need to coordinate this decision with similar decisions required by the Wells and Rocky Reach HCPs in 2006. Tom Scribner stated that the Yakama Nation would be presenting a Master Plan for its coho program to the Northwest Power Planning and Conservation Council (NPPCC) for review in November 2005. The NPPCC would then send the Master Plan to the Independent Scientific Review Panel (ISRP) for review. Considering the time necessary for ISRP review and any subsequent revisions, the NPPCC would not likely be making a decision on long-term funding until mid-2006.

Mike Schiewe suggested that the Hatchery Committees might want to consider deferring a determination in 2005 until 2006 when the NPPCC decision has been made, and near the timeframe when similar determinations are required under the Wells and Rocky Reach HCPs. The Hatchery Committees agreed to continue tracking this item within their respective agencies, and agreed to continue discussions regarding potential criteria. Tom Scribner will provide the Conceptual Long-term Plan for Coho Mitigation in the Mid-Columbia (the Master Plan) to Ali Wick for distribution to the Hatchery Committees.

*B. Mid-Columbia Forum*

Mike Schiewe agreed to initiate discussions of planning another Mid-Columbia Forum at the next Coordinating Committees meeting.

*C. Grant PUD Request for Study Steelhead (Rick Klinge)*

Rick Klinge updated the Hatchery Committees that Grant PUD is requesting steelhead from Wells Hatchery for study purposes. These will be hatchery/hatchery fish.

*D. Update: Hatchery Committees Concurrences on Skaha and Chelan PUD M&E Plan Statements of Agreement*

Mike Schiewe updated the Hatchery Committees that email concurrences have been received by all Hatchery Committees members for the Skaha Program and Chelan PUD M&E Plan Statements of Agreement. The Hatchery Committees agreed with the text in these Statements of Agreement.

*C. Next Meeting*

The next meeting will be held on Wednesday, September 21, 2005 at Chelan PUD in Wenatchee.

**List of Attachments**

Attachment A—List of Attendees

Attachment B—Final Hatchery Committees Operating Protocols

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Tracy Hillman	Bioanalysts
Jerry Marco *	Colville Tribes
Rick Klinge *	Douglas PUD
Tom Kahler	Douglas PUD
Dick Nason	DNC
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Erich Wolf	Sapere Consulting, Inc.
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Andrew Murdoch	WDFW
Tom Scribner *	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Keely Murdoch, Erich Wolf, Ali Wick

**Date:** October 20, 2005

**Re:** Final Minutes of September 21, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at Chelan PUD in Wenatchee, Washington on September 21, 2005 from 9:00 am to 3:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final August 17 Meeting Minutes to the Hatchery Committees by email [sent September 23, 2005] (Item I).
- Ali Wick will post Douglas PUD's final Hatchery M & E plan on the Hatchery Committee ftp site (Item II).
- Mike Schiewe will provide the Bacterial Kidney Disease (BKD) researcher/manager questionnaire to Hatchery Committees members for comment as soon as it is drafted (Item V.A).
- Shaun Seaman will email the updated Draft List of Feasibility Studies and Planned Construction work for 2005-2006 to the Hatchery Committees, including the steelhead-related changes and a placeholder for potential Dryden discussions (Item V.D).
- Chuck Peven will provide the Request for Proposal (RFP) for Chelan PUD's Monitoring and Evaluation (M&E) Plan to the Hatchery Committees by email (Item V.F).
- Shaun Seaman will work with Rick Stilwater (Washington Department of Fish and Wildlife [WDFW]) and Keely Murdoch to discuss potential new security measures at the Dryden Facility (Item V.I).

- Kirk Truscott will send an email to the Hatchery Committees on the proposed plan for excess summer Chinook production for the Similkameen Program and steelhead for the Wenatchee Program. Committees members will respond as soon as possible to Truscott regarding WDFW's proposal (Item V.J).
- Ali Wick will post the Colville Tribes' Chief Joseph Dam Hatchery Program Master Plan to the Hatchery Committees ftp site (Item V.J).
- Mike Schiewe will follow up with the Hatchery Committees following the Coordinating Committees meeting on September 27, 2005, regarding the potential use of "excess steelhead" from Turtle Rock Island as Chelan PUD survival study fish (Item V.J).

#### **DECISION ITEM SUMMARY**

- Hatchery Committees members approved the Douglas PUD M&E Plan dated September 2005.
- Hatchery Committees members approved Douglas PUD providing 150,000 study fish from Wells Hatchery to Grant PUD for 2007 studies.

#### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Hatchery Committees approved the August 17 Meeting Minutes as revised. Ali Wick will send the Final August 17 Meeting Minutes by email [sent September 23, 2005]. Attendees are listed in Attachment A to these Meeting Minutes.

#### **II DECISION POINT: Douglas PUD M&E Plan (Shane Bickford)**

Mike Schiewe introduced this topic and commented that all parties had provided comments back to Douglas PUD on its plan, and that the plan had been revised consistent with these comments. The Hatchery Committees approved the Douglas PUD M&E Plan dated September 2005.

#### **III DECISION POINT: Request from Grant PUD for Wells Hatchery fish (Shane Bickford)**

Shane Bickford updated the Hatchery Committees that Grant PUD has requested 150,000 study steelhead from Wells Hatchery for its 2007 survival studies. Bickford verified that space was available to raise these fish without affecting HCP mitigation production, and that the origin of

these fish will be a hatchery by hatchery cross. Hatchery Committees members approved Douglas PUD providing these fish to Grant PUD.

#### **IV Updates: Douglas PUD (Shane Bickford and Tom Kahler)**

##### *A. Chewuch Weir and Okanagan County Shoreline Conditional Use Permit*

Tom Kahler updated the Hatchery Committees that the Okanagan County Shoreline Conditional Use Permit Hearing for the Chewuch weir on September 20, 2005 was postponed. Prior to this postponement, Douglas PUD had previously received the staff report from Okanagan County wherein the County recommended approval of the weir with minor conditions. Douglas PUD also received a packet of comments from the public. In an attempt to provide factual information about the proposed weir to the public, WDFW and Douglas PUD jointly held a public meeting at the Methow Fish Hatchery. The public information meeting was held on September 6, 2005 to discuss the proposal. Unfortunately, one of the key landowner still withdrew support for the project, thus invalidating the shoreline permit application. Following some misinformation circulating about this project, Douglas PUD initiated discussions with this landowner and other stakeholders in the project to provide correct information and to explore options for reinstating the application. This may include selecting an alternate site for the weir. This will be a discussion item at the next meeting.

##### *B. Broodstock Trapping at Wells Dam*

Shane Bickford and Keely Murdoch updated the Hatchery Committees that National Marine Fisheries Service (NMFS) is evaluating the affects of extending coho trapping at Wells Dam to seven days a week and the effect of that extension on ESA listed steelhead. NMFS expects to have the evaluation completed by October 10.

##### *C. Loss of Fish at Wells Dam on August 11 and 12*

Shane Bickford updated the Hatchery Committees that Douglas PUD prepared a response letter to the WDFW letter that described a loss of adult chinook and sockeye at the brood collection trap located on the east ladder of Wells Dam. The event took place on August 11 and 12, 2005. The letter prepared by Douglas PUD clarifies several inaccuracies contained within the WDFW letter to NMFS describing the incident.

*D. Wells Hatchery Surface Water Screens*

Tom Kahler updated the Hatchery Committees that he had checked on their concern regarding Douglas PUD's water right of 150 cfs for the Wells Hatchery screens; Kahler updated the Hatchery Committees that the origin of this right is from the permit for power generation at the dam, which is greater than 200 kcfs. Douglas PUD will be evaluating a bid package for the new intake screen design. The original design was modified due to cost considerations.

**V Updates: Chelan PUD (Shaun Seaman)**

*A. BKD Workplan*

Chuck Peven updated the Hatchery Committees that Douglas and Chelan PUD met with Mike Schiewe to discuss implementing the BKD Workplan approved at the August 17, 2005, Hatchery Committees meeting. Based on this discussion, Chelan PUD proposed to the Hatchery Committees that Mike Schiewe be assigned to conduct the study and prepare the report. Schiewe indicated he would be developing a questionnaire for use when interviewing fish health professionals, and that he would circulate this to the Hatchery Committees for comments. The white paper would provide a risk management matrix to describe current management strategies and options. The Hatchery Committees indicated their concurrence with this strategy and arrangement for this paper. Schiewe will provide the researcher/manager questionnaire to Hatchery Committees members for comment as soon as it is drafted.

*B. Chiwawa Water Feasibility Report*

Shaun Seaman introduced this topic and updated the Hatchery Committees that this report is still being revised and the report, schedule, and timeline will be available at the October meeting. The Hatchery Committees discussed the current options for adding Wenatchee River water as a source for the Chiwawa hatchery. Kris Petersen commented that straying of Chiwawa River spring Chinook into the White River this year was causing problems with the collection of spring Chinook for the White River captive broodstock program. Because of the concern that this problem is related to the Chiwawa water supply issue, Petersen indicated that Chelan PUD may be asked to contribute to a genetic testing program. The specifics and management implications of these tests are still being discussed between the management agencies. Shaun Seaman commented that Chelan PUD may have a concern with funding multiple strategies for addressing the Chiwawa hatchery fish straying problem. Kris Petersen will keep Chelan PUD



updated on the progress of these discussions and will provide a proposed schedule or funding information for these potential studies to Chelan PUD as information becomes available.

Shaun Seaman also commented that as part of the design discussed in the Feasibility Report, a pond liner of asphalt/concrete or other similar material is being discussed for installation at the Chiwawa Hatchery.

*C. Chinook Program at Turtle Rock – Comments to Tables Provided at Last Meeting*

Shaun Seaman updated the Hatchery Committees that Chelan PUD is reviewing recommendations for the relocation of the Turtle Rock Chinook program, and that Chelan PUD had received comments from WDFW on its table which describes options currently being considered. Kirk Truscott commented that moving the Turtle Rock program to any of the tributary programs would not be desirable from the WDFW viewpoint for two reasons: 1) potential competition issues with ESA fish, and 2) increased risk of Turtle Rock fish contributing to the natural spawning populations, an outcome which opposes the objective of moving the program from Turtle Rock. Truscott also commented that moving production to the site of the future Chief Joseph Hatchery would also be problematic because the fish would be acclimated to mainstem Columbia River water during latter rearing, which would provide an unsatisfactory water source for homing, migration, and spawning. Seaman asked whether there were any locations other than these which would be unworkable from the HCP parties' perspective, or if there were any additional locations that should be considered; there were no further comments from the Hatchery Committees on this matter. Seaman updated the Hatchery Committees that the likely implementation date would be 2007, and immediate next steps would include providing an updated draft table and draft report to the Hatchery Committees by the December 2005 meeting.

*D. Draft List of Feasibility Studies and Planned Construction Work for 2005-2006*

Shaun Seaman updated the Hatchery Committees that Chelan PUD revised the table that was provided at the last meeting to reflect internal discussions and Hatchery Committees comments. Upcoming edits to this table will include the following: 1) adding steelhead adult holding capacity and acclimation on Wenatchee River water, 2) revising dollar amounts, and 3) filling out the 2007 portion of the table. Keely Murdoch asked for clarification on whether there was work planned for Dryden; Seaman said that this information would be obtained for the next draft of

the table to be presented at the next meeting. Seaman will email the updated table to the Hatchery Committees with the steelhead-related changes and a placeholder for potential Dryden discussions.

*E. Entiat Watershed Planning Meeting on October 5, 2005*

Chuck Peven updated the Hatchery Committees that he will contact Sarah Walker regarding concerns and questions that Watershed Planning Meeting attendees may have regarding the use of the Entiat River as a reference stream. Peven will attend the October 5, 2005, meeting and help the group develop their concerns and questions to provide a list to the Hatchery Committees to guide their preparation for a future meeting.

*F. RFP for M&E Plan*

Shaun Seaman updated the Hatchery Committees that the RFP for Chelan PUD M&E work was sent out in September and Chelan PUD expects to have proposals back by November 1, 2005. Chuck Peven will provide the RFP to the Hatchery Committees by email. The Hatchery Committees discussed the expected role of the Hatchery Committees in reviewing the proposed M&E implementation workplan; this will be a further discussion item at the next meeting.

*G. Aquifer Study*

Shaun Seaman updated the Hatchery Committees that Chelan PUD is participating in a study to investigate sustainability of the aquifer from which Eastbank Hatchery draws its water. The aquifer is also the source of water for several municipalities in the Wenatchee area. The projected completion of this draft study is 2006.

*H. M&E Plan Decision Rules*

Chuck Peven introduced this topic and commented that he continued to work with Rick Klinge and Tracy Hillman (BioAnalysts) on statistical decision rules to be applied in the Chelan and Douglas PUD M&E Plans. Shaun Seaman indicated that this will be a discussion item, and possibly a decision item, at the next meeting.

*I. Chelan PUD Identification and Security Issues*

Shaun Seaman updated the Hatchery Committees that Chelan PUD is taking new steps to ensure security at Dryden Ponds. Shaun Seaman will work with Rick Stilwater (WDFW) and Keely Murdoch to discuss the implementation of these new steps.

*J. Bonaparte Ponds Excess Production*

Kirk Truscott updated the Hatchery Committees that there is excess production of summer Chinook for the Similkameen program, and WDFW is evaluating the use of these excess fish. Currently, options include providing excess fish to the Colville Tribes for rearing at Bonaparte Ponds. Kirk Truscott will send an email to the Hatchery Committees on the proposed plan for these fish. Also, Shaun Seaman will provide the Colville Tribes' Chief Joseph Dam Hatchery Program Master Plan to Ali Wick for posting on the Hatchery Committees ftp site.

Kirk Truscott also mentioned that there are approximately 100,000 "excess" hatchery-by-hatchery Wenatchee steelhead juveniles at the Turtle Rock Island Hatchery. One possible option is to use these fish for Chelan PUD survival studies; if they are not used for this purpose, WDFW might propose to move these fish to the Ringold Ponds. Hatchery Committees members will provide immediate comment and opinion to Kirk Truscott regarding the path forward for the excess production of these Okanagan Chinook and Wenatchee steelhead. Mike Schiewe will follow up with the Hatchery Committees following the Coordinating Committees meeting on September 27, 2005, regarding the use of potential overage fish from Turtle Rock Island as Chelan PUD survival study fish.

## **VI Other Issues (Mike Schiewe)**

*A. Mid-Columbia Forum*

Mike Schiewe updated the Hatchery Committees that he brought up the idea of planning the next Mid-Columbia Forum to the Coordinating Committees. The meeting status is still in discussions, but it would likely be educational in nature, with separate sections for updates on Hatchery Committee progress and Tributary Habitat progress, according to the interest of non-signatories and the public.

*C. Next Meeting*

The next meeting will be held on Wednesday, October 19, 2005 at Chelan PUD in Wenatchee. Note: The December meeting will be held on December 14, 2005.

**List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Shane Bickford	Douglas PUD
Tom Kahler	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
David Carie	USFWS
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation (by conference call)
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member



Anchor Environmental, L.L.C.  
1423 3<sup>rd</sup> Avenue, Suite 300  
Seattle, Washington 98101  
Phone 206.287.9130  
Fax 206.287.9131

## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Tom Kahler, Shane Bickford, Keith Truscott, Ali Wick

**Date:** October 25, 2005

**Re:** Final Minutes of October 3, 2005 HCP Hatchery Committees Conference Call -  
October 5, 2005 Entiat Watershed Planning Unit Meeting

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Members of the Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees met by conference call on Monday, October 3, 2005 from 1:30 pm to 2:15 pm to discuss the upcoming Entiat Watershed Planning Unit Meeting scheduled for October 5, 2005. Attendees included are listed in Call Minutes Attachment A.

### **CALL MINUTES**

Mike Schiewe opened the call by listing the attendees and the reason for the call, which was to discuss a strategy for providing information to and addressing questions from the Entiat Watershed Planning Unit at their October 5 meeting. At the last Hatchery Committees meeting, it was discussed that Chuck Peven would attend the October 5, 2005 meeting and help the EWPU develop their concerns and questions and provide those to the Hatchery Committees so they could address them at a future meeting. Mike Schiewe indicated that in lieu of this, Sarah Walker (who facilitates the EWPU meetings) had already provided Chuck Peven with several questions that the group would like to have answered; these include 1) what data are being collected, 2) what are the timelines for evaluating these data, and 3) what process would the agencies go through if and when the designation of "reference stream" would change.

The Committees discussed that it would be important to share with the EWPU that the reference stream issue is a separate issue from the issue of whether a fishery could be established in the Entiat River. According to the HCP resource managers, the reference stream issue is HCP-related; the fishery issue is related to the inherent limitations of the Entiat basin in supporting a fishery.

It was discussed that at the meeting, that WDFW would start the discussion by clarifying that the fishery issues and the reference stream classification are two separate and distinct issues. Joe Miller and Kirk Truscott will describe WDFW's management strategy for the Wenatchee, Entiat, and Methow basins. Kris Petersen would then address how these topics mesh with the Regional Recovery Plan. Chuck Peven will then give an overview of the development of the Biological Assessment and Management Plan (BAMP) and the participation of all the resources agencies and tribes. He would emphasize the linkage between the need for a reference stream and the evaluation of hatchery supplementation. He would further emphasize that the subject of reference stream and harvest were separate issues, and he would refer any questions on harvest to WDFW and NMFS. .

The agenda for the EWPU Meeting indicates that the discussion with the HCP Hatchery Committees members is scheduled for 1 pm on October 5 at the Entiat Grange Hall, 14108 Kinzel St., in Entiat, Washington.

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman	Chelan PUD
Keith Truscott	Chelan PUD
Shane Bickford	Douglas PUD
Tom Kahler	Douglas PUD
Rick Klinge *	Douglas PUD
Kristine Petersen *	NMFS
Brian Cates	USFWS
Kirk Truscott *	WDFW
Joe Miller	WDFW

\* Denotes Hatchery Committees member



## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Chuck Peven, Tom Kahler, Keely Murdoch, and Ali Wick

**Date:** November 21, 2005

**Re:** Final Minutes of October 19, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at Chelan PUD in Wenatchee, Washington on October 19, 2005 from 9:00 am to 2:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final September 21, 2005 Meeting Minutes and the October 3, 2005 Conference Call Minutes to the Hatchery Committees by email (Item I).
- Kirk Truscott and Kristine Petersen will work several Entiat Basin landowners from the Entiat Watershed Planning Unit to plan an Entiat basin community meeting as a follow-up to the Oct 5 planning unit meeting that HCP HC members attended (Item II).
- Chuck Peven will investigate the duration and details of the water right at Dryden Ponds and get back to Kirk Truscott on this (Item III-A).
- Kirk Truscott will set up a subcommittee to expedite decisions regarding modification of Endangered Species Act (ESA) permit 1196 (Item III-C).
- Shaun Seaman will look into whether funding and tags can be made available in 2005 for PIT tagging Wenatchee steelhead prior to moving the fish to Turtle Rock (Item III-D).
- Mike Schiewe will prepare a Statement of Agreement for the Coordinating Committees to defer a decision until 2006 on whether a continuing hatchery program and/or naturally reproducing population of coho salmon exits; Schiewe will provide this Statement to the Hatchery Committees prior to the November meeting, and then present an approved statement to the Coordinating Committees at their November meeting (Item VI-A).

- Kirk Truscott will send the proposal for transfer of excess spring Chinook at Winthrop hatchery to the Methow Hatchery to Committees members for their information (Item VI-B).

## **DECISION ITEM SUMMARY**

There were no decision items at this meeting.

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Committees approved the September 21, 2005 Meeting Minutes as amended; the minutes from the October 3, 2005 conference call will be finalized at the end of the week with any additional comments. Ali Wick will send the Final Minutes by email. Attendees are listed in Attachment A to these Meeting Minutes.

### **II Update: Entiat Watershed Planning Unit Meeting (Kristine Petersen)**

Kris Petersen gave an update on the Entiat Watershed Planning Unit Meeting that occurred on October 5, 2005, and commented that the meeting was successful in conveying the separation between the issue of beginning a fishery in the Entiat River (a Washington Department of Fish and Wildlife [WDFW] topic) from the issue of considering the Entiat as a reference stream (a HCP topic). The Planning Unit asked that, as a follow-up measure, the Committees members attend a meeting with the community to provide: a summary/history of Entiat fisheries, an explanation of the difference and potential conflicts between having a reference area and a fishery in the area, an explanation of salmon recovery efforts and potential benefits for the Entiat, and an explanation of how out-of-basin problems that affect fish would potentially be considered. In addition, the Planning Unit requests a question/answer period during the meeting. Kirk Truscott and Petersen will follow up with the Planning Unit to plan this meeting (likely November 8, 9, or 10) and will notify Senator Linda Evans Parlette, at Senator Parlette's request.

### **III Updates: WDFW (Kirk Truscott)**

#### *A. Excess Okanogan/Similkameen Summer Chinook and Wenatchee Steelhead*

Kirk Truscott provided an update on the excess brood year 2004 Okanogan/Similkameen summer Chinook (712,249 fish total). These fish are proposed to be moved from the Eastbank Hatchery to the Similkameen and Bonaparte Ponds, to be released as yearlings into the Similkameen and Okanogan

Rivers. In addition, there are 100,000 excess Wenatchee steelhead, and WDFW is investigating the possibility of acclimating these fish at the Leavenworth Hatchery or Dryden Ponds, depending on conversations with U.S. Fish and Wildlife Service (USFWS) and Chelan PUD. To inform these discussions, Chuck Peven agreed to investigate the duration and details of the water right at Dryden Ponds.

*B. Brood Year 2005 Grant County Survival Study Steelhead*

Kirk Truscott updated the Committees that steelhead previously destined for 2005 Grant PUD survival studies are proposed to be reared, adipose-clipped, and released at Ringold (150,000 fish). The Committees agreed with this proposal.

*C. 1196 Permit Status*

Kirk Truscott updated the Committees that WDFW is engaged in discussion with co-managers regarding broodstock management in the Methow for the ESA permit 1196, including issues surrounding excess hatchery-origin fish. Kris Petersen suggested that Passive Integrated Transponder (PIT) tagging some of the Methow fish could be considered as part of this process. WDFW and the PUDs will be preparing the ESA permit 1196 modification for submittal to National Marine Fisheries Service (NMFS) and NMFS will be integrated into the discussions of potential options. Kirk Truscott will convene a subcommittee to expedite decisions regarding permit modifications (potential attendees include Steve Parker, Yakama Nation; Brian Cates, USFWS; and Chuck Peven, Chelan PUD).

*D. Wenatchee Steelhead*

Kirk Truscott updated the Committees that recent PIT tag data indicate that there is a high rate of straying to areas above Wells Dam by steelhead reared at Turtle Rock and released into the Wenatchee River. Chelan PUD asked for clarification on the percentage of straying and whether that number accounted for fallback. Truscott clarified that the percentage accounted for some level of fallback, and WDFW attributes this high stray rate to problems with acclimation. WDFW proposes continuing the PIT tag studies at Turtle Rock with the 2005 steelhead brood to further monitor the straying in this component; the Committees agreed that they endorse PIT tagging these fish for this purpose. Shaun Seaman will look into whether funding and tags can be made available to WDFW in 2005 to support this work.

#### **IV Updates: Douglas PUD (Tom Kahler)**

##### *A. Chewuch Weir*

Tom Kahler updated the Committees on the ongoing process for gaining community support for the Chewuch Weir. Over the past several weeks, Kahler has shared several newspaper articles with the Committees members, and he provided the Committees with a summary of several recent discussions with affected landowners. Dialogue will continue and no decisions have been made to alter the course of gaining approval for the Chewuch Weir.

##### *B. PIT Tag Reader*

Tom Kahler updated the Committees that the PIT-tag readers on the pipe at the west ladder of Wells Hatchery have been removed for repair due to damage of unknown origin. Kahler clarified that PIT tag location data will still be collected with wand-type PIT tag readers while fish are being processed at the hatchery, but that fish location information at the pipe will not be collected; except for this, nothing will change at the trapping operation as a result of this situation.

#### **V Updates: Chelan PUD (Shaun Seaman)**

##### *A. Bacterial Kidney Disease (BKD) White Paper*

Mike Schiewe updated the Committees that Anchor Environmental has begun work on the BKD White Paper, and asked for Committees comment on the draft questionnaire to be used for compiling information on BKD management. Tom Scribner asked that a question be included regarding whether management decisions were conditioned by status of the population (i.e., what if the population was ESA-listed? What if it was non-indigenous and introduced?). In addition, Scribner commented that a question could be added to ask management entities to verify the validity of empirical studies that drive their management decisions. Along the same lines as Scribner's comment, Kirk Truscott commented that Schiewe should ask a question on how management might change in regard to special stocks such as ESA-listed species or non-indigenous fish. Tom Kahler commented that the questionnaire should clarify that the relevant Canadian provinces (as well as U.S. states) are being considered.

##### *B. Finalized Chiwawa Water Supply Evaluation, Schedule, and Timeline*

Chuck Peven distributed the finalized Chiwawa Hatchery Water Supply Evaluation. Findings of this report were that the recommended alternative is to mix Wenatchee River water at the Chiwawa

River Pump Station intake when icing conditions are possible and automatically start up the Wenatchee Pump Station if ice conditions are detected (Alternative 20). Peven commented that supplemental modeling will be needed to support the design of this alternative, but that the modeling is not expected to change the choice of this alternative. Construction is anticipated to be completed by the late summer of 2007.

*C. 2005 Feasibility Studies and 2006 Planned Work*

Shaun Seaman discussed the list of 2005 Feasibility Studies and 2006 Planned Work, as provided to the Committees in a previous email. Seaman clarified for Tom Scribner that adult steelhead holding at Eastbank Hatchery will be considered as part of a Feasibility Study in 2006. Seaman also clarified that some of the actions outlined in the list are interrelated and that the document is a “living” list that will continue to be modified as other projects progress.

*D. Request for Proposals for Monitoring and Evaluation (M&E) Plan*

Chuck Peven updated the Committees that contractor proposals to implement the Chelan PUD M&E Plan are due November 1, 2005. Chelan PUD has identified an internal team for evaluating proposals and will forward to the Committees the four criteria that have been developed for evaluation. Peven commented that Chelan PUD would be open to additional criteria that the Committees may want to suggest.

*E. M&E Plan Decision Rules*

Chuck Peven updated the Committees that the Draft Decision Rules for M&E District Hatchery Programs document has been completed. Another team meeting is scheduled for November 8, 2005, when the team will be refining sample size issues (years required for monitoring). The team hopes to have a draft for Committee review prepared for the December Hatchery Committees meeting.

*F. White River Genetics and Rearing Follow-up Discussion*

Shaun Seaman updated the Committees that based on discussions in the Priest Rapids Hatchery Committee, Chelan PUD has agreed to rear the juveniles from eggs collected in the White River that, based on genetic testing, are not of pure White River origin. The testing was prescribed by the Joint Fishery Parties due to the high degree of straying of hatchery fish in the White River this year and their desire to maintain the genetic integrity of the White River spring Chinook as an independent population. Chuck Peven asked whether fish currently used in the existing White River captive

brood program represent White River naturally-spawning fish. Kirk Truscott clarified that White River captive brood are believed to be naturally-spawning progeny as far as current information indicates, but that there is some degree of uncertainty because field surveys (and not genetic testing) were used as the basis for this conclusion.

*G. Chelan PUD Hatchery Maintenance Issues*

Shaun Seaman updated the Committees that the spray bar at the Dryden Trapping Facility is being repaired and the Carlton Pond liner is anticipated to be replaced by the end of 2005.

**VI Other Issues (Mike Schiewe)**

*A. Coho Long-Term Plan*

The Rock Island Anadromous Fish Agreement and Habitat Conservation Plan states that "Hatchery compensation for coho will be assessed in 2005 following the development of a continuing coho hatchery program and/or the establishment of a naturally reproducing population of coho (by an entity other than the District and occurring outside this Agreement). The Hatchery Committee shall determine whether a hatchery program and/or naturally reproducing population of coho exist."

Mike Schiewe noted that because the Yakama Nation will not know whether long-term funding will be available for its coho program until sometime in 2006, the Hatchery Committee should consider whether to recommend deferring a decision until 2006. Tom Scribner updated the Committees that the Yakama Nation previously planned to present a long-term coho plan document to the Northwest Power Planning and Conservation Council by November 2005, but that the timeline is now December 2005. Because of this timeline change, Scribner indicated that the Yakama Nation would support deferring a decision until sometime in 2006. The Committees agreed that Mike Schiewe should prepare a Statement of Agreement for the Coordinating Committees to defer the discussion until 2006 on coho for the Rock Island HCP; Schiewe will provide the draft Statement of Agreement prior to the November Hatchery Committees meeting for approval of the content at that meeting, and then present it to the Coordinating Committees at the November Coordinating Committees meeting for approval of the change.

*B. Broodstock Management in the Methow Basin*

Brian Cates updated the Committees that broodstock collection is ongoing at Winthrop Hatchery and that there are approximately 200,000 excess spring Chinook at the hatchery. Kris Petersen commented that some of these excess Chinook include those with adipose-clips, which are the

progeny of Methow x Carson crosses in 2001. Cates said that USFWS proposes to transfer 90,000 of the known Methow Composite x Methow Composite or Chewuch to the WDFW Methow Hatchery. Kirk Truscott commented that there is nothing about space, ancestry, or disease that would preclude transferring some of these fish to the Methow Hatchery. Kris Petersen indicated that NMFS would agree with this proposal if the Methow x Carson crosses retained at Winthrop National Fish Hatchery were ad-clipped to indicate their Methow x Carson ancestry. Truscott will send the proposed transfer plan to Committees members for their information.

#### *C. Mid-Columbia Forum*

Mike Schiewe updated the Committees that the Coordinating Committees had agreed with a proposed format of the next Mid-Columbia Forum that included introductory presentations on fish passage, hatcheries, and tributaries, followed by breakout sessions. He further noted that he had not heard from the non-signatories to the HCP regarding his inquiry to them about their interest in attending this forum. Schiewe will begin to plan this event (to occur sometime in March 2006), and the Committees agreed that it make sense that two sessions could be planned (one to take place near Pateros and one in Wenatchee).

#### *D. Next Meeting*

The next meeting will be held at 9 am on Tuesday, November 15, 2005, at NMFS Northwest Fisheries Science Center in Seattle.

## **VII List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Dick Nason	DNC
Tom Kahler	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member





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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Ali Wick, Dick Nason, Chuck Peven, Erich Wolf, and Kevin Kytola  
**Date:** December 15, 2005  
**Re:** Final Minutes of November 15, 2005 HCP Hatchery Committees Meeting

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at the Northwest Fisheries Science Center, Seattle, Washington on November 15, 2005 from 9:00 am to 3:00 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final October 19, 2005 Meeting Minutes to the Hatchery Committees by email (Item I).
- Kirk Truscott will check with Bob Rogers (Washington Department of Fish and Wildlife [WDFW]) and provide the Committees with a summary of the fish health treatment plan for Chiwawa spring chinook, along with a current status report (Item II-A).
- Mike Schiewe will bring the idea of revisiting the selection of reference streams for all the HCP hatchery programs to the Coordinating Committees, and will call Steve Parker (Yakama Nation) for his input (Item II-B).
- Kris Petersen will provide the meeting minutes to the Committees from the recent Entiat landowners meeting (Item II-C).
- Mike Schiewe will revise the Statement of Agreement for Rock Island coho determination to reflect Committee comments and will send it to the Committees within the week for final review (Item III-C).
- Committees members will provide a response to Tom Scribner on whether their respective entities support the general idea of coho restoration in the Mid-Columbia (Item III-C).

- Kirk Truscott and Rick Stilwater will discuss concerns about the proposed Chiwawa Hatchery water valving scheme with Sam Dilly, an engineer with Chelan PUD (Item V-A).
- Shaun Seaman will prepare a written proposal of the Chiwawa Hatchery water valving operations and implementation details and will provide it to the Committees on Monday, November 21 (Item V-A).
- At the next meeting, Chelan PUD will provide a detailed study plan regarding steelhead management for Committee consideration (Item V-D).
- Before the next meeting, the Joint Fisheries Parties (JFP) will discuss a near-term strategy for managing straying in the Wenatchee basin, with emphasis on the White and Chiwawa rivers (Item V-E).

## **DECISION ITEM SUMMARY**

There were no decision items at this meeting.

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Committees approved the October 19, 2005 Meeting Minutes as amended. Ali Wick will send the Final Minutes by email. Attendees are listed in Attachment A to these Meeting Minutes.

### **II Updates: WDFW (Kirk Truscott)**

#### *A. Chiwawa Holding Ponds - Recent Mortalities and Treatment*

Kirk Truscott updated the Committees on recent mortalities (up to 600 fish per day) due to a fungal infection at the Chiwawa Holding Ponds. This is similar to a situation that occurred involving the 2001 brood. To treat the fungus infection, WDFW switched the water source on November 10 from Chiwawa River water (33 to 36° C) to Wenatchee River water (43 to 48° C) and initiated a 10-day formalin treatment. The use of formalin requires a higher water temperature for application.

Temperature probes have been ordered and will be installed by Monday, November 28, 2005.

Truscott will provide the Committees with a fish health recommendation from Bob Rogers (WDFW) and the current mortality count to date.

*B. Recent Meetings with the Forest Service and Washington Trout*

Kirk Truscott updated the Committees that WDFW, Douglas PUD, Yakama Nation, U.S. Fish and Wildlife Service (USFWS), and Washington Trout met on October 25 regarding the Chewuch weir process. The purpose of the meeting was to clarify the various legal obligations involved in the weir process (U.S. v. Oregon, etc., HCP mitigation, treaty trust responsibilities). At the meeting, Washington Trout gave its opinion that supplementation in the Chewuch River is highly experimental and suggested that it be designated a reference stream before any supplementation occurred. The Committees discussed the idea of selecting reference streams for all the HCP hatchery programs; this will be a discussion item at the next Hatchery Committees meeting. Mike Schiewe will bring this up to the Coordinating Committees and will call Steve Parker (Yakama Nation) for his input.

These same Wells HCP member groups met with representatives of the U.S. Forest Service on November 14 to discuss their concerns regarding the Chewuch Weir. The primary focus of their concerns was that somehow the weir would restrict access to the area above the weir where the Forest Service was investing funds in habitat restoration. The Forest Service was informed that their concerns were without foundation.

*C. Recent Entiat Landowner Meeting*

Kirk Truscott and Kris Petersen updated the Committees that they and other Committees members had met with a small group of landowners (approximately 15 people) to discuss issues in the Entiat Watershed regarding reference areas, resident trout populations, and harvest opportunities. Sarah Walker will be preparing meeting minutes and Petersen will provide these to the Committees.

**III Updates: Yakama Nation (Tom Scribner)**

*A. Coho Trapping at Wells Dam*

Tom Scribner updated the Committees that coho trapping at Wells Dam began on October 12. To date, 135 coho were collected at Wells Dam and 123 fish were collected at Winthrop Fish Hatchery. The collection goal is approximately 230 fish; this goal has been met and trapping has been completed.

*B. Coho Long-term Plan*

Tom Scribner updated the Committees that the Long-Term Coho Plan will be submitted to the Northwest Power Planning and Conservation Council on January 10, with the expectation that a funding decision will be made in October 2006; however, Scribner indicated that Yakama Nation hoped to have some indication of the funding prior to this date.

*C. Deferral Memo for Coho Mitigation*

Mike Schiewe provided a draft Statement of Agreement (prepared at the request of the Hatchery Committees) stating that the Rock Island Hatchery Committee agreed to defer until 2006 their determination regarding the existence of a naturally sustaining coho population and/or long-term coho hatchery program above Rock Island Dam, pursuant to the Coordinating Committees approval of the revised schedule (October 2006 – see Item II-B). Mike Schiewe will revise this Statement of Agreement with comments and will send it to the Committees within the week. The Committees will consider the Statement of Agreement prior to the December meeting. Also, at Tom Scribner's request, Committees members will provide a response to Scribner on whether their respective entities support the general idea of coho restoration in the Mid-Columbia.

**IV Updates: Douglas PUD (Rick Klinge)**

*A. Wells Hatchery Surface Water Screens*

Rick Klinge updated the Committees that work on the Wells Hatchery intake screens is upcoming and will be completed by March 2006.

*B. Fish/Water Management Tools for Okanogan Sockeye*

Rick Klinge updated the Committees that reports on the Fish/Water Management Tools will be completed shortly; Klinge will pass these reports to the Committees after receipt.

*C. Decision Rules for Douglas PUD Monitoring and Evaluation Plan*

Rick Klinge updated the Committees that Douglas and Chelan PUDs and WDFW have been working with Tracy Hillman of BioAnalysts, Inc. to determine the statistical power, sample size, and timeframe for implementation of the PUD's Monitoring and Evaluation (M&E) Plan. The team anticipates having a draft decision rule document to the Committees by the December meeting.

*D. Draft 2005 Wells HCP Action Plan*

Rick Klinge provided the Draft 2005 Wells HCP Hatchery Production Compliance Report to the Committees. This will be provided in final form to the Committees at the next meeting.

## **V Updates: Chelan PUD (Shaun Seaman)**

### *A. Chiwawa Water Supply*

Shaun Seaman updated the Committees that Chelan PUD has been investigating options for interim operations at the Chiwawa Rearing Ponds that would minimize the use of Wenatchee River water. Chelan PUD would likely be able to implement this scheme this year (2005). Kirk Truscott and Rick Stilwater will discuss these potential plans with Sam Dilly, an engineer with Chelan PUD. Shaun Seaman will prepare a written proposal of operations and implementation details and provide this to Committees members on Monday, November 21. A conference call is scheduled for Wednesday, November 23 at 9:00 am to discuss.

### *B. 2005/2006 Feasibility Studies*

Shaun Seaman provided an updated draft table of 2005/2006 feasibility studies. Some schedules have shifted for some of the projects in the table (Attachment B). Key changes involved the following: 1) the schedule for the design of the resident fish programs at Chelan Falls and 2) the schedule for the design phase of the separate egg handling room for the incubation building at Eastbank Hatchery.

### *C. Hatchery Planning - Schedule*

Shaun Seaman provided an overview of the overlap in 2005/2006 proposed work for certain hatchery and acclimation facilities. This chart comprises a summary of some of the proposed work described in detail in the draft table of 2005/2006 feasibility studies.

### *D. Steelhead Planning – Wenatchee Basin Releases*

Chuck Peven provided the Committees with a potential timeline and options for steelhead rearing and release alternatives. This was based on discussions and recommendations from Andy Dittman (National Marine Fisheries Service [NMFS]) and Andrew Murdoch (WDFW). At the next meeting, Chelan PUD will provide a detailed study plan and approach for Committee consideration.

### *E. Chiwawa Average Stray Rates to the White River*

Chuck Peven provided a table of hatchery stray rates for Chiwawa spring Chinook and commented that the average 1992-2003 stray rate to the White River was 3.4 percent, which is within the 5 percent goal for straying that has been set for the overall drainages in the Chiwawa Watershed. The Committees discussed the justification for Chelan PUD's obligation to raise non-White River fish collected as part of the egg collection that occurred this past year. Before the next meeting, the JFP will discuss and prepare a summary of their near-term strategy for managing straying in the Wenatchee basin, with emphasis on the White and Chiwawa rivers.

## **VI Other Items (Mike Schiewe)**

### *A. Bacterial Kidney Disease White Paper Progress*

Mike Schiewe updated the Committees on his progress on the Bacterial Kidney Disease (BKD) White Paper; he has completed the majority of the interviews and has begun to compile information for the paper. The PUDs agreed that interviewees should have the opportunity to review the paper when it is distributed in draft form (as opposed to pre-draft form). Schiewe will be attending the BKD conference in Seattle this week.

### *B. Lake Wenatchee Sockeye*

The Committee discussed that Andrew Murdoch's presentation on Lake Wenatchee sockeye will occur at the January meeting, provided that date works for Andrew.

### *C. Next Meeting*

The next meeting will be held on Wednesday, December 14, 2005, at Chelan PUD in Wenatchee.

## **VII List of Attachments**

Attachment A—List of Attendees

Attachment B – 11/17/05 Draft Copy of Fish and Wildlife 2006 Budgeted Work for Chelan PUD.

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Dick Nason	DNC
Rick Klinge *	Douglas PUD
Chris Carlson	Grant PUD
Kristine Petersen *	NMFS
Kevin Kytola	Sapere Consulting
Erich Wolf	Sapere Consulting
Kirk Truscott *	WDFW
Tom Scribner *	Yakama Nation

\* Denotes Hatchery Committees member

**ATTACHMENT B**  
**11/17/05 DRAFT COPY OF FISH AND WILDLIFE 2006 BUDGETED**  
**WORK FOR CHELAN PUD**



DRAFT COPY (11-17-05)										
FISH AND WILDLIFE 2006 BUDGETED WORK										
PLANNED PROGRESS/BUDGETS										
	BOE Completed	Project Lead	2005		2006		2007		2006 Cost Resp.	Budget Notes
			Planned Progress	Estimate \$	Planned Progress	Estimate \$	Planned Progress	Estimate \$		
<b>EASTBANK:</b>										
Separate egg handling room for incubation building	Y						Feasibility/Design & Const	30,000.00	F&W O&M	Complete scope of work unknown, place holder budget
Improve chemical storage at Carlton and Dryden	N				Design & Const.	35,000.00			O&M - Gen	Could be capital or O&M, depending on scope of work and chosen improvement - Generation budget
Additional adult holding segregation capacity (Eastbank Hatchery Intermediate Tank Feasibility, task 7)	Y		Complete feas. 2005	18,500	Design & Const.	245,000.00			Cap - Gen	
Enclose spawning area (Eastbank Hatchery Spawning Structure Feasibility, task 5)	Y		Complete feas. 2005	18,500	Design & Const.	40,000.00			Cap - Gen	
PA system	Y	Gary Klingele			Design & Const.	5,000.00			O&M - Gen	Complete scope of work unknown, place holder budget
<b>ROCKY REACH ANNEX - TURLEROCK ISLAND</b>										
Wastewater treatment pond upgrade	N	Vern Chamberlain	In progress (Vern)						O&M - Gen	Vern's Project - Not included in this budget analysis
<b>TURLEROCK ISLAND REARING PONDS: (TURLEROCK ISLAND FEASIBILITY , TASK 2)</b>										
Will not decommission / standby until other facilities completely operable - \$41,710		George Velazquez	Feasibility (task 2)	20,500		41,710.00			O&M - Gen	Since placing in stand-by will not happen until another location is in production, this estimate is for miscellaneous maintenance (remove outfall dock if necessary)
<b>CHELAN FALLS HATCHERY</b>										
CHELAN FALLS REARING FACILITY FEASIBILITY, TASK 3	N	George Velazquez		33,500	Design	100,000.00	Construct			Furthur develop final site for facility - after feasibility completeion additional sites were assessed (entiat, Chief Jo, etc)
New groundwater well to meet water rights (Chelan Falls Wellfields Evaluation - drill wells in 2006 task 8)	Y		Feas. 2005, 2006	39,747.11	Additional feas./Design & Construct	1,000,000.00			Cap - Gen	This would include an aquifer sustainable yield analysis, rehabbing existing wells and installing 2 new test wells (original estimate of \$3,435,000 was revised to \$1,000,000 at budget review by finance, Executive team, Bill Christman.
Water supply pipe repair/replacement \$48,726			Partial Feas in 2005		Additional feas.	20,000.00			O&M - Gen	This budget encompasses further feasibility work and potential repair work if we experience another break. Material and labor is included in Jim Grays Budget.
Chelan Falls Hatchery Intermediate Tank Feasibility (task 6)	Y	George Velazquez	Feas in 2005	18,000			Design & Const.	265,000.00	Cap - Gen	Deferred to design and construct in 2007 on 10-27-05. 7 tanks and building included in this est.
Refurbish all raceways (Feasibility only in 2006)	Y	George Velazquez			Feasibility	75,000.00	Design & Construct		F&W O&M	Budget includes feasibility work only Need to consider piping designs to accommodate ineractions of resident fish and steelhead (use or nonuse of reuse water
Predator exclusion system Per alt. #3 - Rick would rather have nets just like we currently have; not the Chiwawa type. (In refurbish all raceways)	Y	George Velazquez			Feasibility	included above	Design & Construct		F&W O&M	
Add raceways to allow for segregation requirements. Feasibility in 2006 (include in refurbish all raceways). \$49,118	Y	George Velazquez			Feasibility	included above	Design & Construct		F&W O&M	
<b>CHIWAHA PONDS: (CHIWAHA REARING FACILITIES UPGRADE FEASIBILITY, TASK 1)</b>										
Pond segregation, and liners (includes center wal replacement and valving changes to supply and discharge		Sam Dilly	Feasibility complete in 2005	19,500			Design & Const.		Cap - Gen	Projects may not be completed until 2007 or 2008 depending on water rights and permits
Chiwawa Hatchery Water Supply Alterations: Provide means to mix water sources \ Access alternative water source for homing issues, ecology issues - using 6 CFS	Y	Sam Dilly	Feasibility complete in 2005				Design & Const.	506,000.00	Cap - Gen	
		Sam Dilly			Feasibility/Design	100,255			Cap - Gen	Duncan Hay working on Water Feasibility - WDFW wants fish on Chiwawa River Water/frazelice issues. Steve Weists Project - not included in this budget analysis.
Chemical storage improvement needs					Design & Const.	35,000.00			Cap - Gen	Costs needs to be verified
<b>SIMILKAMEEN POND: (SIMILKAMEEN REARING FACILITY WATER QUALITY FEASIBILITY, TASK 4)</b>										
Groundwater supply for pathogen management	Y		Feasibility partially complete 2005	4,252.89	Feasibility	107,000.00			F&W O&M	Feasibility completion in 2006 - CH2MHill has completed some investigations and will write up findings to-date - have Steve Hays involved.
New Chemical storage improvement needs					Design & Const.	35,000.00			Cap - Gen	Waiting for outcome of water quality work which may prevent this need
<b>ADDITIONAL PROJECTS ADDED ON 10-6-05</b>										
Wenatchee Steelhead Acclimation	Y	George Velazquez			Feasibility	75,000.00			F&W O&M	Fish are currently being raised at Chelan Falls and transported to TRI
Dryden Right Bank Improvements - for fish handling	N					0.00				Thad Mosey and internal labor to complete this work in 2006 1. Repair the spray bar in the holding area. Seems to be wearing and has a couple of cracks in it 2. Decrease the width between bars on the V-trap entrance weir at the holding facility. Smaller salmonids, i.e. sockeye, are getting stuck between the bars. The are becoming wedged by their gill plates
Adult Steelhead holding	Y	George Velazquez			Feasibility	50,000.00			O&M - Gen	Water temperatures get too high because we hold the fish for long periods.
Tumwater PIT tag coil evaluation and installation		George Velazquez			Feasibility \design	80,000.00	Construction	200,000	F&W O&M	F&W O&M for 2006, 2007 installation cost responsibility TBD
Budget Totals				172500		2,043,965.00		1,580,000.00		



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees

**From:** Michael Schiewe, Chair, HCP Hatchery Committees

**CC:** Ali Wick, Chuck Peven, Sam Dilly, Rick Stilwater

**Date:** December 15, 2005

**Re:** Final Minutes of November 23, 2005 HCP Hatchery Committees Conference Call

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Selected members of the Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCP) Hatchery Committees met by conference call on Wednesday, November 23, 2005 from 9:00 am to 10:00 am to discuss the proposed pilot study for water supply at the Chiwawa Hatchery. Attendees included are listed in Call Minutes Attachment A.

### **CALL MINUTES**

Ali Wick opened the call by listing the attendees and asked Kirk Truscott to give an update on the fish health recommendations from Bob Rogers regarding the recent fungal infection at the Chiwawa Hatchery. Truscott agreed to send out a memorandum from Rogers which details the progress of the treatment of the infection and the possible causes for the event. Chelan PUD indicated that it may ask WDFW to conduct further testing, depending on the contents of the memorandum. The Committees agreed to review this memorandum and to discuss further questions with WDFW. A follow-up conference call may be scheduled to discuss further, but a call was not scheduled at this time.

Shaun Seaman introduced Sam Dilly to the group and discussed the main purpose for the call, which was to review the preliminary plans for pilot testing a water blending strategy at the Chiwawa Hatchery. The Committees had reviewed the plan memorandum (previously provided) and asked for clarification on any potential risks of the tests. Dilly discussed two of these risks: 1) Risk of flow index increases (up to two-fold for two hours), and 2) power shortages. Dilly commented that these risks are likely minimal due to the temporary nature of flow index increases; in addition, preliminary power testing indicated that existing power infrastructure is sufficient to cover testing as well as any potential outages during testing.

Chelan PUD has proceeded with acquiring relevant permits and anticipates that construction could begin as early as the week ending December 9.

Chelan PUD agreed to send out detailed protocols to the Committees by the end of the week ending December 2. These protocols will include test timing and duration, water quality parameters to be tested, impacts to WDFW staffing, fish observation protocols, and an indication of when the Committees can expect updates on testing. Committees members present on the call agreed with the preliminary plans for testing and agreed that Chelan PUD could proceed as necessary with the plans laid out for testing. Kirk Truscott clarified that he and WDFW staff have expressed support for the project moving forward, and have considered concerns with respect to fish health (including the recent fungal infection at the hatchery) in this decision to support the project. Ali Wick agreed to contact Jerry Marco (Colville Tribes) and Brian Cates (USFWS) who were not able to join the call, to verify approval from those entities and will update the Committees with approvals from these entities.

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Michael Schiewe *	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman	Chelan PUD
Chuck Peven	Chelan PUD
Sam Dilly	Chelan PUD
Kristine Petersen *	NMFS
Kirk Truscott *	WDFW
Rick Stilwater	WDFW
Tom Scribner	Yakama Nation

\* Denotes Hatchery Committees member



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## Final Memorandum

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**To:** Wells, Rocky Reach, and Rock Island HCP Hatchery Committees  
**From:** Michael Schiewe, Chair, HCP Hatchery Committees  
**CC:** Chuck Peven, Tom Kahler, Keely Murdoch, Dick Nason, Kevin Kytola, and Ali Wick  
**Date:** January 19, 2006  
**Re:** Final Minutes of December 14, 2005 HCP Hatchery Committees Meeting

---

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees met at Chelan PUD in Wenatchee, Washington on December 14, 2005, from 9:30 am to 2:30 pm. Attendees are listed in Attachment A to these Meeting Minutes.

### **ACTION ITEM SUMMARY**

- Ali Wick will send the Final November 15, 2005 Meeting Minutes and the Final November 23 Conference Call minutes to the Hatchery Committees by email (Item I).
- Kirk Truscott will provide the draft proposal for scoping new acclimation ponds opportunities in the Upper Columbia Basin to the Committees by January 3 (Item II-A).
- Ali Wick will send out details for a conference call to be held on January 5 to discuss the draft proposal for scoping potential acclimation pond opportunities in the Upper Columbia Basin (Item II-A)
- Chuck Peven will provide the Committees with a charter (i.e., proposed project summary) for the pilot water testing project at Chiwawa Hatchery (Item IV-A).
- Committees members will provide comments to Chelan PUD on the information and scheduling laid out in the *Wenatchee Steelhead Road Map* document by Friday, January 13 (Item IV-C).
- Chuck Peven will summarize information on steelhead use of tributaries and potential criteria for decision-making regarding release sites (Item IV-C).
- Chuck Peven will provide the *Potential Steelhead Rearing Strategy Experimental Design* document, to include interim operations, to Ali Wick for distribution to the Committees (Item IV-C).

- Committees members will provide Chuck Peven with any additional comments on the *Potential Steelhead Rearing Strategy Experimental Design* document prior to the next meeting (Item IV-C).

## **DECISION ITEM SUMMARY**

There were no decision items at this meeting.

### **I Welcome and Meeting Minutes Approval (Mike Schiewe)**

Mike Schiewe opened the meeting. The Committees approved the November 15, 2005 Meeting Minutes and the November 23 Conference Call Minutes, both as amended. Ali Wick will send the Final Minutes by email. Attendees are listed in Attachment A to these Meeting Minutes.

### **II Updates: WDFW (Kirk Truscott)**

#### *A. Proposal for Scoping New Acclimation Pond Opportunities in Upper Columbia Basin*

Kirk Truscott updated the group that Washington Department of Fish and Wildlife (WDFW) is currently preparing a proposal for submission to the Northwest Power Planning and Conservation Council (NPPC) for scoping potential acclimation pond opportunities in the Upper Columbia Basin. WDFW acknowledged that any proposal for these activities would need to be coordinated with the Committees. Truscott clarified that the fish raised in these potential ponds could potentially include the Chelan and Douglas PUDs HCP program fish, but would not be limited to these fish. Truscott agreed to share the working draft with the Committees by January 3 (at the latest), and a conference call is scheduled for January 5, at 9 am. Ali Wick will send out conference call details. Jerry Marco commented that the Colville Tribes are preparing a proposal for submission to the NPPC for steelhead acclimation ponds in the Okanogan Basin.

#### *B. 2005 Spring Chinook in Net Pens in Lake Wenatchee*

Kirk Truscott updated the group that WDFW is proposing to rear 2005 White River spring Chinook in net pens in Lake Wenatchee at the confluence of the White River from March 2007 until April 2007, when they would be released into Lake Wenatchee. Truscott clarified that this is within WDFW's current 401 permit held with Ecology. Truscott asked for clarification from the PUDs that the agreement Chelan PUD holds with Friendship Lodge could accommodate this activity. Shaun

Seaman clarified that the current agreement addresses only access to the net pens for the purposes required for Chelan PUD program fish, and that the agreement would need to be amended or clarified to accommodate the access required for WDFW's proposed activity. The Committee agrees that this proposal is a logical procedure and that WDFW can proceed with this proposal.

### **III Updates: Douglas PUD (Rick Klinge)**

#### *A. Hatchery Production Compliance Report*

Rick Klinge commented that he will email to Ali Wick a summary from the Hatchery Production Compliance Report with program information and progress toward meeting No Net Impact (NNI); Wick will send this out to the Hatchery Committees. This document will be included in the Douglas PUD Annual Report.

#### *B. Draft Decision Rules for M&E Plan*

Rick Klinge updated the group that Douglas and Chelan PUDs are working with Tracy Hillman on a statistical power analysis to determine sample size and duration of monitoring necessary to show a significant increase in spawning summer Chinook as a result of supplementation. For this analysis, they are using data from the Wenatchee system. This report will help identify statistical power needs for implementing the Monitoring and Evaluation (M&E) Plans and to guide the evaluation of apparent trends in these data. The PUDs and Hillman will complete the draft report by the end of January and then Hillman will present the report to the Committees prior to the February meeting.

#### *C. 2005 Action Plans*

Rick Klinge and Mike Schiewe confirmed with the group that the 2005 Action Plans for each of the PUDs will be provided by email to all four HCP Committees (including Policy Committees).

### **IV Updates: Chelan PUD (Shaun Seaman and Chuck Peven)**

#### *A. Chiwawa Water Supply*

Chuck Peven updated the Committees that construction at Chiwawa Hatchery began last week, and that the pilot water test is expected to commence approximately December 25. A charter (i.e., proposed project scope and summary) for the testing project is almost complete and Chelan PUD will provide this to the Committees for review prior to the next meeting in January.

*B. Upcoming Planned Construction Work*

Chuck Peven also provided a summary update on the status of the ongoing feasibility studies and construction work for 2006-2007.

*C. Wenatchee Steelhead Road Map*

Shaun Seaman provided the group with a document titled *Wenatchee Steelhead Road Map* to illustrate scheduling and decision paths for Wenatchee steelhead; Kevin Kytola of Sapere Consulting, Inc. gave an overview of the document. Chelan PUD requested Committee comments on the information and scheduling laid out in this document prior to the next meeting. Also, Chuck Peven was asked to develop a summary of current steelhead use of the tributaries for Committees consideration when reviewing the *Wenatchee Steelhead Road Map*. The Committees also requested that Chelan PUD develop potential plans for interim operations.

One of the key decision points on the *Wenatchee Steelhead Road Map* involves the comparative release study, described in a document distributed at the meeting, *Potential Steelhead Rearing Strategy Experimental Design*. Chuck Peven will provide this document to Ali Wick for distribution to the Committees. The document describes three proposed experimental rearing strategies and the decision process for selecting a strategy to be implemented in 2006. Chelan PUD will revise this document for the next meeting and requests that Committees members provide any additional comments as soon as possible.

*D. Work Requests to Chelan PUD Facilities*

Shaun Seaman commented that in order to facilitate upcoming work requests for Chelan PUD-owned facilities, it would be efficient for the timing of this work if these requests are submitted to Chelan PUD as early in the year as possible.

*E. Upcoming Meetings and Items*

Chuck Peven and Keith Truscott will be meeting with Washington Trout concerning Chelan PUD Hatchery programs on Monday, December 19. Chuck Peven will be attending the Governor's Salmon Monitoring Forum as a representative of Chelan PUD and he will provide the Committees with periodic updates from these ongoing Forum meetings. Chelan PUD has made decisions concerning the implementation of the M&E Plan; this will be a discussion item for the next meeting.



## **V Other Items (Mike Schiewe)**

### *A. Hatchery Programs and Public Process Implications*

Mike Schiewe updated the group that the Coordinating Committees are considering hosting a workshop for the HCP Committees and the Priest Rapids Coordinating Committee (PRCC) to review goals and progress in implementing the HCP Hatchery Program. An important part of the discussion would a focus on public perspectives of the program to better educate the public. To facilitate scheduling, Schiewe will be drafting a prospectus and will begin discussing a potential date for the workshop with Denny Rohr, who facilitates the PRCC meetings. This workshop could be scheduled for as early as February 2006, but will likely occur later in the year so that Committees members can organize the needed information.

### *B. Tagging and Survival Studies Workshop*

Mike Schiewe updated the group about the idea of Hydroacoustics Technology Inc. (HTI), Columbia Basin Research (CBR) and Chelan PUD, presenting a refresher workshop for the HCP Committees and the PRCC on tagging protocols and study methodologies. Part of the session would also be devoted to survival study design and analysis. This meeting is potentially planned for a half or full day in SeaTac on Monday, February 6.

### *C. BKD White Paper Update*

Mike Schiewe updated the group that he is nearly finished preparing the BKD White Paper; Schiewe expects to have a draft document completed and sent to the Committees for review by the end of December. Schiewe will also be sending this document to the interviewees from the document for comment.

### *D. Deferral Memorandum for Coho Mitigation at Rock Island*

Mike Schiewe updated the group that the Coordinating Committees approved the schedule change for a decision on coho mitigation until 2006 for the Rock Island HCP. Chelan PUD (the "District") supplied the following comments regarding the Rock Island Hatchery Committee's December 6, 2005 Statement of Agreement:

- The District supports the Statement of Agreement as written, but would like to clarify that the District does not intend to defer its decision under Section 8.4.3. of the Rock Island HCP beyond 2006. Upon approval of the Statement of Agreement, the District's position is that decision will be required in 2006.

- In approving the Statement of Agreement, it is important to recognize that the District's hatchery compensation commitments are only triggered by a decision of the Hatchery Committee that a coho hatchery program and/or naturally reproducing population of coho exists.
- The HCP was developed pursuant to Section 10 of the Endangered Species Act ("ESA") to provide incidental take protection for listed Plan Species. The Hatchery Committee should ensure that any coho reintroduction program supported by the HCP is implemented in a manner consistent with the ESA and the continued protection of currently listed Plan Species

#### *E. Next Meetings*

The next meeting will be held on Wednesday, January 18, 2006, at Chelan PUD in Wenatchee.

## **VI List of Attachments**

Attachment A—List of Attendees

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
Mike Schiewe	Anchor Environmental, L.L.C.
Ali Wick	Anchor Environmental, L.L.C.
Shaun Seaman *	Chelan PUD
Chuck Peven	Chelan PUD
Jerry Marco *	Colville Tribes
Dick Nason	DNC
Rick Klinge *	Douglas PUD
Tom Kahler	Douglas PUD
Shane Bickford	Douglas PUD
Chris Carlson	Grant PUD
Kevin Kytola	Sapere Consulting (by conference call)
Mike Delarm	NMFS (by conference call)
Brian Cates *	USFWS
Kirk Truscott *	WDFW
Keely Murdoch	Yakama Nation

\* Denotes Hatchery Committees member

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**APPENDIX C**

**HABITAT CONSERVATION PLAN TRIBUTARY COMMITTEES  
OPERATING PROTOCOLS AND MEETING MINUTES**

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**TRIBUTARY COMMITTEES' OPERATING PROCEDURES  
WELLS, ROCKY REACH, AND ROCK ISLAND  
HABITAT CONSERVATION PLANS**

**I. PURPOSE**

The Tributary Committees (hereafter, Committees) to the Wells, Rocky Reach, and Rock Island Projects' Habitat Conservation Plans (HCPs) are established to implement the Tributary Conservation Plans (Plans) as described in the respective HCPs. The Plans provide a Plan Species Account to fund projects for the protection and restoration of Plan Species<sup>1</sup> habitat within the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace (called the Upper Columbia Region) and the Okanogan, Methow, Entiat, and Wenatchee River watersheds. These funds are intended to compensate for 2 % of the unavoidable mortality to salmonids (which is estimated to be 9%) at each of the three hydroelectric projects.

The Committees are charged with the task of selecting projects and approving project budgets from the Plan Species Accounts, described in Section IX. The Committees will meet concurrently, but voting will be conducted on an individual project basis, i.e. the Wells Tributary Committee will vote on issues to be funded by the Wells Project Plan Species Account, the Rocky Reach Tributary Committee for issues to be funded through the Rocky Reach Plan Species Account, and the Rock Island Tributary Committee will vote on issues funded by the Rock Island Plan Species Account.

These Operating Procedures are intended to provide general guidance to members of the Committees and to help stakeholders understand the functions of the Committees. It does not supersede any aspects of the Anadromous Fish Agreements and Habitat Conservation Plans for Wells, Rocky Reach, or Rock Island Hydroelectric Projects. Readers should refer to those agreements for an understanding of the specific authority and function of these Committees<sup>2</sup>.

**II. MISSION STATEMENT**

The Mission of the Tributary Committees is *"To fund and support sustainable long-term, cost-effective projects that protect and restore Plan Species habitats and to foster partnerships with those that implement such projects."*

**III. GEOGRAPHIC AREA**

The Plans do not stipulate the relative allocation of funds to each tributary, yet each does specify a geographic description that funding from each Plan is limited to. Funds from the Wells Plan shall be directed toward the Columbia River and its tributaries from the Chief Joseph Dam tailrace to the Wells Dam tailrace. Rocky Reach and Rock Island funds can be directed within the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace. The primary focus will be actions in the Okanogan, Methow, Entiat, and Wenatchee watersheds, yet projects in the smaller tributaries to the Columbia River will be considered. All three Plans may include waters of British Columbia that flow into the Okanogan watershed.

**IV. MEMBERSHIP**

The Committees have one representative of each signatory party to the Plans. Members of each committee will be required to notify the chair (in written form, email, or in the previous meeting) of their inability to attend a proposed meeting, and their alternate voting member, if so chosen.

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<sup>1</sup> Plan species include Chinook salmon, sockeye salmon, coho salmon, and steelhead.

<sup>2</sup> Please refer to Section 7 of the individual HCPs for a description of authorities.

## ***ADOPTED DRAFT (10 January 2006)***

As of September 2005, the Rock Island and Rocky Reach Committees have the following voting members:

- Dale Bambrick, National Oceanic and Atmospheric Administration--Fisheries
- Dennis Beich, Washington Department of Fish and Wildlife
- Chris Fisher, Confederated Colville Tribes
- David Morgan, U. S. Fish and Wildlife Service<sup>3</sup>
- Bob Rose, Yakama Nation
- Keith Truscott, Chelan County Public Utility District
- Bob Bugert, non-voting chairman.

Voting members of the Wells Tributary Committee are:

- Dale Bambrick, National Oceanic and Atmospheric Administration--Fisheries
- Dennis Beich, Washington Department of Fish and Wildlife
- Chris Fisher, Confederated Colville Tribes
- Tom Kahler, Douglas County Public Utility District
- David Morgan, U. S. Fish and Wildlife Service<sup>3</sup>
- Bob Rose, Yakama Nation
- Bob Bugert, non-voting chairman.

The HCP Coordinating Committees formally invited the Confederated Tribes of the Umatilla Indian Nation to the regular meetings of the Tributary Committees, as these non-signatory Tribes have federally-designated status as fisheries co-managers, and are directly affected by the proceedings. For regional coordination purposes, the Coordinating Committees have invited Grant PUD to participate as a non-voting member. Additionally, the Coordinating Committees have invited American Rivers, a party that contributed to the development of the HCP, yet elected not to sign. Participation of these parties benefits the Tributary Committees through increased coordination and sharing of expertise. These non-signatory parties would not participate in voting, however. The power purchasers to the Wells Project may participate as a non-voting observer through a single representative to the Tributary Committees, who shall be designated from time to time.

The Committees may also request the limited participation of stakeholders that are affected by the Committee's deliberations (such as a Watershed Planning Unit or state designated Lead Entity). These parties would have no voting authority and would be invited to attend specific Committee meetings on a limited basis and, at the Committees' discretion. The Tributary Committees will jointly sponsor a public forum with the Coordinating and Hatchery Committees on a periodic basis. These open meetings will allow direct communication with stakeholders and non-signatories.

Last, the Committees may ask technical experts to serve in an advisory capacity. At certain times, the participation of fluvial geomorphologists, hydrologists, engineers, and others with technical expertise may be necessary for knowledgeable deliberations on a specific project. The Committees may solicit the participation of these non-voting experts on an *ad hoc* basis.

### **V. MEETINGS**

Regular meetings of the Committees will be from 9:00 to 3:00 on the second Thursday of each month, unless otherwise agreed to by the Committees. As described in Section III, the

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<sup>3</sup> The representatives from U. S. Fish and Wildlife Service participate in a non-voting capacity unless they otherwise state in writing

## ***ADOPTED DRAFT (10 January 2006)***

Committees' meetings are open by invitation to specified stakeholders, based on the unanimous decision by the Committees. Additionally, the Committees may meet whenever requested by any two members following a minimum of ten days advance written notice to all members of the specific Committee.

The Committees' Chairman will distribute the meeting notice and agenda ten days prior to the meeting. The notice and agenda will outline matters to be addressed and voted on during the meeting. For key issues that the Committees must address at a meeting, the chairman will develop briefing papers to allow productive deliberations by the Committees during the meeting.

Within a week after the meeting, the chairman will distribute draft notes of the meeting to all Committees members (and non-members) who attended the meeting and to Committees members who were unable to attend. After a one-week review period by Committees members, the chair will distribute the final meeting notes, based on the comments and corrections provided by Committees members. Final review and approval of products by Committee members will take place prior to distribution to entities external to the Committees.

### **VI. CHAIRPERSON**

The Committees shall choose a neutral third party to chair the Committees' meetings. The chair is expected to prepare an annual report on the Committees deliberations, prepare periodic progress reports, prepare meeting minutes, facilitate meetings, and assist the Committees in making decisions. At least every three years, the Committees shall evaluate the performance of the chair. The chair shall be the official contact person of the Committees to stakeholders. In the event the Committees chairperson is unable to facilitate a scheduled meeting, the HCP Coordinating Committee chairperson shall function as an alternate.

### **VII. DECISION-MAKING**

The Committees shall act by unanimous vote of those members (or their proxies) present in person or by phone for the vote. Abstention does not prevent a unanimous vote. If a member or its designated alternative cannot be present for an agenda item to be voted upon, the member must notify the chair, who shall delay a vote on an agenda item for up to five business days on specified issue(s) to be addressed in a meeting, or as otherwise agreed to by the Committees. A member may invoke this right only once per delayed item. All decisions on funding will be held in a closed executive session. The Tributary Committees reserve the right to hold closed sessions on other issues, when necessary.

### **VIII. FULL DISCLOSURE**

After full written disclosure of any potential conflict of interest, which shall appear in the minutes of the Committees and prior to project approval, the Committees may approve a project that may benefit a person or entity related to a specific committee member, or an entity which appointed the committee member.

### **IX. COORDINATION WITH OTHER CONSERVATION PLANS**

At the discretion of the Committees, projects selected by the Committees may be coordinated with other salmon recovery efforts, which may include but not be limited to: Lead Entities, Regional Fisheries Enhancement Groups, the Watershed Planning Units, Upper Columbia Salmon Recovery Board, Washington State Salmon Recovery Funding Board, the Fish and Wildlife Program of the Northwest Power and Conservation Council, and other funding organizations. The Committees may cost-share with other programs when practicable.

## ***ADOPTED DRAFT (10 January 2006)***

### **X. PLAN SPECIES ACCOUNT**

The Public Utility Districts have established three “Plan Species Accounts” to fund salmonid habitat projects in the Upper Columbia Region. Interest earned on the funds in each Account shall remain in each Account. The Committees shall select projects and approve project budgets from each Account by joint written request of all members of the Committees. The Committees shall act in strict accordance with Section X (Prohibited Uses of Account). At least annually, the Public Utility Districts shall provide a financial report on the account activity of their respective Plan Species Accounts.

Administrative costs, staffing and consultants, reports and brochures, landowner administrative assistance, and public education costs collectively shall not exceed \$80,000 (1998 dollars) for each of the three Plan Species Accounts in any given year without the unanimous vote of the Committees’ members.

### **XI. PROHIBITED USES OF ACCOUNT**

No money from the Accounts shall be used to enforce compliance with the Plans. Members of the Committees and their expenses to attend and participate in Committees’ meetings shall not be compensated through the Accounts.

### **XII. SELECTION OF PROJECTS AND APPROVAL OF BUDGETS**

The Committees shall select projects and approve budgets for expenditures from the Accounts for the following:

- Salmonid habitat protection or restoration projects within the Upper Columbia Region. Projects shall be chosen based upon the guidelines and eligibility criteria set forth in the Committee’s Project Policies and Procedures Manual.
- Feasibility studies, implementation, monitoring, and legal expenses associated with any project financed from the Accounts. A separate Tributary Assessment Fund has been established to evaluate the effectiveness of particular projects, and
- Prior approved administrative expenses associated with the Accounts.

### **XIII. CULTURAL ASSESSMENT AND CONSULTATION**

The PUD whose Tributary Committee approves a project shall initiate cultural resource consultation with the affected tribe(s) and the Washington State Historical Preservation Officer (SHPO) and the Tribal Historic Preservation Officer (THPO). The PUD will then facilitate the determination as to whether or not an on-site cultural resources survey is needed within the tributary project’s Area of Potential Effect (APE). Should an on-site cultural resources survey be necessary, the PUD whose Tributary Committee approved the project will select, in consultation with the affected tribes, an independent consultant from a list of qualified parties previously approved by the Committee. Survey or research design will be approved by the affected tribes and approval of the final product will be made through consensus of the affected Parties of this agreement.

In the event that an on-site cultural resource survey identifies items of cultural significance, the appropriate PUD in coordination with the Committee will either consult with any appropriate landowner(s), SHPO/THPO, and affected tribe(s) to develop a treatment plan, or take the appropriate action to withdraw funding obligations associated with the project. When treatment is the preferred alternative, all costs associated with consultation, evaluation, planning and implementation will be charged to the project.



## ***ADOPTED DRAFT (10 January 2006)***

Should any previously unrecorded potential archeological or historical sites or resources be discovered during the implementation of a project, regardless of whether an on-site cultural resources survey was conducted, the Sponsor and or its Contractor(s) shall immediately halt all project activities and notify the Committee's Project Coordinator. Upon such notification, the Committee's Project Coordinator shall contact the appropriate PUD cultural resource personnel and the Tributary Committee's Chairperson. The PUD cultural resource personnel shall notify the affected tribe(s).

The PUD will arrange for the discovery to be evaluated by a Professional Archaeologist or cultural specialist. If the cultural resources personnel and or the Professional Archaeologist determine that the site is potentially a National Register of Historic Places (NRHP) cultural or historic property, the following will be notified:

1. Any landowner with jurisdiction over the lands containing the discovery;
2. The Project Sponsor;
3. The affected tribe(s); and
4. SHPO/THPO

The Tributary Chairperson will notify the Tributary Committee members. The Tributary Committee will then convene as quickly as practical to consult with the affected tribe(s) and SHPO to determine the next steps.

Any expenditure related to cultural assessment shall be considered a project cost, be in addition to the approved project budget, and therefore be directly charged to the appropriate Plan Species Account. Such expenditures may include but are not limited to PUD communication with the affected tribes and SHPO/THPO, an on-site cultural resource survey or other costs associated with the discovery and with management of historic properties with the potential to be affected by project implementation.

**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 13 January 2005**

**Members Present:** Dale Bambrick (NOAA-F), Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), David Morgan (USFWS), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Others Present:** Bob Clubb (Douglas PUD), Russell Langshaw (Grant PUD)

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**Decisions Made:**

1. The Committees voted to adopt the Upper Columbia Biological Strategy as the interim technical foundation for funding decisions.
2. The Committees voted to solicit formal technical reviews of proposals by the Upper Columbia Regional Technical Team.

1. Adopt Agenda and 16 December Meeting Notes

The Committees reviewed and adopted the notes from the 16 December meeting. Dennis requested that the Committees revisit item 7 (the potential Salmon Recovery Funding Board grant to the Upper Columbia Salmon Recovery Board to administer a small grants program) and to continue discussions from that meeting on the implications of that action. Noting the need to have a high level of coordination with the UCSRB, the group asked Bob Bugert to review with the UCSRB the status of the SRFB grant to them, and to provide a report at the February meeting.

Bob Bugert reported that Bill Towey of Colville Confederated Tribes (a member of the Grant PUD Habitat Committee) asked to be included on the distribution list for the Tributary Committees' meetings. The Committees directed Bob Bugert to send the final notes and products to Bill.

The Committees adopted the proposed agenda, which is described below:

2. Draft Operating Procedures

The Committees reviewed the 20 December 2004 *draft* Operating Procedures. All felt comfortable with the language in the draft, but agreed that this will likely be modified as the group gains experience. Keith requested an opportunity to allow a final internal review by Chelan PUD prior to formal adoption and promulgation of the Operating Procedures. The group agreed to this request, and agreed to allow all parties to formally vote via email within two weeks of today's meeting.

Citing Section X. of the *draft* procedures, Keith inquired whether the Committees would be willing to allocate some portion of the administrative costs for the Districts' contract management. Dale responded that he would be open to this concept if the Districts' administration of the contracts was cost effective and, if it becomes a substantial addition to their normal work load. The group recognized that the administrative costs for small projects may create a burden for contract management. The Committees agreed that, in the near future, they may explore what methods of contract management would be most effective for the Committees. This may not be done until after the first contract cycle.

Dennis suggested that the Committees discuss the anticipated work load and needs for an individual or standing body to assist in invoice management and to conduct site inspection. The group asked Bob to do some research on the anticipated work, costs, and expectations for managing contracts and monitoring project implementation. This will be discussed at the February meeting.

### 3. Draft Funding Policies

The Committee reviewed the 13 January *draft* Funding Policies document. There was significant discussion on reimbursement policies and the best means to review and approve the individual invoices by the project sponsors. The group noted that the draft Policies document is at a stage of development that it warrants outside review by selected parties familiar with the contracting of habitat projects. Bob Bugert suggested that SRFB project managers, the land trusts, Lead Entities, and conservation districts could be asked to provide input. Additionally, the two utility districts will ask for legal review of the language in the document. The Committees will then review the comments to the document at the February meeting, for possible incorporation into the funding policies.

Keith asked what the Committees' expectation for financial reporting for 2004, noting that no expenditures were made, nor significant activity took place. The group said all that is needed would be the date that the funds were provided and the interest accrued.

Dennis proposed using some of the 2004 funds for fluvial geomorphic analysis of particular stream reaches. Dale concurred on this need for this, and felt that this would allow project sponsors to develop technically sound project proposals in the long term. The Committees asked Bob Bugert to look into what assessment would be most beneficial and to provide a report at the February meeting.

### 4. Mid-Columbia Forum

The Committees discussed whether they are ready to participate in a Mid-Columbia Forum, if held in March. It is assumed that the forum will be open to the public, with a formal introduction of the Tributary Committees, along with their operating procedures (and if completed, funding policies). The group directed Bob to work with Mike Schiewe on development of the forum, which they suggest should be held in Wenatchee sometime during the period 21 March through 1 April 2005. If the funding policies are completed by that time, the Tributary Committees will probably announce during the forum that the 2005 funding cycle is open.

5. The Upper Columbia Biological Strategy and Regional Technical Team

Bob Bugert described the *draft* Biological Strategy developed by the Upper Columbia Regional Technical Team (RTT), which establishes priorities for habitat protection and restoration at the regional, subbasin (HUC-4), and watershed (HUC-5) scale. Dale mentioned the concerns that may arise with local governments on the emphasis on habitat protection that is manifested in the strategy. The group acknowledged the sensitivity of this issue and expected to manage it accordingly.

Dale further commented on the recent work completed by the Interior Columbia Basin Technical Recovery Team (TRT), which identifies and characterizes salmonid populations within the Upper Columbia ESU. Their work provides guidance on actions to address the four Viable Salmonid Population parameters necessary for their delisting under the ESA. Bob Bugert agreed to the importance of the TRT work, and added that the technical foundation to the *draft* Upper Columbia salmonid recovery plan incorporates these concepts, and will likely replace the biological strategy as the framework to guide decisions on habitat protection and restoration projects. The language in the draft Funding Policies document reflects this assumption and approach.

Bugert distributed examples of the RTT technical reviews of SRFB project proposals, and explained the procedures and criteria used. After some deliberation, the Committees voted to adopt the Biological Strategy as the interim technical foundation for funding decisions, and to solicit formal technical reviews of proposals by the RTT.

6. Chelan PUD Web Site Design

Keith gave an update on the development of a Chelan PUD web site on the Tributary Fund, which would be a component of the districts general site. Bob Clubb said that Douglas PUD would likely have a similar site, and both would be linked to one another. Keith will have the sample content information available for the 10 February meeting. All supported the effort, and agreed that the web should be posted by the date of the March Forum.

7. Next Steps

The next meeting of the Tributary Committees is set for 9:00 to 3:00 on Thursday, 10 February at Douglas PUD. The tentative agenda items include the following:

- Review of *draft* Funding Policies
- Discussion of contract administration
- Review of *draft* application form
- Discussion of SRFB small grants program
- Discussion of channel assessments in selected reaches.
- Update on the web site design
- Preparation for March Forum

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 10 February 2005**

**Members Present:** Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), David Morgan (USFWS), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Members Absent:** Dale Bambrick (NOAA-F)

**Others Present:** Bob Clubb (Douglas PUD), Russell Langshaw (Grant PUD), Dick Nason (Chelan PUD consultant)

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**Decisions Made:**

1. The Tributary Committees (Committees) adopted the 10 February 2005 draft Operating Procedures with the amendments.
2. The Committees agreed that each District serve as the archivist for all records, materials and products generated by the respective Committees.

1. Adopt Agenda and 16 December Meeting Notes

The Committees adopted the noted from the 16 December meeting, and the proposed agenda. Bob Bugert asked to discuss the potential to engage in a dry-year water lease option, which is described below. Keith asked Bob to coordinate with Mike Schiewe on mean to outline decisions made in the meeting notes.

2. Dry Year Lease Option

Bugert said he had been approached by an irrigation district manager about leasing water for instream flow benefits, as part of the Trust Water Rights Program administered by the Washington Department of Ecology. He asked for direction from the Tributary Committee on exploring the feasibility of using funds for this option, and perhaps entering into a contract as early as the 2005 irrigation season. The group debated the merits of the program, and was concerned about the likelihood of completing the transaction by this irrigation season, and the perception of fairness if a contract was provided only to one district. Nonetheless, the Committees directed the chair to explore the options and to report back to them soon—most likely before the next meeting.

3. PUD Reports to FERC

Rick and Keith said that under their license to FERC, the Districts are required to submit reports on committee activities. These reports are due 31 March of each year. The report provides an accounting of funds available through each Plan Species Account, and an outline of decisions and activities of each committee. Both Districts distributed reports from their respective treasurers on Plan Species Account activities. Chelan PUD submitted roughly \$264,000 and \$556,000 on 16 September 2004 for disbursement by the Rocky Reach and Rock Island Tributary Committees, respectively. Douglas PUD

submitted roughly \$2.2 million to the account on 15 September 2004 for disbursement by the Wells Tributary Committee. Other than interest earnings, there was no financial activity for all three accounts in 2004. The next monetary submission will be in September 2005 for Chelan PUD. The Douglas PUD agreement states that their initial contribution will serve for a five year period. After five years, the Wells Committee has are two options for funding: either annual payments to the account or another large contribution for a ten year period.

4. Wenatchee and Entiat Channel Studies

Bugert distributed the fluvial geomorphic reports on the Wenatchee and Entiat, and described the work done on the reach-level studies. This initiated substantial discussion on how to “kick-start” the process for identifying and developing projects. The Committees deliberated whether to have subbasin-specific requests for proposals to conduct assessments of the most appropriate types of projects to be conducted. Bugert noted that Okanogan County is conducting a channel migration study to address floodplain management in the Methow. This is not specifically addressing fish habitat needs, so the Committee could fund some complementary work to this larger scale study to address Committee needs. Chris described the work underway to assess options for restoring flood plain function on Okanogan River upstream of Lake Osoyoos. Dick Nason suggested that the group refer to the Subbasin Plans and Biological Strategy for management plans. No specific actions were taken at this time.

5. Review of Draft Operating Procedures

The Committees reviewed the 14 January draft Operating Procedures. At the request of Dennis Beich, the group added language about using the Mid-Columbia Forum as a means to communicate with stakeholders on a periodic basis. The group agreed and directed the chair to ask Dale for his review and concurrence. If Dale concurs, the Committees will then adopt the draft with the amendments made on 10 February.

Keith referred to the language in Section III regarding the invitation of stakeholders to the Committees’ proceedings. Specifically, Keith said that the Lead Entities and Planning Units are of importance to Chelan PUD, and that Keith would request their attendance at specific meetings that are pertinent to those organizations. The Committee sought clarity on the prerogative of a Committee member in requesting attendance of a specific organization. The question is whether an invitation can be made by a single member, or at the consensus of the group. The group agreed that a single member can request the attendance of an outside party, as long as that member notifies all others in advance of the invitation. The chair will then structure the agenda accordingly. Dennis suggested that, at the end of each meeting, the Committees identify the next meeting’s agenda. This would allow all members to determine whom should be invited.

The group discussed two options for conducting business with stakeholders present: Conduct some meetings that are open to invitation and some closed. Or, have some part of a given meeting open, with the remainder closed. The group felt that the latter is more appropriate, and will attempt this at the 10 March meeting (discussed in item 12).

6. Review Comments Received On Draft Funding Policies

Keith said that Chelan PUD sought internal legal review to the draft document, and submitted comments to the 14 January draft. After review of the comments, the Committees directed the chair to incorporate all comments into the draft. Additionally, the Committees received comments from Okanogan County Lead Entity, Chelan County Conservation District, and the Chelan/Douglas Land Trust. After reviewing the comments, the Committees asked the chair to make a few minor changes to the draft to accommodate the comments, but felt that most of the issues raised by the reviewers can be addressed without modification of the funding policies document.

7. Preparations for March Forum

The group reviewed the agenda for the 29 March Mid-Columbia Forum that was developed by the Coordinating Committees. The Tributary Committees were comfortable with the approach, and expected that their part of the agenda should be 90 minutes in length. All Tributary Committee members except Dale will be available. The group asked the chair to put together a presentation for the Forum by the 10 March meeting for review and approval by the Committees. If the funding policies are completed by that time, the Tributary Committees will probably announce during the forum that the 2005 funding cycle is open.

8. NFWF/UCSRB Small Grants Program

Bugert reviewed the proposed schedule and logistics for the small grants program to be administered by the National Fish and Wildlife Foundation through the auspices of the Upper Columbia Salmon Recovery Board. No action was taken by the Committees.

9. Grant PUD Update

Russell Langshaw said the Priest Rapids Habitat Subcommittee had its first meeting. They reviewed the BiOp, the functions of the committee, and the funds available (\$288,000/year, stipulated in the BiOp). After the settlement agreement is signed, the funds will be a little over \$1 million per year. The settlement will establish the NNI standard and will make available an additional \$2.5 million per year, which will be provided on a sliding scale that remains in effect until NNI is achieved. The BiOp specifies that the fund can be spent on both mainstem and tributary habitat actions (including Hanford Reach).

Since the membership and functions of this committee is similar to the HCP Tributary Committees, the Grant PUD Habitat Subcommittee discussed the option of having both meetings on the same day. This committee will invite Douglas and Chelan PUDs to attend. They suggest that the concurrent meetings begin on 10 March. The Tributary Committees expressed concern about the strain on the workload and proceedings, and asked Russell to establish a separate meeting date. The group agreed to setting the morning of 17 March for the HCP Tributary Committees to meet, followed by Grant PUD Habitat Subcommittee in the afternoon.

10. Programmatic Permitting

The group concurred on the cost and biological benefits of securing a programmatic permit for implementation of projects. David Morgan said that USFWS and NOAA-F are developing a Habitat Improvement Program BiOp that allows for some programmatic permitting of projects funded through Bureau of Reclamation. Dennis expressed concern about whether this is applicable for fish listed as endangered, noting that WDFW has had success in getting programmatic coverage with threatened species only. The group asked Bob Bugert and David to explore the options for developing a programmatic permit for projects funded by the Committees.

11. Chelan and Douglas PUD Web Site Design

The Districts plan to have their web sites available by the date of the March 29 Forum. The site will have meeting agendas and minutes, and likely also include contacts, frequently asked questions, application forms, landowner agreement forms, and other materials germane to the Committees. The web site addresses are DouglasPUD.org and ChelanPUD.org

12. Project Development And Management

The Committees discussed the need to encourage local groups to develop solid projects for funding. The group asked the chair to invite Britt Dudek (Foster Creek Conservation District), Mike Kaputa (Chelan County), Julie Pyper (Okanogan County), Craig Nelson (Okanogan County Conservation District), and Sarah Walker (Chelan County Conservation District) to attend the first two hours of the 10 March meeting to discuss options for project development.

The Committees resumed discussions from previous meetings regarding the need to hire out an independent body to administer contracts, or whether it would be more cost-effective for the Districts to assume this responsibility. The chair will contact the National Fish and Wildlife Foundation to ascertain the expected costs and work load related to small and large project management.

13. Next Steps

The next meeting of the Tributary Committees is set for 9:00 to 3:00 on Thursday, 10 March at Chelan PUD. Also, the 17 March meeting will be from 8:00 to 12:00 at the Wells Conference Room at Douglas PUD. The tentative agenda items for 10 March include the following:

- 9:00 to 11:00                      Project Development
- 11:00 to 12:00                    Review of *draft* Funding Policies
- 1:00 to 1:30                        Discussion of contract administration
- 1:30 to 2:30                        Preparation for March Forum
- 2:30 to 3:00                        Review of *draft* application form

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))



**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 10 March 2005**

**Members Present:** Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Members Absent:** Dale Bambrick (NOAA-F), David Morgan (USFWS)

**Others Present:** Bob Clubb (Douglas PUD), Tom Kahler (Douglas PUD), Dick Nason (Chelan PUD consultant), Sarah Walker (Chelan Conservation District), Russell Langshaw (Grant PUD), Mike Kaputa (Chelan County), Julie Pyper (Okanogan County, via telephone)

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1. Project Development—Background and Needs

Mike Kaputa, Julie Pyper, and Sarah Walker gave an overview of the efforts to develop and implement projects. The overall process can be broken into five components: restoration planning, project planning, project design, project implementation, and implementation monitoring. A large part of the process is spent on conceptual design, which often is problematic because funds are typically not available for this component. The other difficult component is regulatory compliance. Whenever there is a change in project design to secure a permit, an additional cost to the project sponsor is incurred. Because of these financial issues, there are few project sponsors in the Upper Columbia Region that have the resources to do “up-front” project development. Also, there is no infrastructure to track projects in the region at this time.

Project sponsors benefit if the funding sources give concrete guidance in the types of projects to be funded. When project sponsors are targeting restoration actions at specific habitat areas, it takes considerable time in landowner contacts to garner community support. At the county level, project development is often coordinated with local planning efforts, particularly the Shoreline Master Plans.

The three recommended that the Tributary Committees develop a means to increase coordination of the project sponsors, project reviewers, and those involved in permitting. Mike suggested that the Tributary Committees’ draft Funding Policies should describe the relation of the Tributary Fund to other funding agencies. He also stated that it would also be helpful to synchronize funding cycles with the other funding agencies. Julie said that the Tributary Fund should remain flexible, and be responsive to changing needs of the community. Sarah suggested that the key component is the award date, which is critical to the mobilization by the project sponsor. Last, project sponsors cannot apply for some grants, particularly from federal sources, because they cannot secure the matching funds. It would be helpful if the Tributary Fund could supply that match.

2. Project Development Discussion

At this time, the speakers exited and the Committees discussed the presentation.

Dennis said he would like to make matches available for projects funded by the SRFB and other sources. Bob Clubb said that it is important for the Tributary Committees to approve the individual project matches, and not just provide a blanket match. Chris said that the Tributary Committees can identify the types of projects that it will fund, then provide the match. Bob Bugert said that this was feasible, and suggested that the Committees can notify the SRFB it will fund matches for specified projects immediately after the RTT reviews. Although the Committees were not in full quorum, those present agreed on the benefits of providing matches to the Sixth Round SRFB grants, particularly since the timing of that funding cycle appears to match that of the Tributary Fund.

The group discussed the dilemma related to permitting and found no magic bullet. When convening project review meetings, the chair should actively solicit participation of the permitting staff.

3. Adopt 10 February meeting notes

The Tributary Committees adopted the previous meeting notes; the chair will provide them to Coordinating Committee chair.

4. Dry Year Water Lease

Bugert gave an update on the work to negotiate a dry year water lease with one or more irrigation districts in the region. The Washington Water Trust was willing to assist us in this effort. The irrigation districts are interested in the concept, but are not prepared to negotiate a lease during a drought year. It may be more straightforward to conduct this work after the watershed plans have been adopted. Bugert will keep the group posted.

5. Review the *Draft Funding Policies*

The Committees reviewed the 10 February *draft* Funding Policies document, and felt comfortable with the changes. The members agreed that it is essentially completed, and acknowledged the advantages of distributing it to the public during the March 29 Forum.

The group debated whether to hire an independent legal counsel to review the *draft* Funding Policies prior to adoption and release. Chelan and Douglas PUDs both had the document reviewed, and Dennis informed the group that the Attorney's General Office is conducting the review. Chris Fisher will have the Colville Legal Counsel review it as well. Russell suggested that a legal review of the contract document may be more important than the policies document. It may be appropriate to have that product reviewed, yet that review is not as time sensitive; Project Agreements will likely not be completed until early in 2006.

After some deliberations, the Committees agreed to distribute the document without outside legal review at this time. They will formally vote to adopt the document at the 17 March meeting.

6. Preparation for March Forum

The chair showed the *draft* Power Point presentation to the group for review and approval. The group should expect a half hour presentation by the chair, followed by an hour question/answer period for the Committees. The chair will have the following documents available for distribution at the forum (pending adoption):

- The adopted Operating Procedures
- The adopted Funding Policies
- The Guidelines for Funding Requests—General Salmon Habitat Program
- The Guidelines for Funding Requests—Small Projects Program
- The Pre-Proposal Form
- A “Frequently Asked Questions” document.

7. Review the Draft Guidelines for Funding Requests.

The chair distributed the *draft* Guidelines for Funding Requests and the *draft* Pre-proposal form. The group suggested modifications and agreed to further review the products for completion at the 17 March meeting. The group agreed on the need to encourage submissions of funding requests in electronic format. The chair will work with the two districts to develop an “interactive application” system for their web sites. They also suggested that a Post Office Box be established for the Tributary Fund.

8. Options for Contract Administration

The chair reported on his discussions with other funding entities on the costs for contract management. In general, the group should expect about 5% of the overall budget to be incurred for this aspect, depending on the scope of effort involved. Bob, Rick, and Keith described the districts’ expectations for contract management, both by the committees and the districts themselves. Bob Clubb said that it is necessary for each Committee to approve the invoices received. Dennis said that it would be best to have an individual review the invoices and make a recommendation to the Committees. Dick Nason said that the Committee could adopt a “consent agenda” to address several budget items simultaneously, which is similar to how the PUD commissions operate.

9. Next Steps

The next meeting of the Tributary Committees is set for 17 March, from 9:00 to 12:00 (NOTE TIME CHANGE) at the Douglas PUD Auditorium. The Committees will have two decisional items:

- Adoption of *draft* Funding Policies
- Adoption of *draft* Guidelines for Funding Requests

Bugert also advised the committees that the tentative dates for the project field tours will be 28 and 29 July.

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 17 March 2005**

**Members Present:** Dale Bambrick (NOAA-F), David Morgan (USFWS), Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Others Present:** Bob Clubb (Douglas PUD), Tom Kahler (Douglas PUD), Dick Nason (Chelan PUD consultant), Russell Langshaw (Grant PUD), Bob Rose (Yakama Nation)

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DECISIONS MADE:

1. The Committees adopted their Funding Policies for the 2005 funding year, which will be formally released at the Mid-Columbia Forum.
2. The Committees adopted the Guidelines for Project Proposals for the General Salmon Habitat Program, the Pre-Proposal Guidelines, and the Small Projects Application Form.

1. Review the *Draft* Funding Policies

The Committees reviewed the 10 February *draft* Funding Policies document, and made a few revisions to clarify several issues. All voted to adopt the policies, yet Dennis Beich stated that the Attorney's General Office will review the document prior to full adoption by Washington Department of Fish and Wildlife. The members acknowledged the advantages of distributing it to the public during the March 29 Forum, and affirmed that they may revise the document at a later time if necessary.

2. Review the Draft Guidelines for Funding Requests.

The chair distributed the *draft* Guidelines for Funding Requests, the *draft* Pre-Proposal Form, and the *draft* Small Projects Application. The Committees unanimously voted to adopt the documents, with minor changes. These documents will be available on the PUD web sites.

3. Next Steps

The next meeting of the Tributary Committees is tentatively set for 14 April, from 9:00 to 3:00 at Chelan PUD. However, this meeting may be cancelled if there are no compelling issues to be addressed at that time. The next regularly scheduled meeting would then be 12 May.

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 12 May 2005**

**Members Present:** Dale Bambrick (NOAA-F), Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), David Morgan (USFWS, via telephone), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Members Absent:** Bob Rose (Yakama Nation)

**Others Present:** Bob Clubb (Douglas PUD), Tom Kahler (Douglas PUD), Russell Langshaw (Grant PUD), Dick Nason (Chelan PUD consultant), Mark Miller (USFWS, via telephone)

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1. Agenda Review and Adoption

The Tributary Committees adopted the proposed agenda and added two items: 1) initial discussion of the two small project applications for Sand Canyon, and 2) the response of the State Auditor's Office to Chelan PUD regarding the Committees.

2. Sand Canyon Project

The group briefly discussed the first two applications to the Rock Island/Rocky Reach Committees, requesting funds for Sand Canyon, in Douglas County. Dale asked about the overall goals of the project. He asked if this fits into the overall management plan for the watershed. Dennis suggested that project has value for education purposes, since this area is widely viewed by the public. Chris Fisher acknowledged this, yet said that it could send the wrong message if this project does not have lasting value.

David asked about the status of work underway upstream of this proposed project site. He said the irrigation overflow issue needs to be addressed. Keith expressed similar concerns, yet also acknowledged Dennis point about the strategic location for education.

The group decided that they need more information about this project before making a decision. They asked Bob Bugert to set up a brief tour of the site with the sponsor; this will be done at 12:00 on 9 June. In addition, Bugert will ask the sponsor for additional detail from Douglas County on its long-term management plan for this area, and whether the county has other restoration projects proposed as part of a bigger package. The Committees will discuss the project applications further on 9 June.

Dale said the Committees should give general guidance to sponsors on the types of restoration projects the Committees will fund. The group agreed that the general guidance should be: 1) projects should fit into overall context for either the watershed or reach, 2) projects should address the causal mechanisms for habitat degradation, and 3) projects should be durable. These points should be stressed repeatedly to sponsors.

3. Project Permitting

David Morgan described the need of the USFWS to conduct assessments of the proposed projects to address any possible effects of the projects on listed species. After some research, he felt that the Section 10 permits probably would not work for this, and suggested that Section 7 consultations may be more appropriate. David said he explored the federal nexus on these projects; he suggested that FERC could be the appropriate federal link. He said that he had separate discussions with FERC however, and they are reluctant to be the responsible entity for these consultations.

David suggested that the PUDs may be the most appropriate entities to prepare Biological Assessments (BAs) for individual projects. Bob Clubb said the PUDs did not anticipate doing the BAs for the projects, and expected the project sponsors should be responsible, with technical assistance from the agencies.

Dale Bambrick said this is a fair assumption, and suggested that the long-term goal should be to develop programmatic permits. At this time, we do not know the scope and types of projects to be proposed, so it may be easier to carry out programmatic BAs after we have a firm handle on the types of projects we will fund. This may occur after the first funding cycle. Also, after the recovery plan is completed, we will have a better understanding of the types of projects to be funded by the Tributary Committees.

Dennis Beich suggested that many of these larger projects will be phased, and that the funds provided during the first phase would enable development of BAs. Keith Truscott said that Chelan PUD is considering hiring an individual who will work on project development (discussed in Section 5 below). This person may assist the project sponsor with development of permits, but will not take the lead on this role, unless the PUD is the actual project sponsor.

Dale said that if a project appears to be deleterious, it would trigger consultation. However, since the objective of these projects is to benefit fish, NMFS will likely not ask for consultation. David concurred, but said that fish projects may affect other listed species that USFWS administers, such as Bald Eagles. His agency will be mindful of that concern.

The group agreed that it is in our long-term best interest to secure a programmatic permit, but it is difficult to assess the types of projects that will be submitted, and the cumulative affect of these actions on the listed species. Given this dilemma, we should seek single-action permits at this time, and require the project sponsors to be the responsible entity. Also, we should advise sponsors during project development on how to implement the project in ways that minimize the risk to listed species.

4. Review of the *Draft Landowner Agreement Form*

The Committees discussed the *draft* forms for project sponsors to provide us assurance of consent and indemnification for projects funded by the Committees and conducted on

private property. At this time, the legal advice the Committees have received for the landowner Agreement Forms is as follows:

The “short form” probably is enough for just the authorization to apply for funding. The Tributary Committees should add a legal description and require that all property owners sign, not just one (i.e., husband and wife - both sign; partnership, all partners sign unless a limited partnership; etc.)

For the actual construction on and use of the land, the Committees will need more details and should have a damage release. However, if someone is injured due to negligence in designing or constructing the project, the Committees (or PUD) may be liable and can't really have the landowner release that liability. The landowner can release damages that he/she may incur. The agreement should address maintenance; consent to come on to the land to maintain, an easement for the project, and other mutual understandings of what is expected of the parties.

Keith said that Chelan PUD will have the forms undergo formal legal review, and should be able to have this completed in time for the pre-project submission date (30 June).

#### 5 Project Coordination/Management

Keith Truscott said that Chelan PUD will hire a three-year temporary position subject to extension, to assist sponsors in development of projects. The PUD will have this person work in the three-county area. Keith stressed that this would be a Chelan PUD employee who would work on many tasks for the district, and when this person works on issues related to the Tributary Committees, he or she will receive guidance from the Committees and Chairperson. Billable hours associated with time allocated to the Tributary Committees actions will be reimbursed accordingly from funds of the three separate administrative accounts associated with the HCPs. Bob Clubb said that Douglas PUD could support this effort if the other Committee members agreed, because there is no need for a full time person at this time. Keith would like to hire an individual by July.

Dennis asked about the scope of work for this individual, and requested that the person assist in development of projects funded by Grant PUD. There would be a need to set up a mechanism to reimburse the individual accordingly. Dennis said this person should work directly with the Tributary Committees and the members should be apprised in the selection of the individual. Keith concurred, yet stressed that this would be a Chelan PUD employee. Keith agreed to share the scope of work with the Committees and to keep the group informed of the hiring process.

#### 6. Status of projects being developed

Bob Bugert gave a brief synopsis of projects being developed in the Upper Columbia Region. Ten project proposals were submitted to the National Fish and Wildlife Foundation under the Community Salmon Fund—some of which will request matching funds from the Committees. Additionally, Bob knew of at least a dozen project applications that are currently being developed and may be submitted to the Committees, although there may be more that he is not aware of.

Dale mentioned that the Pollution Control Hearings Board made its determination on Methow Valley Irrigation District. The Board ruled that MVID must reduce water use to 11 cfs for the West Side diversion, down from the historical 30 cfs use. He said that MVID may solicit funds from the Tributary Committees. Chris Fisher said that the Okanagan Band is considering reconnecting some side channels in the Okanagan River at the reach with vertical drop structures. They will likely submit an application.

Bob Bugert also briefed the group about some proposed assessments. There will be a flood hazard study done in the Methow, with some potential to modify the scope of the study to identify habitat projects. Also, the previous channel migration study in the Wenatchee will likely be expanded to get additional information on Nason, Icicle, and Peshastin creeks. There is a proposed channel assessment for the Okanagan/Similkameen confluence. Dale asked Bob to contact Greg Knott about partnering with channel migration for Methow, and Mike Kaputa about channel migration for Wenatchee.

7. Matching funds with Salmon Recovery Funding Board (SRFB)

Bob Bugert said he gave a presentation to the SRFB on 15 April. The SRFB was supportive and committed to partner with the Tributary Fund, and directed SRFB staff to assist in coordination between the two funding entities. In addition, the SRFB assured Bugert that the availability of these funds would not affect the allocation of SRFB funds to the Upper Columbia Region.

Bugert said that the SRFB executive director expressed a concern about the capability of the SRFB to provide matching dollars for projects funded by the Tributary Fund, since the latter is considered as mitigation. At this time, SRFB policies may not allow matches with mitigation fund sources. The SRFB director will research this issue, and assured Bugert that the SRFB could modify its policies to allow matches with the Tributary Fund, if necessary.

8. Attorney's General Review of Policies and Procedures Document

Dennis Beich said the ATG reviewed the Committees' "Funding Policies and Procedures" document, and had general questions regarding the status of the Committees. For example, does the Tributary Committee exist as a legal body, or does the body exist in an advisory capacity to the PUDs on distribution of the funds? The Committees felt that their documents—and Settlement Agreements as well—provide the necessary information on the status of the Committees, and that no action should be taken at this time. Dennis agreed, and stressed that the deliberations of the ATG on these issues should not hold up the activities of the Committees, but that the ATG will further explore this and report back to the Committees by way of WDFW.

9. State Auditor Review of Tributary Committees' Activities

Keith distributed copies of a formal response from the State Auditor's Office to Chelan PUD. Although it does not represent a legal opinion from the SAO, it does formally record their interpretation of the roles and responsibilities of the Tributary Committees. In short, it is the opinion of the SAO that the Committees are not subject to the Open



Meetings Act, that work funded by the Committees are to be considered “Public Work” and managed accordingly, and that the districts may charge the Committees for services provided to the Tributary Fund.

10. Next Steps

The next meeting will be on 9 June (9:00 to 12:00) at the Douglas County Transportation and Land Services Building (140 19th St NW, East Wenatchee). There will be a brief tour of the proposed Sand Canyon project site from 12:00 to 1:00. Also, the Tributary Fund and the SRFB will jointly sponsor a project development workshop in Chelan on 22 June. Detailed agendas for both meetings are being developed.

Notes taken by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 9 June 2005

**Members Present:** Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Members Absent:** Dale Bambrick (NOAA-F), David Morgan (USFWS), Bob Rose (Yakama Nation)

**Others Present:** Russell Langshaw (Grant PUD), Dick Nason (Chelan PUD consultant), Chris Parsons (WDFW)

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1. Agenda Review and Adoption

The Tributary Committees adopted the proposed agenda and added three items: 1) Dennis wished to discuss the Rocky Reach Settlement and potential link to the Chelan PUD HCP, 2) Rick wanted to give an update on Okanogan Habitat Assessment work in British Columbia, and 3) Bob asked for direction on a couple pending project applications.

2. Review and adopt 12 May meeting notes

The group adopted the 12 May meeting notes, with previous revisions provided by the members. Referring to the language in the notes regarding the authority of the Salmon Recovery Funding Board (SRFB) to provide matches to the Tributary Fund, Dennis said that he has learned of other funding organizations that do not provide matches with mitigation dollars, and this may affect the Tributary Fund. After some discussion, the group directed Bugert to provide language for the Committees' Operating Procedures which clarify the intent of the HCP Plan Species Accounts. It may be easier to resolve this potential issue on our end, rather than getting others to adjust on their end.

3. Sand Canyon Project Proposal

The group briefly toured lower Sand Canyon Creek and discussed the two small projects applications for that stream. Since the Committees did not have a quorum, they could not take action on these applications. Also, the group noted that the sponsor is seeking matches from the Upper Columbia Community Salmon Fund (CSF), and decided to coordinate with them on their intent to fund. Bob will discuss this with CSF, then set up a teleconference call to reach a decision on these applications prior to the Committees' next meeting, set for 14 July.

4. Project Coordinator Position

Keith Truscott said that Chelan PUD moved forward with the recruitment phase for the Project Coordinator position and awarded the position to Julie Pyper, Water Resources Director for Okanogan County. The group expressed approval at the selection. Keith said

he expects that Julie will be available in time for the 13 July project review workshop. Dennis said that Julie will be an asset to the process. However, he stated that it would have been more appropriate for Chelan PUD to involve the other Committee members in the selection decision. He felt that at least one of the Committee members should have been part of the interview process, since the position will often be conducting Committee business. He stated that this sets a difficult precedent for Committee decision-making.

The Committees discussed Julie's role in management of the contracts, her support of project sponsors, the assistance she would provide in permit development, and how to handle her billable hours related to the various plan species accounts. Dennis asked whether Chelan PUD has had discussions about the inclusion of Grant PUD into supporting this effort. Russell responded that this was possible and said he and Keith will begin those discussions, now that the position is in place.

Dennis expressed two concerns: 1) the need to address the bottleneck related to permit processing, rather than permit development; and 2) the potential overlap of this new position with current and pending positions, such as the WDFW Watershed Steward, the Chelan County positions, and a couple consulting groups who support project sponsors. Bugert suggested that the Committees convene these individuals to coordinate on the development of projects and concomitant permit applications. This will likely be done in late July. Also, the Committees will co-sponsor the project application and permitting workshop on 22 June (discussed below).

#### 5. Contract Management and Landowner Agreement Form

Keith distributed the *draft* Landowner/Sponsor agreement and a flow chart for management of contracts. The flow chart describes the decision-making process for projects carried out on public-owned land, privately-owned land, or PUD-owned land (or projects sponsored by the PUD).

Keith said that the Committees will probably need to give Bob permission to be the delegated signatory for authorization of contracts. Keith also said that the agreement package will include the landowner agreement form—if the work is on privately-owned land. For projects on public-owned land, the agreement form and contract would follow the language typically used by that public entity. For some of these potential actions, the precedence has been set, so that the approach should be straightforward. However, Keith said the PUD was not aware of any precedent set for habitat actions on private land, so this needs further research. Russell inquired how we will accommodate the legal protection of landowners in these contracts. Keith suggested that the Committee hire a local attorney to draft language to address this issue. The group agreed and directed Bob to identify this as a decision item for 14 July.

The Committees discussed in considerable detail their intent to influence—or perhaps stipulate—which contractors would be used by project sponsors. They did not have a clear understanding on the legal authority on this issue, and decided that this may require some legal research as well.

The Committees agreed to provide comments to the draft Landowner/Sponsor agreement to Keith by 30 June. This will help Chelan PUD modify the agreement and allow for further discussion and a potential decision at the 14 July meeting.

6. Potential Okanagan Projects

Rick said that Douglas PUD is working with several entities in British Columbia on Douglas PUD's sockeye program. These groups identified projects to restore habitat for Okanagan Sockeye. There may be some proposals to remove some dike and vertical drop structures upstream of Oliver. He expects some project sponsors will submit one or more applications for this work.

7. Rocky Reach Relicensing

Dennis provided an update on the negotiations related to the Rocky Reach Settlement Agreement. The parties have proposed four forums: wildlife, recreation, fish, and cultural resources. For the proposed fish forum, there will be a technical and policy committee; the latter could be combined with the Policy Committee for the HCP. The Settlement may have BLM, USFS, CRITFC, Ecology, and perhaps others in the Policy Forum. Dennis expressed concerns about how these additional entities would affect the decision-making process of the HCP committees. Dennis said the facilitator of those negotiations will contact Mike Schiewe to coordinate.

8. Committees' Policy on Specific Applications

Bob asked for direction on a Bureau of Reclamation (BOR) proposal for conversion of surface diversion to wells on the Entiat River. The sponsor wishes to submit five separate small project applications, rather than one package. Noting their lack of quorum, the Committees directed Bob to work with the sponsor to submit separate applications through the pre-proposal process. Then the Committees can evaluate the request and develop an appropriate response with a full quorum.

Bob then asked for direction on a request for expedited funding. A project sponsor received funds from several sources to correct the passage problem at Fulton Dam, and was to begin work this September. To meet permit requirements, the project's overall cost increased from roughly \$700,000 (which the sponsor secured) to about \$840,000. Noting that the Tributary Committees do not award funds until January (after the work window), the sponsor asked the Committees to fund this difference on an expedited process. Bugert told the sponsor that this is against the Committees' policies, yet would ask for a policy from the group. After some deliberation, the Committees directed Bob to inform the sponsor to submit a pre-proposal application. Pending the review by the Regional Technical Team in July, the Committees can deliberate on the validity of the request, and may provide the sponsor a notice of intent to fund. This could provide sufficient assurance to allow the sponsor to begin work in September.

9. Stream Channel Studies

Bob said that BOR contacted him about coordinating efforts to fund projects in the region. Noting that the Tributary Committees are not required to record "credit" for habitat actions, the BOR suggested that it may be mutually beneficial for the Tributary

Fund and the BOR cost share projects, whereby the BOR would fund those actions that provide credit under their current Biological Opinion. A specific example would be the funding of stream channel studies, which contribute to project development, but do not provide credit to BOR. The group noted that under certain conditions, there may be advantages to this arrangement, if the Tributary Committee is not committed in any way. However, it is difficult to properly assess this proposal, given the unsettled nature of the FCRPS BiOp. The group directed Bugert to ask a BOR representative to attend the 14 July meeting to get a better understanding of the Bureau's mandate under the current judicial order.

10. Project Application and Permitting Workshop

Bugert reminded the group that the Tributary Fund and the SRFB are co-sponsoring a workshop on 22 June. He asked that the Committee members support Bob's request to have agency representatives there to answer questions related to project permitting.

11. Next Steps

- 22 June: Project application and permitting workshop (10:00 to 1:00 at Campbell's in Chelan)
  
- 13 July: Pre-proposal reviews by RTT (9:00 to 3:00 at Chelan Fire Station)
  
- 14 July: Regularly-scheduled Tributary Committees (9:00 to 3:00 at Douglas PUD). The tentative agenda items will be 1) response to the pre-proposal applications, 2) the draft landowner agreement form, 3) discussions on means to coordinate with the Bureau of Reclamation, and 4) pending decisions on applications to the small projects program.

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 14 July 2005

**Members Present:** Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Rick Klinge (Douglas PUD), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

**Members Absent:** Dale Bambrick (NOAA-F), David Morgan (USFWS)

**Others Present:** Russell Langshaw (Grant PUD), Tom Kahler (Douglas PUD), Julie Pyper (HCP Project Coordinator)

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**Decision Items:** The Rock Island and Rocky Reach Committees decided not to fund the two small project proposals for Sand Canyon.

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**Notes:**

1. Welcome and review agenda

The Committees reviewed the proposed agenda and chose to eliminate the decision item on the local legal review of the contract (see item 5 below) and added two items: the SRFB response to mitigation funds (item 8), and preparation for the upcoming meeting with the Bureau of Reclamation (item 11).

2. Review and adopt 9 June meeting notes

The Committees adopted the 9 June meeting notes, with the revisions suggested by Dennis and Rick.

3. Discuss the roles and duties of HCP Project Coordinator

Prior to Julie Pyper's arrival at the meeting, the Committees discussed the overall approach for her role as project coordinator. Bob Bugert said that Julie has initially conducted duties based on input from Keith and Bob, yet needs some general direction from the committees. Chris said that it is important for Julie to be the ear for the committees, but not the spokesperson for the group. He felt that she should work specifically with project sponsors, and help in project permitting for the sponsors. Bob Rose concurred, stating that she should not dedicate much time to attending planning unit meetings or other on-going functions.

Dennis asked for clarification on whether Julie is representing the Committees or the PUD. Keith said that she represents the Committees. She is not working full time for the Committees however; she will also be working on environmental compliance work for Chelan PUD. Her priority work is HCP project coordination, rather than Chelan PUD.

The Committees agreed that Julie should focus on technical, permitting, and contractual support to individual project sponsors. She could be very useful in development of programmatic permits. Another priority is the on-the-ground monitoring of projects to make sure they are implemented properly. She should also focus on landowner agreements, and when appropriate, coordinate with the monitoring efforts within the region.

Bob Rose suggested that the Tributary Committees direct their funds to priority areas, and to have Julie and others dedicate work to project development in those areas. This would be based on a strategic approach for distribution of funds in the region. Keith responded that, at this time, the Biological Strategy developed by the RTT is an appropriate means to set priorities. Dennis concurred, stating that the process is established. He sees that Mark Cookson, the WDFW Watershed Steward, will be re-focusing his efforts on project coordination at the request of sponsors. To complement Mark's effort, Julie should focus on the more complex projects that are multi-jurisdictional and may involve multiple funding sources. She would work on projects at the direction of the committees, rather than the sponsors. Bob Rose concurred, saying that there will be several individuals representing different entities working on project development, and that we should get them to coordinate and to complement each other.

Dennis suggested that the Committees discuss engineering oversight of projects, as this will become increasingly important and need coordination. This will be discussed at the August meeting.

Julie then entered the meeting, and the group discussed her position duties and expectations. She distributed a single page briefing sheet of her activities to date; the Committees said they would like her to produce this monthly, prior to each meeting. She will give an oral update at the monthly meetings. Julie also distributed a draft brochure for comment by the Committees. The group will review the draft and provide comments at the August meeting.

4. Proxy voting procedures

The Committees reviewed the Operating Procedures to ensure that the proxy voting procedure meets their needs, now that decisions on projects are being made. Specifically, the Committees reviewed the procedure for voting via telephone prior to the meeting, and agreed that at this time, it is an appropriate means to vote on minor issues. They will review the appropriateness of this procedure at a later date. The Committees felt that the chair should work with individual members who cannot attend to make sure that the needs of both the individuals and the group as a whole are met.

5. Delegation of authority to Chairperson

The Committees reviewed the draft document that delegates authority to Bob Bugert as a signatory agent on behalf of the three Tributary Committees. Bob Rose said he may not have the authority to sign the delegation on behalf of the Yakama Nation, but will explore this issue within his organization and report back to the group. The Committees agreed to postpone this vote until 11 August.

Dennis noted that there is still some uncertainty related to the Attorney's General Office regarding the ownership of the funds. Bob Bugert said that Dale mentioned this as a similar issue for the NMFS legal counsel. The Committees agreed that they should proceed with their work while the legal review occurs separately.

6. Contract management and landowner agreement forms

Keith reminded the committee that Chelan PUD is working on the draft contracts and landowner agreement forms. The group directed Julie to continue work on these forms; committee members should direct comments to her.

7. Local legal review of contract

Keith said that the Chelan PUD's legal counsel advised that it is not in the best interest of the Tributary Committees to develop a template legal contract for project sponsors. It would be more effective for the contractor to develop a site-specific agreement for each project. The Committees

agreed that this is an appropriate interim approach that may be reviewed after this first funding cycle is completed.

8. SRFB discussions about use of mitigation funds

Bugert reported on the deliberations of the Salmon Recovery Funding Board (SRFB) to allow the use of mitigation payments from a required fund as all or part of a required matching share *if the money has been passed to an otherwise eligible applicant*. At their 18 July meeting, the SRFB will discuss whether eligible applicants be allowed to use mitigation funds from a third party as a matching share, as long as SRFB funds are not used to replace any part of the mitigation fund or payment. This proposed change in SRFB policy is in response to the Tributary Committees' chair's briefing to them. This action, if adopted, will ensure the ability of both funding sources to cost-share projects.

9. Sand Canyon small project proposals

The Rocky Reach and Rock Island Committees reviewed the two applications for small project funding for Sand Canyon: one for trash clean-up and the other for reconstruction engineering and design.

Committee Comments:

- The likelihood of having a marked increase in production of salmon from these projects in this area is pretty low. Support for the clean-up proposal is lacking. There is somewhat of a supportive sense of conducting some design work to develop an overall approach. This was also countered with the caution that the cost of engineering a meandering channel may be quite high.

- This project is more for the public relations benefit, rather than the fish benefits. Douglas County has been an important player in salmon recovery. Noting that the engineering costs may be high, an alternative approach would be for the applicant to submit a phase 1 application through the General Salmon Habitat Fund. There was a lack of support for the trash clean-up proposal.

- There are other sources of support for the clean-up, support is lacking for that proposal. There was concern about the notion of asking for Phase 1 application for the engineering proposal. From reading the application, one could infer that the sponsor does not have the support from the major players in the long-term plan for this area.

- It was noted that the individual who submitted these applications no longer works for Douglas County. This may lessen the likelihood that the sponsor will have an individual to take the lead on implementing these projects, if funded.

Action Item: The Rocky Reach and Rock Island Committees decided to deny the request for funding to conduct the trash clean-up on Sand Canyon. The group recommends other funding sources and programs that address litter clean-up, such as the Ecology Youth Corps.

Action Item: The Rocky Reach and Rock Island Committees decided to deny the request for funding to conduct the engineering design. They have concerns about the uncertainties related to long-term management of the area, the level of support by other managing entities, and the longevity of the project.

The Committees directed Julie to look at the Subbasin and Watershed plans to determine the types of projects that are available in Douglas County.



10. Review of project application workshop

Bob Bugert gave an update on the project application workshop jointly sponsored with the SRFB. He noted the discussion at the workshop on the need to expedite and improve the permitting process. The Committees had considerable discussion about the need to streamline and improve the process, and saw two different avenues for “programmatic” permitting: one would address a particular type of project (such as instream structures), and one would address a focal area where we knew that intensive work would be conducted over an extended time period (such as lower Entiat). Dennis suggested that the Committees consider funding a consultant to work with the permitting agencies specifically on streamlining the permitting process. The Committees did not, at this time, endorse such a proposal and instead, directed Bugert and Pyper to investigate potential avenues for facilitating a streamlining of the permitting process as their time allows.

11. Meeting with Bureau of Reclamation

Bob Bugert reported to the Committee that the BOR requested a meeting to discuss the relation of their BiOp actions in the Upper Columbia and the actions of the Tributary Committees. A distinction was made between the specific funding request by the BOR from the General Salmon Habitat Program, and the interest of the BOR in establishing some sort of “partnership” with the Tributary Committees. This distinction is important because it is the differentiation between the BOR’s representative discussing a partnership proposal directly to the Committees and a potential sponsor of a General Salmon Habitat project making a presentation directly to the Committees. Joe Spinazola has confirmed that he will attend the August meeting to describe what activities and projects the BOR is authorized to fund, and not. The group will set aside two hours. This prompted considerable discussion about the need for assessments in specific areas that identify the projects to be developed in those areas.

12. Review the General Project pre-proposals

The Committees reviewed the 26 project pre-proposals received to date (and reviewed by the Regional Technical Team). Pending discussions and concurrence with Dale Bambrick, the Committees asked the chair to recommend to the following project sponsors that they not submit a proposal for funding.

- a) Okanogan County Weed Control Board: While this is a laudable approach, there are other sources of funds rather than Tributary Fund to address invasive species. The sponsor should request funding from USDA: visit [www.gov.grants](http://www.gov.grants) to get information on appropriate funding sources.
- b) White River Bridge and Wetland: The Committees recommend that the applicant remove the proposal for the bridge, because of cost/benefit concerns and the uncertainty regarding benefits to salmon. For alternative funding, consider NRCS and other sources that address wetlands.
- c) White River Boat Launch: Benefits to salmon are minimal, suggest other funding sources.
- d) Pollution Monitoring: Benefits to salmon are minimal; suggest other funding sources.
- e) Sunitsch Canyon: Project to support brook trout is not compatible with salmon recovery.
- f) Web-based Project Management: Premature at this time.

The Committees reviewed the pre-proposal for Spring Creek Ranch, and decided they would look more favorably if the sponsor sought cost share for piping and power. In general, more

information is needed on this project. The Committees directed Julie to assemble a meeting of individuals to coordinate on project development.

13. Next steps

The Tributary Committees will sponsor a tour of proposed projects on 28 and 29 July. The next regularly scheduled meeting will be 11 August (9:00 to 3:00) at Chelan PUD. The primary agenda items will include:

- Bureau of Reclamation's actions under the BiOp
- Delegation of authority for chairperson
- Duties for chairperson
- Update from project coordinator
- Review of small project proposals
- Permitting issues
- Engineering oversight of projects

Meeting notes by Bob Bugert ([Bob.Bugert@charter.net](mailto:Bob.Bugert@charter.net))

Dale said the attorneys to NOAA-Fisheries want to indemnify the Committees to liabilities related to acquisition of properties, injuries on the work site, and other legal responsibilities. Bob said that there would have to be a compelling reason for the PUDs not to own the properties acquired with the Plan Species Accounts, and so would assume the liability of those owned assets.

Keith Truscott said that a conference call is scheduled among the legal representatives to the parties on 17 August. There will likely be more work required beyond this call. The group expressed concern that this issue may not be resolved in the time frame for awarding contracts this funding cycle.

5. Need for minimum standards in contracts with project sponsors

Tom Kahler said the Committees should be aware of the contracting documents that the project sponsors would use with subcontractors. It is in the best interest of the Committees that the project sponsor has adequate terms and conditions with their individual contractors. Noting that they may not have control over subcontracts, the Committees agreed that their contract with the project sponsor should have clearly-defined performance standards, which in combination with reimbursable payments, will ensure the Committees have adequate control over the implementation of projects. Bob Clubb said that the Committees can establish a “boilerplate contract” that would provide the appropriate terms for the Committees, the project sponsors, and ultimately to their subcontractors.

Bob Rose expressed an interest in the Committees’ capability to develop a “small works roster” of contractors available to conduct assessments or actual project implementation. This would give the Committees more flexibility and assurance in securing qualified contractors. Bob Clubb said it is possible to have contracts for engineering and architectural services, but would have to go out for bid for for other services at this time. Julie will be available to work with contracting specialists on this approach when the Committees get clarification until the legal representatives resolve the issue regarding ownership of the Plan Species Account.

6. Update from HCP Environmental Project Coordinator

Julie Pyper handed out a packet that covered her activities in the past month, which outlined the project tours; attendance at meetings; review of watershed and subbasin plans pertinent to Douglas County; an information brochure; sponsor agreement form; and meetings. In addition, she asked for direction on several issues. Below are decisions made by the Committee on activities she should focus on in the upcoming month:

- The Committees directed Julie to continue the review of the Douglas county plans, and to recommend an appropriate course of action for habitat work in Douglas County.
- Julie requested guidance on the draft project sponsor agreement that she has been working on. She gathered information from sponsor agreements that other funding organizations have. The Committees felt that it is highly likely that sponsor agreements will be quite varied, depending on the work to be conducted. They directed Julie to prepare a generic agreement, but we should be prepared to have case-by-case agreements if necessary, based on the general language. The Committees will review the draft agreement, and will be prepared to discuss this in detail at the September meeting.
- Julie gave an update on the Belsby application. At this time the project sponsor has decided not to apply to the SRFB, and is undecided whether to submit an application to

the Tributary Fund. The Committees asked her to assist in coordinating those involved in this project.

- Julie requested input on the draft brochure; the group agreed to provide comments to Julie by 19 August.
- Julie got approval to have business cards printed.
- Julie will draft a mission statement, which will be incorporated into the Operating Procedures and reviewed in September.
- Julie researched web-based project management versus project information. She suggested that the Committees defer action on this until we receive clarification on ownership of the Tributary Fund assets. The group concurred.

7. Delegation of authority to Chairperson

The Committees agreed that this decision should be deferred pending the resolution of the ownership of the assets. Noting that many of the issues related to ownership of the assets center on liability, Bob Bugert asked that the Committees get a legal review of this authorization for him.

8. DECISION ITEM: Funding of the Weed Coalition's small project proposal

The Rocky Reach and Rock Island HCP Tributary Committees reviewed the small project proposal *Salmon-Friendly Weed and Park Management Alternatives*, submitted by the Chelan-Douglas Citizen's Weed Coalition. They unanimously agreed not to fund this project because it would not have durable benefits and the approach is not consistent with the purposes of the Tributary Fund. They directed the Chair to advise the project sponsor of this decision.

9. Belsby, Gagnon, and McDevitt small project proposals

Bob Bugert reminded the Committees that decisions on three small project proposals are pending, and recommended that these be considered at the September meeting. Bob suggested that the Committees meet in Leavenworth, enabling them to look at the McDevitt site. The group directed him to invite Steve Kolk to the tour to explain the McDevitt and Gagnon proposals. The Committees asked Julie to continue research on the Belsby small project proposal and be prepared to answer questions by them at the September meeting.

Tom Kahler and David Morgan expressed concern that the small project proposals do not have sufficient information; often additional research on the proposals is required. In the long run, it may be necessary to revise the application form, or to directly request information from a sponsor after the proposal is received. The Committees asked Bob and Julie to develop recommendations. Also, the Committees said that it is not convenient to be notified that these proposals are on their ftp site; they prefer to have the proposals directly emailed to them with a notice of pending decision.

10. Bureau of Reclamation's actions under the BiOp

Joe Spinazola, Steve Kolk, and Greg Knott of the Bureau of Reclamation were invited to discuss the relation of their BiOp to the Tributary Fund. Joe is a manager with Reclamation's FRCPS Biological Opinion and the subbasin Habitat Program. Reclamation operates 19 hydro projects that are covered under the BiOp, which does not include several major projects, including Grande Coulee and the Yakima program.

Under their 2000 BiOp, the Action Agencies had 199 Reasonable and Prudent Alternatives intended to result in no jeopardy. Among other changes, the 2004 BiOp mandated more certainty by identifying specific limiting factors in their Tributary Habitat Program. The Action Agencies are to address instream flows, entrainment, channel access, channel complexity, and riparian zone protection and enhancement. This is under the stipulation to work with willing landowners on private land and in compliance with state laws. Reclamation's Tributary Habitat Program works in nine subbasins, including the Methow, Entiat, and Wenatchee.

Under the BiOp, their tributary metrics for three years and six years, respectively, are as follows:

- Instream flow: 12 and 40 cfs
- Screens upgrades: 5 and 10 total
- Stream channel accessed: 60 and 105 miles
- Stream channel complexity restored: 5 and 10 miles
- Riparian habitat protected: 4 and 12 miles
- Riparian enhanced: 6 and 12 miles

Reclamation is authorized to provide technical assistance (project marketing and initiation, engineering designs, environmental compliance, development of permits, construction inspection). However, they are not authorized to participate in riparian protection projects or pay for construction. They are working to get legislative authority for construction. To accomplish these objectives, Reclamation intends to collaborate with other entities, primarily BPA, who fund construction after the technical assistance is provided. Reclamation proposes a similar collaborative arrangement with the Tributary Fund.

Joe suggested several opportunities for collaboration with the Tributary Committees:

- Logistical support for project sponsorship and project management.
- Subbasin studies, specifically water supply and distribution.
- Biological assessments, inventories of screens and barriers.
- Geomorphic studies that lead to reach-appropriate projects.

After the presentation, the Committees dismissed the Reclamation representatives, allowing a discussion of the overall approach for collaboration. In particular, the Committees discussed the potential to fund some aspects of the Methow In-Channel Habitat Restoration Plan and the proposed channel assessments in Nason, Peshastin, and lower Icicle creeks.

The Committees chose to explore two options: 1) look at the full suite of assessments that are proposed or pending, and to identify a strategy for funding specific assessments in key areas or topics, and 2) identify discrete components of the existing assessments that the Committees could fund on a contract that is separate from the overall scope of work. Dennis suggested that the Committees evaluate funding parts of these assessments during the overall review of projects later this fall and winter. Dale concurred, but stipulated that we may want to see if there are discrete packets available—we may want to act on them now. The group asked Bob and Julie to identify separate components that may be fundable at this time.

The Committees discussed the concept of stipulating to Reclamation (or other funding programs that are required to meet habitat metrics, for that matter) that the Committees will cost-share on a project only if the credit is allocated commensurate with the percentage of funding provided by Reclamation. In other words, if Reclamation and the Tributary Fund each pays for half of a project to restore 2 cfs to a stream, Reclamation should receive credit for 1 rather than 2 cfs.

11. Next steps

The next meeting is 13 September (9:00 to 3:00), changed from the regularly-scheduled date of 8 September. The meeting will be at the Chelan PUD office in Leavenworth. The group will briefly tour the McDevitt Project. The tentative agenda items will include:

- Review of the three small project proposals
- Recommendations to the small project application form
- Review of the Operating Procedures, with mission statement
- Engineering Oversight
- Duties of Chairperson
- Procedures for reviewing projects in October through January
- Assessments

The Committees directed Bob to work with the Regional Technical Team to arrange for members of the Committees to sit in on the RTT review of the Tributary Fund proposals on 12 October RTT. On 13 October, the Tributary Committees tentatively plan to review the proposals and to identify those that will not be funded. Tentatively, the Tributary Committees will then invite the remaining project sponsors to present their proposals on 9 and 10 November. The group asked Bob and Julie to put together a detailed approach for this process, and to provide recommendations in September.

Meeting notes by Bob Bugert ([BobBugert@nwi](mailto:BobBugert@nwi))

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 13 September 2005

Members Present: Dale Bambrick (NOAA-F), Chris Parsons (alternate for Dennis Beich, WDFW), Chris Fisher (Colville Tribes), Tom Kahler (Douglas PUD), David Morgan (USFWS), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

Others Present: Julie Pyper (HCP Project Coordinator), Steve Kolk (BOR)

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Decision Items: The Tributary Committees revised their Operating Procedures to reflect the changing membership and included a Mission Statement.

The Rock Island Tributary Committee unanimously agreed to fund two small project proposals, McDevitt and Gagnon, for \$7,016 and \$12,694, respectively.

All three Tributary Committees agreed not to fund the Belsby small project application as proposed.

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1. Review of proposed agenda

The Committees reviewed and adopted the proposed agenda.

2. Review of past meeting notes

The Committees reviewed and adopted the 11 August meeting notes, with revisions provided by Tom Kahler and Keith Truscott.

3. Duties of chairperson for 2006

The group reviewed and adopted the revised scope of work for the chairperson. The notable changes from the 2005 duties include increasing coordination with other funding entities and developing alternative means to accomplish key Committee objectives.

4. Review of Operating Procedures, with Mission Statement

The Committees reviewed the revised *draft* Operating Procedures that reflected the changing membership of the Committees. They also reviewed the verbiage on decision-making, and are comfortable with the language as is. As directed by the Committees, Julie Pyper drafted and distributed several examples of a Mission Statement for the Tributary Committees, which would be included in the Operating Procedures. The Committees adopted the following statement: “*To fund and support sustainable long-term, cost-effective projects that protect and restore Plan Species habitats and to foster partnerships with those that implement such projects.*” This statement will also be included in the Policies and Procedures document, the annual report to FERC, and other publications.

5 Update on discussions related to ownership of Plan Species Accounts

The Committees briefly discussed the status of the legal deliberations over the ownership of the Plan Species Accounts. Members were not aware of any developments since the 17 August conference call of the legal advisors. The Committees asked Chris Parsons and Dale Bambrick to inquire of their legal counsels the status of those deliberations and to report back to the group. Noting that project sponsor agreements need to be developed for two approved small projects (refer to item 8), the Committees decided to operate in the interim as if the funds were owned by the Committees rather than the PUDs. They will continue to operate in this manner until the ownership issue is resolved.

6. Update from HCP Environmental Project Coordinator

Julie Pyper distributed her monthly report of activities to the Committees, described below:

- Julie gave a summary report on the types and priorities for habitat projects in Douglas County, based on the watershed, subbasin, and recovery plans. The Committees said that this work is accomplished and that she should not allocate more time to it.
- Julie discussed the status of the draft sponsor agreement. She did not receive comments to the recent draft, but she noted that comments are not necessary at this time because the issue related to ownership of the Plan Species Account is still unresolved.
- Julie suggested—and the Committees concurred—that the agreements related to land acquisition or easements have a high degree of flexibility to address stewardship plans for each parcel identified for protection. Bob Rose said that many of the aspects of the stewardship plans should be identified in the project proposal, so that the Committees have a good indication of what they will be funding. Julie will continue research on the types of items needed in this agreement.
- Julie distributed a flow chart that displays a hypothetical relation of implementation and effectiveness monitoring efforts for projects funded by the Tributary Committees—and how these efforts relate to the assessment funds available through the Settlement Agreements. The Committees agreed that the monitoring language in the project sponsor agreements should focus on implementation, and that it should be consistent with any effectiveness monitoring underway. However, the Committees were concerned about placing unnecessary burden on project sponsors for long-term monitoring, as well as the cost burden to the Plan Species Accounts. The group agreed that an operation and maintenance agreement be a part of the sponsor agreement, which would include implementation monitoring, and that there is a right by the Committees (or their delegates) to review the projects for effectiveness for an agreed time frame after the project is completed.
- The draft brochure for the Tributary Fund has been reviewed and is now ready for completion. Julie asked that the Committees provide “last minute” comments by 23 September. However, she suggested that the brochure not be distributed until after the applications for this funding cycle are received, to avoid confusion to sponsors. The brochure can then be printed out for distribution after the Committees agree on the timing and procedures for the next funding cycle (perhaps in late winter).



Bob Bugert suggested that it helps when Julie can allocate time into the project applications so that she is knowledgeable about the details of the projects. This helps the Committees in their deliberations on the projects.

7. Revisions to Small Projects application form

Tom and Julie suggested some revisions to the Small Projects application form that would give the Committees more detailed information on the proposed project. Julie also added an “example application” that would give the project sponsors an indication of what is required in a complete application. The group said the example should have specific information to that portrays realistic agencies and situations, yet to keep it neutral as it currently is. Julie will draft a new version for review and discussion at the October meeting.

8. DECISION ITEMS: Funding of the small project proposals

The Committees reviewed three applications received in August; each is discussed below:

- *McDevitt Small Project Application* The group toured this project during lunch break, and heard about the proposal from Steve Kolk of the Bureau of Reclamation. This is primarily a screening project, but benefits also include better passage for steelhead at low flows and perhaps spring Chinook salmon at all flows. Permits are not yet secured. The Rock Island Committee approved funding of \$7,016 for this project based on the Plan Species account for that Settlement Agreement. The Committee directed Bob to notify the sponsor.
- *Gagnon Small Project Application* This project would relocate a pump screen intake from a push-up diversion on the Wenatchee River to a removable intake at an infiltration gallery adjacent to the river. Some members were concerned that the benefits to salmonids would not be high, but concurred that the project could be a good outreach tool for the Committees. Some thought that the project is a good means to support landowners who do beneficial work, which is the intent of the Small Projects Program. Others countered that this could set a difficult precedent in funding; if this project is approved, there could be many more submissions of this type of project. After considerable discussion, the Rock Island Committee approved funding of \$12,694 for this project based on the Plan Species account for that Settlement Agreement. The Committee directed Bob to notify the sponsor.
- *Belsby Small Project Application* This project would install fencing and an alternative livestock watering facility on Spring Creek of the Methow River near the confluence with the Chewuch River. The facility would be used primarily for fall cattle pasture and for horses. Wells have been drilled, but there is a need for power supply and troughs. The Committees deliberated whether the livestock exclusion provides enough benefit to salmonids. The Wells, Rocky Reach, and Rock Island Committees declined to fund the application as proposed. It appeared to the Committees that many of the costs were more associated with improving conditions for management of the agricultural operation than with improving fish habitat conditions. For example, the proposed fence is designed to exclude deer in addition to containing livestock, making it substantially more expensive than necessary to exclude livestock from riparian areas. Similarly, it seems to the Committees that while the development of two additional wells may facilitate management of the ranch, adequate water could be provided by connecting the existing supply at the barn to a stock tank and float shut off system. The Committees are interested in working with the landowner to improve and maintain riparian areas on this

ranch. However, our support would be contingent on a more equitable allocation of project costs in relation to habitat benefits.

9. Procedures for reviewing General Project proposals

The Committees reviewed the timelines and procedures for reviewing the General Salmon Habitat Fund applications. The approach is described below:

Date	Agenda and Milestone
September 30, 2005	General Salmon Fund Applications due to the Tributary Committees
October 05, 2005	Applications posted to the ftp site and emailed to Committee members, assuming all applications are submitted electronically.
October 12, 2005	RTT review of general salmon fund applications
October 13, 2005	Tributary Committees Meeting. Identify who should be invited to present their proposal.
November 09, 2005	Tributary Committees Meeting: Invited presentations of proposed applications.
November 10, 2005	Tributary Committees Meeting: Invited presentations of proposed applications (if needed).
December 08, 2005	Tributary Committees Meeting: Discussion of status of SRFB deliberations on projects with matches. The Committees may approve funds for projects, if prepared to do so.
January 12, 2005	Tributary Committees Meeting: Funding decision meeting (if note done already).

Bob Rose asked Julie to develop a scheduled outline of funds available from each Plan Species Account for the next five years, allowing the Committees the capability to do some long-term planning on allocation of the accounts.

The Committees agreed to allow submission of the SRFB applications in lieu of Tributary Fund applications, if they are submitted as cost shares to the two funding sources. The sponsors should redline any additional information in the application to help the RTT and Tributary Committees in the review. Bob Rose stated that the RTT should submit their individual scores for each project merit criterion. This would provide more credibility and transparency in the technical review. In addition, he suggested the Tributary Committees have two additional review criteria: 1) an indication of landowner approval, and 2) an indication of agency support or commitment to the project.

10. Options for supporting assessments by the Bureau of Reclamation

The Committees reviewed the proposals submitted by the Bureau of Reclamation for funding specific components of the habitat assessments to be conducted on the Methow, Entiat, and Wenatchee subbasins. The members reviewed each component individually, to identify whether some should be funded as ‘stand-alone’ assessments. The Committees discussed the LiDAR work in considerable detail, as it is proposed for reaches in all three Subbasins. There was concern whether the levels of precision justified the expense needed to conduct the work. Rather, it may be more appropriate to do some lower-level field reconnaissance to identify projects. Chris Parsons maintained that the results of LiDAR could be useful for critical areas ordinances, FEMA floodplain protection areas, and other uses. If so, then the assessment should be supported by other entities that have interests in this technology.

**Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 11 August 2005**

Members Present: Dale Bambrick (NOAA-F), Dennis Beich (WDFW), Chris Fisher (Colville Tribes), Tom Kahler (Douglas PUD), David Morgan (USFWS), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

Others Present: Bob Clubb (Douglas PUD), Julie Pyper (HCP Project Coordinator), Joe Spinazola (BOR), Greg Knott (BOR), Steve Kolk (BOR)

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Decision Items: The Rock Island and Rocky Reach Committees unanimously agreed not to fund the small project proposal *Salmon-friendly Weed and Park Management Alternatives*.

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1. Review of proposed agenda

The Committees reviewed and adopted the proposed agenda.

2. Review of past meeting notes

The Committees reviewed and adopted the 14 July meeting notes, with revisions provided by Tom Kahler and Keith Truscott.

3. Douglas PUD appointment to Wells Tributary Committee

Bob Clubb stated as of 1 August Tom Kahler will be Douglas PUD's principal designate to the Wells Tributary Committee, with Rick Klinge serving as their alternate.

4. Ownership of Plan Species Accounts

The group discussed the status of the deliberations among the legal advisors to WDFW, NOAA-Fisheries, and the two PUDs on whether the funds in the Plan Species Accounts are owned by the Committees or are maintained by the districts themselves. This has considerable bearing on the procedures and obligations of the districts when contracting with project sponsors. All members agreed that this issue is of concern, as it may impede the capability of the Tributary Committees to conduct their business in an efficient manner. Bob Clubb said that contracting would be much more cumbersome and expensive if the funds are considered property of the PUDs, as they may be required to use prevailing wages, competitive bidding, and perhaps approval by their boards if over a set cost. Keith noted that the requirement for board approval by the Chelan PUD board was for costs over \$50,000; Bob Clubb said the Douglas PUD board must approve the project if the costs exceed \$10,000.

Dale Bambrick and Bob Clubb reviewed the intent of the Tributary Fund in the HCP Settlement Agreement—that the Plan Species Accounts were to be owned and managed by the Committees, unless the HCPs were dissolved. Bob Clubb reminded the group that both PUDs met with the State Auditor's Office on this issue, and the SAO interpretation was in agreement with the language of the Settlement Agreement. Further, the Auditor ruled that the contracts with project sponsors do not have to go through the districts' established procedures.

Other components of the Methow study include water temperature monitoring using FLIR flights, snorkel surveys in the mainstem Methow, assessment of spring Chinook habitat use in areas prone to dewatering, and GIS ortho-rectifying of historical photos of stream channels. Additional studies for the Wenatchee/Entiat include snorkel and spawning surveys for Peshastin Creek, effects of the railroad on habitat in Nason Creek, non-native species and lamprey assessment on Icicle Creek, and GIS ortho-rectifying of historical photos of stream channels. The Committees decided not to fund any component of these proposals at this time, pending further deliberations by the group. Although it was not formally decided, the group saw the benefits of reviewing these proposals as part of the overall review of the General Habitat proposals.

Dale reported to the group of his recent discussions with the Bureau of Reclamation regarding the crediting of performance metrics for projects jointly funded through their BiOp and other sources, such as the Tributary Fund. He recommended to his Assistant Regional Administrator that the credit be proportional to the amount of financial support provided by the Bureau to a given project. The Committees will not make a statement regarding the credit allocation, but members generally agreed that it is appropriate for individual entities to establish their policy and to inform the other Committee members of that policy.

The Committees asked Bob and Julie to start development of an RFP for project identification on specific projects in key areas. The group thought that Nason Creek may be an appropriate site to consider. Bob Bugert suggested that the Tributary Committees consider the Nason Creek side channel assessment, if that proposal is not funded by the SRFB.

11. Next steps

The next regularly scheduled meeting of the Tributary Committees will be Thursday, 13 October (9:00 to 3:00), tentatively at Chelan PUD. In addition, the Regional Technical Team will review the General Salmon Habitat Proposals on 12 October (9:00 to 3:00), tentatively at Chelan PUD auditorium.

Meeting notes by Bob Bugert ([BobBugert@nwi.net](mailto:BobBugert@nwi.net))

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 13 October 2005

Members Present: Dale Bambrick (NOAA-F), Chris Parsons (alternate for Dennis Beich, WDFW), Chris Fisher (Colville Tribes), Tom Kahler (Douglas PUD), David Morgan (USFWS), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

Others Present: Julie Pyper (HCP Project Coordinator), Dick Nason (Consultant to Chelan PUD)

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Decision Items: Until they are notified otherwise by the members' legal advisors, the HCP Tributary Committees will proceed with contracts for authorized proposals under the supposition that the Plan Species' Accounts are owned and managed by the Committees themselves.

Noting that their decision is not an indication of intent to fund, the Committees directed the chair to invite the sponsors of ten projects to present detailed proposals at the November meeting.

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1. Review of proposed agenda

The Committees reviewed and adopted the proposed agenda with one addition: Tom Kahler asked to discuss District billing for administrative services.

2. Review of past meeting notes

The Committees reviewed and adopted the 13 September meeting notes, with revisions provided by Tom Kahler and Keith Truscott.

3. District services to Plan Species Account

Tom said that Douglas PUD has incurred an annual cost of administering the Plan Species' Account and inquired about the correct means to bill this service to the Tributary Committees. The annual fee is about \$2,000. Bob Rose and Dale asked whether the PUDs could absorb some of these costs. Keith responded that the PUDs absorb some administrative costs, but there are other incidental costs that need to be billed to the Plan Species Account. Dick Nason said there is no language in the Settlement Agreement that specifically indicates what types of actions are to be covered in the administrative portion of the Plan Species Accounts. Keith added that Chelan PUD is considering hiring a separate firm to manage the accounts related to the administrative expenses. The Committees directed Julie and Bob to research the options for managing and billing the administrative expenses to the Plan Species Accounts.

4. Update on discussions related to ownership of Plan Species Accounts

The Committees discussed the status of the legal deliberations over the ownership of the Plan Species Accounts. It appears there has not been a final legal position arrived at by WDFW and NOAA since the September meeting. Noting the need to begin contract development with the two authorized projects (McDevitt and Gagnon), the Committees decided to operate in the interim

as if the funds were owned by the Committees rather than the PUDs. This assumption is consistent with the language in the HCP Settlement Agreements. They will continue to operate in this manner until the ownership issue is resolved by the legal advisors to the Committee members.

5. Update from HCP Environmental Project Coordinator

Julie Pyper reviewed the schedule for November project review session, based on the assumption that there will be presentations required of some of the project sponsors. The group said they will make a determination on who would present at the end of the day. Bob Bugert reminded the group that he would not be in attendance at the November meeting, and that HCP Coordinating Committee chair Mike Schiewe will facilitate that session.

Julie distributed the template scopes-of-work for the two funded projects: McDevitt and Gagnon. She also handed out a draft project sponsor agreements for review by the Committees. Julie's goal is to ensure that the invoicing can be completed within 30 days of contracting. Bob asked that comments be provided to Julie by Thursday 27 October. The final draft will be reconciled and adopted at the November meeting. This would allow the Rock Island Tributary Committee to enter into the contract immediately thereafter with Chelan County Conservation District for the McDevitt and Gagnon small projects.

Julie notified the Committees that Tracy Hillman has begun drafting guidance language for implementation monitoring. She provided a flow chart/diagram on the relation between implementation and fiscal monitoring, effectiveness monitoring, status and trend monitoring, and validation monitoring, and a suggestion on how the assessment funds in the Settlement Agreements may fit into this approach. The Committees will review this item and discuss it in detail in subsequent meetings, probably after the deliberations on the General Habitat Program proposals are completed.

In conjunction with Keith and Tom, Julie gave an update on the status of funds available through the Plan Species Accounts. As of 1 October 2005, the funds available from the Rock Island Project Plan Species Account are \$1,141,860 less the Gagnon and McDivett small projects, and the funds from the Rocky Reach Project Plan Species Account are \$540,806, for a total of \$1,682,666. As of 30 September 2005, the estimate of funds from the Wells Project Plan Species Account is \$2,330,862 (which does not include the proposed administrative service fee, discussed in item 3 above). All of the estimates do not include other administrative costs such as the HCP Project Coordinator.

6. Review of General Salmon Habitat Applications

The Committees received 29 proposals through the General Habitat Program (13 in Wenatchee Subbasin, two in Entiat Subbasin, one in Chelan Subbasin, eight in Methow Subbasin, and five in Okanogan Subbasin). The group collectively reviewed each proposal, and the comments from the Regional Technical Team. They directed Julie and Bob to conduct some background research on some of the proposals, and will continue their reviews in November and December.

7. DECISION ITEM: Identify projects for November presentations

The Committees identified ten projects that they need additional information to make a determination on suitability for funding:

- 1) Alder Creek Culvert,
- 2) White River Floodplain and Habitat Protection,
- 3) Nason Creek Channel Migration Zone Assessment,
- 4) Entiat Instream Structures,

- 5) Entiat Instream Structure Engineering and Permitting,
- 6) Methow Riparian Protection,
- 7) Twisp River Acquisition
- 8) Transfer Ditch and Piping
- 9) Okanogan/Similkameen Confluence Restoration
- 10) Okanogan River Restoration, Phase III

The Committees directed Bob Bugert to contact the sponsors of these projects to provide additional detail on these projects at the November 10 meeting. Bugert will work with the sponsors to ensure the correct information is provided at that meeting. The Committees noted that the invitation of these sponsors to the next meeting does not indicate an intention to fund their projects.

8. Small Project Proposal

Bob Bugert notified the Committees that Chelan County submitted a proposal through the Small Projects Program. They propose to hire a consultant to facilitate the development of a “land-swap” mechanism for the county. This proposal was developed in consultation with the Public Lands Dialogue Group. The Committees will likely deliberate on this proposal at the December meeting.

9. Next steps

The next regularly scheduled meeting of the Tributary Committees will be on 10 November (9:00 to 3:00), tentatively at Chelan PUD.

Meeting notes by Bob Bugert ([BobBugert@nwi.net](mailto:BobBugert@nwi.net) )

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 2 November 2005

Members Present: Tom Kahler (Douglas PUD), David Morgan (USFWS), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD), and Bob Bugert (Committee Chair)

Members Absent: Dale Bambrick (NOAA-F), Dennis Beich (WDFW), Chris Fisher (Colville Tribes)

Others Present: Julie Pyper (HCP Project Coordinator), Dick Nason (Consultant to Chelan PUD), Joseph Jones (USGS), Kate Terrell (USFWS), Russell Langshaw (Grant PUD), and Ben Lenz (Grant PUD)

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The purpose of this *ad hoc* meeting was to gather additional information on the application of LiDAR (Light Detection and Ranging) for stream restoration projects. The Committees welcomed Joseph Jones, with the Washington Water Science Center of USGS, to discuss the technology of mapping potential habitat with remote sensing, and LiDAR in particular. LiDAR has been an emerging technology to identify flood prone areas, earthquake prone sites, channel migration zones, silvicultural capabilities, and many other predictive uses. LiDAR uses an infrared laser that rapidly scans the surface area from the air. The scan is from twin-propeller planes from a relatively high elevation (at about 3,000 feet above the stream) to prevent parallax, but the scan loses precision at these higher elevations. Regardless, the resolution is very high (up to 50,000 pulses per second), giving an elevation increment of up to 1 cm every 1m<sup>2</sup>. A square km of scanned land contains about 1.3 million points of raw data. The range in costs for this work is about \$500 to \$1,000 per stream mile. There are about twenty vendors available to do this work in the Pacific Northwest.

Joseph described the use of LiDAR in the Dosewallips River, where the lower five miles were developed, but in general this subbasin is heavily forested with substantial woody debris in the stream. They used LiDAR to identify potential habitat (avulsed, migrated and overflow channels), then used color orthophotography and field mapping to verify and augment the data. They have the capability to “virtually deforest” the mapped area—digitally removing all canopy coverage from the remotely sensed areas so they can see the geomorphology of the areas. The view of the “deforested” areas allows one to interpret the location of relic channels. One can also use these data to develop two-dimensional flow models.

Joseph said that we should get relatively good LiDAR data in North Central Washington because of the light conifer cover. He suggested that LiDAR be taken at low flow, because the water reflects the pulses, preventing the gathering of information on the stream channel. The scan would get information on stream channel elevation though.

The Committees discussed the LiDAR work in considerable detail, as it is proposed for reaches in more than one subbasin. The group inquired about how USGS conducts this work. Joseph said that the USGS gets about a third of its funding directly from Congress, another third comes from federal agencies, and the last third from cooperative agreements with other government agencies,



which presumably would include public utility districts. The USGS can engage in cooperative work with other governments through various cost-sharing mechanisms. To proceed with a cooperative agreement, the Tributary Committee should submit a single page scope of work. The flights would probably be done in fall 2006, allowing the Committees time to deliberate on this matter and come up with the best approach.

Bob Rose suggested that this timeline may be appropriate, so that we can develop a comprehensive effort with a consortium of entities that would have a need for this type of information. The group generally agreed, but took no action at this time. Joseph recommended that we look at the efforts of the Puget Sound LiDAR Consortium ([www.pslc.org](http://www.pslc.org)).

2. Next steps

The next regularly scheduled meeting of the Tributary Committees will be Thursday, 10 November (9:00 to 3:00), at Douglas County PUD auditorium.

Meeting notes by Bob Bugert ([BobBugert@nwi.net](mailto:BobBugert@nwi.net))

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 10 November 2005

Members Present: Dale Bambrick (NOAA-F), Chris Parsons (alternate for Dennis Beich, WDFW), Chris Fisher (Colville Tribes), Tom Kahler (Douglas PUD), David Morgan (USFWS), Bob Rose (Yakama Nation), Keith Truscott (Chelan PUD),

Others Present: Mike Schiewe (Alternate Chair), Julie Pyper (HCP Project Coordinator), Russell Langshaw (Grant PUD), Ben Lenz (Grant PUD), Dick Nason (Consultant to Chelan PUD)

*NOTE: Meeting notes prepared by Julie Pyper.*

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1. Review of proposed agenda

The Committees reviewed and adopted the proposed agenda with no revisions.

2. Review and adopt 13 October meeting notes

The Committees reviewed and adopted the 13 October 2005 meeting notes, with the revisions submitted; accepted as presented to the Committees at the meeting.

3. Draft project sponsor agreements

Julie Pyper provided an update on the draft project sponsor agreement. She stated that comments had been received on the draft agreement from Chelan and Douglas PUDs staff and legal counsel. She then deferred to the WDFW representative present to provide an update on the status of their comments. Chris Parsons relayed that WDFW legal counsel will be setting up a meeting in December to discuss the Agreement as well as the general operation of the Committees. An additional update will be provided at the December HCP TC meeting. Keith Truscott requested that Chelan PUD be included in interim discussions, Tom Kahler requested the same for Douglas PUD.

During this agenda items, Julie also provided her monthly HCP TC Project Coordinator report. Julie relayed that she would be emailing out a draft Sponsor/Landowner Agreement for Committee review. She also would be emailing out a Landowner Willingness form and described her purpose for developing the form.

Next, Julie handed out the discussion draft only 5-year budget scenarios for the Rock Island and Rocky Reach Plan Species Accounts. It was noted that Chelan County PUD was distributing this information to assist the Committees in making funding decisions, and that it was not intended for any other purpose. She mentioned that Douglas PUD had provided similar information at the previous month's HCP TC meeting.

While Julie handed out the 5-year budget scenarios, she requested that Keith start the discussion on the financial management of the Plan Species Account. He described that

Chelan County PUD was in the process of developing a proposal for the Rocky Island and Rocky Reach Committees' consideration for the monthly financial management of the appropriate Plan Species Accounts. It was discussed by Committee members that perhaps existing staff could do the financial tracking. Other members also mentioned that they did not know the amount of time that would be needed to perform the financial tracking. Julie also conveyed that she had additional questions about the financial tracking for the Plan Species Accounts. The Committees responded by directing Julie to work with both Chelan and Douglas County PUD in developing proposals for the financial management of the accounts and obtaining additional information. This additional information and the proposals are to be presented to the Committees at next month's HCP TC meeting.

4. Cultural Assessment and Consultation

Julie conveyed that she had been coordinating between Douglas and Chelan PUDs the development of cultural consideration language for the HCP TCs' operating policies and for the HCP TC/Sponsor Agreement. She requested that Keith and Tom update the Committee on the current status. Keith started by describing the cultural consultation FERC article in the PUD's licenses. He explained that Chelan and Douglas PUD were working on draft language in consultation with the Yakama Nation and the Colville Confederated Tribes. Julie indicated that the PUDs and the Tribes would continue to work together on this issue in preparation for the next HCP TC meeting; they would jointly develop language to be included in the HCP TC/Sponsor Agreement and develop final draft proposed language for the operating procedures of the Committees. The Committees concurred with this path forward.

5. Additional information

Chris Parsons offered to provide additional information on the Wenatchee channel migration projects and the Beebe Springs project for consideration by the Committees.

6. Presentations on Selected General Salmon Habitat Applications

The Committees then listened to presentations on the following projects. A copy of the information presented is available on file.

**Alder Creek Culvert (with implications about other culverts: Chelan County)**

Those representing Chelan County: Joy Juelson, Mike Kaputa, Alan Schmidt

**Nason Creek Channel Migration Zone Assessment (Chelan County)**

Those representing Chelan County: Joy Juelson, Mike Kaputa, Alan Schmidt

**White River Habitat Protection (Chelan/Douglas County Land Trust)**

Those representing Chelan/Douglas County Land Trust: Gordon Congdon

**Entiat Instream Structures (with emphasis on the relation between the two projects: Chelan County Conservation District and Chelan County)**

Those representing Chelan County Conservation District: Sarah Walker; those representing Chelan County: Mike Kaputa

**Methow Riparian Protection (Methow Conservancy)**

Those representing the Methow Conservancy: Katharine Bill

**Okanagan River Restoration Initiative, Phase III (Okanagan Nations Alliance)**

Those representing the project: Steve Mathews, Chris Bull and Carrie Long

**Twisp River Acquisition (Methow Salmon Recovery Foundation)**

Those representing the Methow Salmon Recovery Foundation: Chris Johnson

**Beaver Creek Transfer Ditch and Piping (Okanagan County Conservation District)**

Those representing the Okanogan Conservation District: Bob Anderson

**Okanogan/Similkameen Confluence Restoration (Upper Columbia Regional Fisheries Enhancement Group)**

Those representing the Upper Columbia Regional Fisheries Enhancement Group: Daphne Cockle and Paul DeVries  
RH2 Resource Consultants

7. Next steps

The next HCP TCs meeting is scheduled for December 8, 2005. The location will be communicated at a further date. Bob Rose communicated to the Committees that he would not be able to attend the next scheduled meeting.

Wells, Rocky Reach, and Rock Island HCP  
Tributary Committees  
Meeting Notes, 8 December 2005

Members Present: Chris Parsons (alternate for Dennis Beich, WDFW), Chris Fisher (Colville Tribes), Tom Kahler (Douglas PUD), David Morgan (USFWS), Lee Carlson (alternate for Bob Rose, Yakama Nation), Keith Truscott (Chelan PUD), Bob Bugert (Committee Chair)

Others Present: Julie Pyper (HCP Project Coordinator), Russell Langshaw (Grant PUD), Ben Lenz (Grant PUD)

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1. Review of proposed agenda

The Committees reviewed and adopted the proposed agenda, with one item added by Chris Parsons: procedures for addressing information responses. Dale Bambrick notified the chair in advance of the meeting of his inability to attend because of schedule conflicts.

2. Review of past meeting notes

The Committees reviewed and adopted the 2 November and 10 November meeting notes, with revisions to the latter provided by Chris Parsons and Tom Kahler.

3. Schedule changes to accommodate Wells Resource Work Group meetings

At the request of Shane Bickford, Bob Bugert asked the Committees to reschedule their 13 July and 14 September meetings to prevent a conflict with the Wells Resource Work Group (RWG) meetings. Each Committee member said that he or she would not attend those RWG meetings, so there was no need to change schedules (however, this will be confirmed with Bambrick, Beich, and Rose). Also, the group decided to maintain the same meeting schedule for 2006: the second Thursday of each month.

4. Update on cultural assessment and consultation

Julie notified the group that she received comments from Yakama Nation, Chelan PUD, and Douglas PUD on the draft cultural assessment, which is required in their FERC licenses. Chris Fisher said that he notified Sean Hess, the contact within the Colville Tribes, and has not received a response. He will follow up on this contact. Chris Parsons asked the Committees how the costs for assessments and consultation will be covered. Keith suggested that the Committees would have to determine if these should be covered in the appropriate Plan Species Account.

5. Delegation of authority to chair as signatory representative

Julie reported that she is revising the draft memorandum to authorize the chair to act as the signatory representative to the Committees. This authority would include (1) correspondence to notify project sponsors of funding, (2) to carry out sponsor agreements, and (3) to execute special considerations for projects, such as termination or an amendment. In regards to documenting the chair's delegation of authority, Julie said it would be easier to have one document for each Committee, rather than one comprehensive memorandum.

Bob asked the group to authorize funding for him to have legal review to ensure that he, as the authorized representative of the Committees, would not necessarily assume liabilities for the

Committees. Bob also said that Mike Schiewe agreed to serve as the alternate, and asked for legal review of his liability as well. The group approved this request.

Julie recommended that each Committee member have internal review by their respective agencies, yet reminded the group that this authorization is contingent upon the decision on the ownership of the Plan Species Accounts (discussed in Section 7). Chris Parsons asked to review the draft memorandum prior to resolution of the ownership issue. Julie said it would be available within a week and she will then distribute it.

6. HCP Coordinator's report

Julie Pyper said the committee sponsor agreements are essentially complete, with two exceptions: the delegation of authority and the cultural assessment and consultation. She said she has received comments from Chelan and Douglas PUDs, and assumes that the other members are comfortable with the documents.

Julie then reported on the procedures for fiscal tracking of the Plan Species Accounts. Chelan PUD's decision whether to internally manage their accounts, or to contract out this service, will depend on the final decision on ownership of the Plan Species Accounts. Douglas PUD has indicated that, at this time, they will manage their account, but will make this final determination after the decision on the ownership of the accounts is made.

Julie has been working on a project checklist to make sure all provisions in a funded project and the resultant sponsor agreement are addressed. She developed templates for budget modifications, time extensions, landowner willingness, and other forms; all will be posted on the HCP web site for easy access by the project sponsors.

Julie suggested that the Committees sponsor a workshop to discuss the General Salmon Habitat Program application process. It is important to solicit input from project sponsors on means to improve the project solicitation, review, and decisions on future grant cycles. This would likely be done in late winter (if the Committees decide to have a funding cycle next year). The group agreed to the need for this, but first will have an internal discussion on how to approach the next funding cycle. The Committees directed Julie and Bob to provide a brief report to the Committees on what went well—and what did not—during this first funding cycle, with recommendations for next year. This will be an agenda item for February.

The Committees discussed the funding approach being considered by the Grant PUD Habitat Committee, where emphasis may be placed on key areas or reaches within a watershed. Noting that this may affect their approach for the 2006 funding cycle, the HCP Tributary Committees decided to have a special meeting with the Grant PUD Habitat Committee to coordinate strategies. The Committees directed Bob to set up a meeting, tentatively set for 1 February, depending on the availability of Dale Bambrick, Bob Rose, Dennis Beich, and Denny Rohr.

Julie advised the Committees of the workshop she attended on the EKOSystem project management software. Chelan County is entering into a contract with the software provider and asked Julie to ascertain the Committees' interest in purchasing a "seat" in this system. She said that the cost per seat is \$800, with a \$160 yearly maintenance fee. At this time, Julie said that currently she does not believe she needs it to manage the project information. The Committees recognized the need for a long-term and easily available data management system in the region. However, the group felt that it may be prudent to hold off on the purchase of a seat until a common process is established, either through the Upper Columbia Salmon Recovery Board or at the statewide level.

7. Methods for organizing and sharing information among Committee members

Chris Parsons suggested that there needs to be an established procedure for communication and information sharing by the Committees. She requested that there be a common repository of information as projects are developed. She also asked that there be better communication (and recording of those communications) between the Committees and the Regional Technical Team.

Chris also suggested that it may be more effective to receive paper copies of all Committee products, rather than in electronic format. Bob said that Chelan PUD has been covering the costs of reproductions and mailings, and suggested that it may be more appropriate for the Committees to cover these costs if they wished to have products mailed to them. Keith explained that the costs associated with sending the Committee members the applications received from the General Salmon fund application solicitation was large and requested that the Committee approve reimbursing Chelan PUD for the reproduction and postage costs. None of the Committee members disagreed with this request. After further discussions, the group decided that it best met their needs to send materials electronically, and for Bob and Julie to notify the Committees whether there is an email attachment tied to a particular agenda item. Chris also asked that the products be organized into a notebook for each Committee member. Bob said he would work with Chris on an approach that would work for Committee members.

8. Discussion of Chelan County's Small Project Proposal on behalf of Public Lands  
Dialogue Group: *Chelan County Land Exchange Assessment*

The Committees reviewed the application and had specific questions regarding the proposal: what are the deliverables, how does this apply to the White River acquisition in particular, and how would this work apply to other areas in general. The Committees decided to defer this question until January, when they will make decisions on funding the White River Acquisition Project. They instructed Bob to invite Gordon Congdon, Executive Director of the Chelan Douglas Land Trust, to the January meeting to discuss how the information gained from this assessment would be applied to land transactions in Chelan County.

9. Update on ownership of Plan Species Accounts

Chris Parsons said that Dennis Beich met with the WDFW and NOAA attorneys to discuss the concerns related to ownership of the Plan Species Accounts. The attorneys would like to meet with the Committees to discuss issues and options. Keith suggested that it may be appropriate for the agency and district attorneys to have a conference call, prior to the formal meeting. They instructed Bob to organize a conference call with state, federal, and district legal representatives. Thereafter, the attorneys would be asked to meet with the Tributary Committees at the January meeting.

10. Discussion of 2005 General Salmon Habitat Proposals

The Committees reviewed the proposals to the General Salmon Habitat Program, and made preparations for their funding decisions at the January meeting. They also discussed the status of the SRFB deliberations on those projects that are proposed as cost-shares. The Committee members asked Bob and Julie to gather follow-up information on five proposals:

1. Effectiveness monitoring for the Entiat instream projects,
2. Geomorphic and fluvial analysis of the Okanogan/Similkameen restoration project,
3. Cost estimates for the bottomless arch in Alder Creek,
4. A clarification of the fishway cost estimate for the Mill Creek culvert replacement, and
5. Flexibility of the Methow Conservancy in contracting with the Tributary Committees.

The Committees directed Bob to invite Katharine Bill, executive Director of the Methow Conservancy, to the January meeting to explore this issue.

11. Next steps

The next regularly scheduled meeting of the Tributary Committees will be on 12 January 2006 (9:00 to 3:00), tentatively at Chelan PUD. Agenda items will include the following:

1. Decisions on General Salmon Habitat Fund Applications,
2. Decision on the Small Projects Application, and
3. Discussion of the ownership of the Plan Species Accounts

Meeting notes by Bob Bugert ([BobBugert@nwi.net](mailto:BobBugert@nwi.net))



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**APPENDIX D**

**LIST OF WELLS HCP COMMITTEE MEMBERS**

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## Wells Dam Mid-Columbia HCP Committees

### Coordinating Committee

Name	Organization
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Shane Bickford	Douglas PUD
Ritchie Graves	NOAA Fisheries
Brian Cates	USFWS
Carmen Andonaegui	WDFW
Steve Parker	Yakama Nation

### Hatchery Committee

Name	Organization
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Rick Klinge	Douglas PUD
Kristine Petersen	NOAA Fisheries
Brian Cates	USFWS
Kirk Truscott	WDFW
Tom Scribner	Yakama Nation

### Tributary Committee

Name	Organization
Bob Bugert (Chair)	Consultant
Chris Fisher	Colville Tribes
Tom Kahler	Douglas PUD
Dale Bambrick	NOAA Fisheries
David Morgan	USFWS
Dennis Beich	WDFW
Bob Rose	Yakama Nation

### Policy Committee

Name	Organization
Michael Schiewe (Facilitator)	Anchor Environmental, L.L.C.
Joe Peone	Colville Tribes
Bob Clubb	Douglas PUD
Keith Kirkendall	NOAA Fisheries
Mark Miller	USFWS
Bill Tweit	WDFW
Virgil Lewis	Yakama Nation

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**APPENDIX E**  
**MID-COLUMBIA FORUM MEETING MINUTES**

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Anchor Environmental, L.L.C.  
1423 3<sup>rd</sup> Avenue, Suite 300  
Seattle, Washington 98101  
Phone 206.287.9130  
Fax 206.287.9131

## Final Memorandum

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**To:** March 29, 2005 Mid-Columbia Forum Attendees

**From:** Michael Schiewe, Chair, Mid-Columbia HCP Coordinating Committees

**Date:** May 4, 2005

**Re:** Revised Minutes of March 29, 2005 Mid-Columbia Forum

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A meeting of the Mid-Columbia Forum (Forum) was held at the Wenatchee Convention Center in Wenatchee, Washington on March 29, 2005 from 9:30 am to 3:00 pm. This meeting was the first, of what is envisioned to be periodic meetings, to communicate and coordinate with the non-signatories and other interested parties on the implementation of the Wells, Rocky Reach, and Rock Island Anadromous Fish Agreements and Habitat Conservation Plans (HCPs). The HCPs were signed in April 2002 and approved by the Federal Energy Regulatory Commission (FERC) in June 2004. Their purpose is to guide the conservation and management of Plan Species (spring, summer, and fall Chinook; sockeye and coho salmon; and steelhead) at the Rocky Reach (Chelan PUD), Rock Island (Chelan PUD), and Wells (Douglas PUD) hydroelectric projects.

The final meeting agenda for the Forum is provided as Attachment A and attendees are listed in Attachment B. Full PowerPoint presentations are available by CD or ftp from Anchor Environmental; for more information, please contact Ali Wick (awick@anchorenv.com) or Michael Schiewe at (206)287-9130.

### **I Introduction and Review of Agenda (Michael Schiewe – Anchor Environmental)**

Michael Schiewe opened the meeting by thanking everyone for their attendance. Schiewe introduced the Forum as an informal meeting for dialogue between the signatories, non-signatories, and other parties interested in the HCPs. He then introduced himself as chair of the Coordinating and Hatchery Committees and the facilitator of the Policy Committees, and introduced Bob Bugert as chair of the Tributary Committees. He introduced the Committees members, which include representatives from the following:

- Public Utility District No. 1 of Douglas County and its power purchasers (Douglas PUD)
- Public Utility District No. 1 of Chelan County (Chelan PUD)
- National Marine Fisheries Service (NMFS)
- U.S. Fish and Wildlife Service (USFWS)
- Washington Department of Fish and Wildlife (WDFW)
- Confederated Tribes of the Colville Reservation (Colville Tribes)

Schiewe described the process by which the Committees meet. The Coordinating Committees for the Wells, Rocky Reach, and Rock Island HCPs meet together as one group monthly; likewise for the Hatchery and Tributary Committees. The Policy Committees also meet together as one group, but on an as-needed basis for policy discussions relating to the implementation of the HCPs. A list of the Coordinating, Hatchery, Tributary, and Policy Committees members are provided in Attachment C. Schiewe updated Forum attendees that the Yakama Nation had recently begun the process of becoming a signatory to the HCPs by signing the Wells HCP; he indicated that this process was expected to be complete for Rocky Reach and Rock Island in the coming weeks.

Schiewe reviewed the agenda, indicating that the Coordinating Committees would introduce their work on fish passage and the status of the HCP implementation and programs. This would be followed by the Hatchery Committees' discussion of current hatchery programs. Lastly, the Tributary Committees would summarize their progress and introduce their policies and procedures for funding projects for tributary habitat. Schiewe indicated that questions and discussion were highly encouraged in order to foster dialogue throughout the meeting, and that there would be an extended question and answer session at the close of the meeting.

## **II Welcome (Wayne Wright – Chelan PUD)**

Michael Schiewe introduced Wayne Wright, the Assistant General Manager, Customer and Environmental Services for Chelan PUD. Wright welcomed everyone and thanked them for attending. He indicated that the PUDs are looking forward to being involved in a good working relationship between all parties during this HCP process.

### **III History of the Wells, Rocky Reach, and Rock Island HCPs (Bob Clubb – Douglas PUD)**

Wayne Wright of Chelan PUD introduced Bob Clubb, the Chief of Environmental and Regulatory Services for Douglas PUD, as the speaker of the history of the Wells, Rocky Reach, and Rock Island HCPs. Clubb outlined the background of the events leading up to the HCPs, including the early involvement of the FERC and others in the Mid-Columbia proceedings, the Settlement Agreements for the various hydroelectric projects, NMFS' work on the Final Environmental Impact Statement for the projects, and FERC's approval of the HCPs in June 2004. Work following the HCP signing in 2004 includes the initiation of HCP Committees proceedings and the HCPs implementation, as well as the agreement of the Yakama Nation to sign the HCPs.

### **IV Overview of Fish Passage: Goals and Objectives (Ritchie Graves – NMFS)**

Ritchie Graves of NMFS provided an overview of the goals and objectives of the fish passage elements of the HCPs. Highlights of this presentation included:

- The 91 percent combined adult and juvenile survival at the projects is the primary objective of the HCPs. This survival objective is a combination of the 93 percent juvenile project survival, 95 percent juvenile dam passage survival, and 98 percent adult dam passage survival objectives.
- Valid studies are implemented using paired release methodology during representative flow years; statistical precision is defined in the HCPs.
- There is a phased implementation of measures for the PUDs to achieve the survival standards under the HCPs.
  - Phase I: a 3-year period in which to conduct studies to determine current survival rates. Coordinating Committees determine whether the survival standard has been achieved.
  - Phase II or Phase III:
    - Phase II: Coordinating Committee determine that the standard has not been met, and the PUD is responsible for evaluating additional tools to improve survival.
    - Phase III: Coordinating Committee determine that survival standards have been achieved, and the PUD is required to re-evaluate survival

at 10-year intervals. There may be different phase designations for each Plan Species.

- The primary function of the Coordinating Committees is to oversee the standards, methodologies, and implementation of project measures; determine if standards are being achieved; and provide dispute resolution as needed for the Hatchery and Tributary Committees.

#### **V Chelan PUD: Status of Implementation, Current Programs, and Accomplishments (Shaun Seaman – Chelan PUD)**

Shaun Seaman of Chelan PUD provided a summary of the status of implementation, programs, and accomplishments for the Rocky Reach and Rock Island projects thus far in the HCP process. Highlights of this presentation included:

- The Coordinating Committees began meeting in January of 2003 and have reached decisions regarding meeting protocols, study planning, tagging methods, bypass programs, adult measures and studies, and decision calendars for HCP implementation.
- Survival studies have been implemented in 2002 and 2003 at Rock Island and all species were tested in 2004. Chelan PUD is in Phase III (Standards Achieved) for passing the 93 percent survival standard at Rock Island for yearling Chinook.
- Chelan PUD has been involved in predator control work for northern pikeminnow and a 3-year avian study in cooperation with the University of Washington.

#### **VI Douglas PUD: Status of Implementation, Current Programs, and Accomplishments (Shane Bickford – Douglas PUD)**

Shane Bickford of Douglas PUD provided a summary of the status of implementation, programs, and accomplishments for the Wells project and the HCP process. Highlights of this presentation included:

- Description and diagrams of Wells Dam hydro-combine components, capacity, and tributaries to the reservoir (Methow and Okanogan Rivers).
- Discussion of the Wells Dam fish bypass system and elements.
- Three years of monitoring at Wells Dam have indicated high bypass efficiencies for all juvenile HCP Plan Species.

- Three years of monitoring for project survival at Wells Dam have documented survival estimates exceeding the 93 percent survival standard for yearling spring and summer/fall chinook and for juvenile steelhead. As a result, the Coordinating Committee has determined that Douglas PUD is in Phase III (Standard Achieved) for spring and yearling summer/fall Chinook and steelhead, and is in Phase III (Additional Juvenile Studies) for sockeye and subyearling Chinook salmon.

## **VII Questions and Answers (Coordinating Committees)**

The following is a summary of the questions and discussion from the presentations:

Q: Do passage standards include delayed mortality?

A: Ritchie Graves (NMFS): Yes. Passage survival is measured to the extent possible with available technologies. For Passive Integrated Transponder tag (PIT-tag) studies, there is a control group and a tailrace-release group. Relative survivals for these tagged fish are based upon observations that take place several hundred miles downstream. For acoustic-tag studies, there is a redetection zone 20 to 30 miles downstream of the project. For the project studies discussed here, side-by-side PIT and acoustic tag studies have shown similar results.

Q: How was the 93 percent juvenile passage survival standard derived?

A: Ritchie Graves: This standard was derived as a reasonable expectation for survival for hydroelectric projects in this area. Provisions exist to raise this number if it is deemed necessary, and this standard applies to all Plan Species.

Q: How do survival standards fit into the No Net Impact (NNI) objectives of the HCPs?

A: Ritchie Graves: The overall combined NNI objective of the HCPs is 91 percent project survival, of which 7 percent will be compensated with hatchery programs, and of which 2 percent will be compensated with tributary programs.

Q: Can the Committee members think of some aspect of the HCP that is incomplete or stipulations that they would have liked the HCP document to include?

A: Brian Cates (USFWS): No. Actually, the USFWS has been pleased with the completeness of the document.

A: Jerry Marco (Colville Tribes): No, and the key for the Colvilles has been our involvement from the beginning of the process. We have found the phased implementation of the HCP



to be useful, as well as the Statements of Agreement that are used during the meetings to document decisions.

A: Carmen Andonaegui (WDFW): No. WDFW also has been pleased with the open-mindedness of the Committees to opportunities to improve survival.

A: Ritchie Graves: Just a comment—the HCPs under the Endangered Species Act (ESA) were designed to address exactly these issues, and to involve the landowners and stakeholders who deal with them. These Mid-Columbia HCPs are the only HCPs in the U.S. that deal with hydroelectric projects. If I were to identify common complaints about other HCPs, I would say that other HCPs often do not have well-defined goals and/or have weakly implemented adaptive management strategies; however, we do not have either of these problems in this particular HCP process.

Q: How would the HCPs interface with local government?

A: Michael Schiewe (Anchor Environmental): The Tributary Committees discussion later in the meeting will be helpful to address this question. Also, this Mid-Columbia Forum meeting has been implemented to encourage regular and communicative interaction between local governments and the public with the signatories of the HCPs.

### **VIII Overview of Hatchery Program: Goals and Objectives (Kristine Petersen – NMFS)**

Kristine Petersen of NMFS provided an overview of the Hatchery Committees' work in supporting the HCP implementation. Highlights of this presentation included the following:

- Artificial propagation is intended to compensate both for the inundation of the dam areas as well as the passage mortality at the dams.
- Hatchery compensation goals include the rebuilding of natural populations as measured by the Viable Salmonid Population (VSP) parameters (abundance, population growth rate, population spatial structure, and diversity), as well as providing harvest opportunities.
- Voting is by consensus.
- The PUDs are developing 5-year Monitoring and Evaluation (M&E) Plans with goals, requirements, and projects.
- Mechanisms for change in the hatchery program come as a result of monitoring and evaluation or through targeted research.

**IX Chelan PUD: Status of Implementation, Current Programs, and Accomplishments (Chuck Peven – Chelan PUD)**

Chuck Peven of Chelan PUD provided a status summary of the hatchery program for the Rocky Reach and Rock Island projects thus far in the HCP process. Highlights of this presentation included:

- Rock Island: hatchery obligation includes compensation for operation of the project. Chelan PUD's obligations under the HCP supersede those under the 1989 Settlement Agreement; current production levels are maintained until 2013 under the HCP. Some production numbers may be decreased prior to 2013.
- Rocky Reach: hatchery obligations include compensation for inundation and for operation of the project. Before 2013, Chelan PUD will fulfill the sockeye obligation. Similar to Rock Island, current production levels are maintained until 2013 under the HCP and some production numbers may be decreased prior to 2013.
- Lake Chelan: hatchery program is a result of a 1979 license, which was modified most recently in the 1990s, and will likely change again through the current relicensing process.
- Hatcheries include segregated (harvest) as well as integrated (supplementation) programs.
- Several production facilities are associated with the various HCP hatchery programs, including net pens, rearing ponds, and hatcheries.
- The Hatchery Committees are working collaboratively on Monitoring and Evaluation requirements, smolt traps, the adaptive management program, and working to increase harvest opportunities.

**X Douglas PUD: Status of Implementation, Current Programs, and Accomplishments (Rick Klinge – Douglas PUD)**

Rick Klinge of Douglas PUD provided a summary of the status of the hatchery program for the Wells project in the HCP process. Highlights of this presentation included:

- The HCP provides for hatchery compensation for all Plan Species.
- Hatchery programs are consistent with the objectives of the HCP
- A hatchery evaluation has been conducted, which included evaluating facilities and the interaction with native populations.

Douglas PUD has provided funding for a Sockeye Flow Management model, which was developed to increase sockeye and kokanee survival through better management of water releases. The Hatchery Committee has agreed that continued funding and implementation of the Flow Management model will satisfy the 7% hatchery mitigation requirement for sockeye .

## **XI Questions and Answers (Hatchery Committees)**

Q: What is the role for watershed councils and grassroots involvement in the hatchery process of the HCPs?

A: Kirk Truscott (WDFW): We haven't really discussed the grassroots involvement in the Hatchery Committees. Everyone agrees that grassroots involvement is beneficial in resource management. Generally, public involvement with hatchery programs is associated with school programs, eggbox programs, etc. The HCP hatchery programs include Endangered Species Act (ESA) listed species as well as non-listed species and are subject to the ESA regulations. Because the HCP is a legally binding program incorporating species listed under ESA, management agencies may have lesser opportunity to incorporate public involvement in the operational aspects of the hatchery program.

A: Kris Petersen (NMFS): There may be some opportunity for involvement of these groups in local recovery planning; there have been a series of public workshops for the Hatchery Genetic Management Plans. Other kind of hatchery involvement would be outside of the HCP process specifically, but it might be able to work with the tributary program; I would ask this question of Bob Bugert (of the Tributary Committees) this afternoon.

## **XII Overview of Tributary Program: Goals, Objectives, and Timelines (Bob Bugert – Biophilia)**

Bob Bugert, the chair of the Tributary Committees, provided a summary of the status of the tributary program in the HCP process. Highlights of this presentation included:

- To give some perspective, the HCP Tributary Fund is an ideal opportunity to support community efforts to protect and enhance salmon habitat in the Upper Columbia Region. The Tributary Committees worked to develop funding policies and procedures that will be accessible to the community.
- The tributary program is intended to compensate for 2 percent mortality at each dam. The Tributary Committees are tasked with organizing and funding projects to protect and enhance Plan Species habitat.

- Voting is by consensus and includes the same entities as the other Committees.
- The geographic scope of Wells-related funding accounts spans Wells Dam tailrace to Chief Joseph Dam and the tributaries between. The geographic scope of Rock Island/Rocky Reach funding accounts spans the Rock Island tailrace to Chief Joseph Dam and the tributaries between. The Okanagan River in Canada is eligible.
- The Wells account holds \$1,982,000 for the first 5 years and then either \$176,178/year or \$1,761,780 for each 10 year increment to the HCP. The Rocky Reach account has \$229,800/year and the Rock Island account has \$485,200/year (all in 1998 dollars).
- The Draft Upper Columbia Biological Strategy is the interim technical foundation for decision-making on habitat projects until the draft Upper Columbia Salmon Recovery Plan is adopted by the major participants to that process.
- The Tributary Committees have adopted their decision-making process, policies, and funding procedures. These products were distributed at the Forum.
- There is a General Salmon Habitat Program fund for complex, reach-level projects (minimum \$25,000), and a Small Projects Program (minimum \$1,000) for simpler projects. Additionally, these policies apply:
  - Anyone may apply
  - Matches are encouraged but not required
  - Innovative ideas and phased approaches are welcomed and encouraged.
  - One funding cycle per year for the General Salmon Habitat Program
  - Projects must be completed in 5 years for the General Salmon Habitat Program and 2 years for Small Projects program.
  - There is an optional pre-proposal process for the General Program, and technical and permitting assistance may be available for both programs
  - Applications may be submitted electronically
  - Contact is Bob Bugert: Bob.Bugert@charter.net and (509) 662-1127

*Address:*

The Tributary Fund  
P.O. Box 3301  
Wenatchee, WA 98807-3301

*Websites:*

[www.chelanpud.org](http://www.chelanpud.org) – go to HCP  
[www.douglaspud.org](http://www.douglaspud.org) – go to HCP

- The timeline is as follows:
  - March 29: Requests for proposals
  - June 20: Pre-proposals due
  - July 13: Pre-proposal workshop
  - July 28 to 29: Field tours
  - September 30: Applications due
  - October 10 to 14: Technical review
  - January 12: Awards announced

### **XIII Questions and Answers (Tributary Committees)**

Q: Will the Tributary Committees be going out to find projects, as well as soliciting applications for them?

A: Bob Bugert: Yes, if the Tributary Committees do not receive applications that address a priority habitat issue, we reserve the right to address this issue or to provide funds for someone to do this for us.

Q: Is the application period open as of today?

A: Bob Bugert: Yes, we are unveiling this today and applications are now welcomed.

Q: What is the purpose of the field tours?

A: Bob Bugert: The purpose of these is to look at likely projects and to provide interactive feedback and recommendations to potential project sponsors. We feel this is the best way to communicate with project sponsors on the expectations of the Tributary Committees. Field tours also give the committee members a better understanding of the projects' objectives. The Salmon Recovery Funding Board (SRFB) timeline is similar to our timeline, so the Tributary Committees will be able to coordinate project review and tours.

Q: Can you explain why the funds are apportioned by dam project?

A: Bob Bugert: Yes, this was done because the HCPs are separate documents for each dam project and each HCP requires mitigation under its stipulations. The Plans do not stipulate the relative allocation of funds to each tributary, yet each does specify a geographic description that funding from each Plan is limited to. Funds from the Wells Plan Species Account shall be directed toward the Columbia River and its tributaries from the Chief

Joseph Dam tailrace to the Wells Dam tailrace. Rocky Reach and Rock Island Plan Species Account funds shall be directed toward the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace.

Q: How are the Tributary Committees planning to advertise, if they are planning to do so?

A: Bob Bugert: We are using word of mouth and emails, as well as the websites I discussed earlier. We would appreciate ideas if folks have them.

Q: How does this work fit into long-range planning?

A: The Tributary Committees recognize that stewardship and maintenance of protected and enhanced habitats is critical to the long-term success of the Tributary Fund. The Committees encourage—but do not require—project sponsors to develop long-range management plans for protected and enhanced habitat.

#### **XIV Summary and Closing Comments (Michael Schiewe – Anchor Environmental)**

Michael Schiewe thanked all for attending and participating in this Forum and looks forward to meeting with everyone again at the next Forum.

#### **List of Meeting Minutes Attachments**

Attachment A: Meeting Agenda

Attachment B: List of Attendees

Attachment C: HCP Committees Members

**Attachment A  
Meeting Agenda**

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## Mid Columbia Forum

Tuesday, March 29, 2005  
9:30 am – 3:00 pm  
Wenatchee Convention Center  
Wenatchee, Washington

9:30 am	Introduction and Review of Agenda	Michael Schiewe
9:40 am	Welcome	Wayne Wright Chelan PUD
9:50 am	History of the Wells, Rocky Reach, and Rock Island HCPs	Bob Clubb Douglas PUD
10:00 am	Overview of Fish Passage: Goals and Objectives	Ritchie Graves NMFS
10:10 am	Chelan PUD: Status of Implementation, Current Programs, and Accomplishments	Shaun Seaman Chelan PUD
10:25 am	Douglas PUD: Status of Implementation, Current Programs, and Accomplishments	Shane Bickford Douglas PUD
10:40 am	Questions and Answers	Coordinating Committees
10:55 am	Break	
11:10 am	Overview of Hatchery Program: Goals and Objectives	Kristine Petersen NMFS
11:20 am	Chelan PUD: Status of Implementation, Current Programs, and Accomplishments	Chuck Peven Chelan PUD
11:35 am	Douglas PUD: Program Objectives, Status of Implementation, Accomplishments	Rick Klinge Douglas PUD
11:50 am	Question and Answers	Hatchery Committees
12:10 pm	Lunch – On Your Own	
1:15 pm	Overview of Tributary Program: Goals, Objectives, Timelines	Bob Bugert Biophilia
1:45 pm	Questions and Answers	Tributary Committees
2:45 pm	Summary and Closing Comments	Michael Schiewe

**Attachment B  
Meeting Attendees**

Name	Organization
Michael Schiewe	Chair, HCP Coordinating Committees, HCP Hatchery Committees Anchor Environmental, L.L.C.
Bob Bugert	Chair, HCP Tributary Committees Biophilia
Tod Jones	ARED, Inc
Ali Wick	Anchor Environmental, L.L.C.
Bernard Burnham	U.S. Bureau of Indian Affairs
Joe Kelly	U.S. Bureau of Land Management
Shaun Seaman	Chelan PUD
Chuck Peven	Chelan PUD
Keith Truscott	Chelan PUD
Becky Caputo	Chelan PUD
R. Sokolowski	Chelan PUD
Janel Duffy	Chelan PUD
Werner Janssen	Chelan PUD
Steve Hemstrom	Chelan PUD
Gordon Congan	Chelan-Douglas Land Trust
Ann Congdon	PUD
Jerry Marco	Colville Tribes
Chris Fisher	Colville Tribes
Chuck Jones	DCTLS
Dick Nason	Dick Nason Consulting
Shane Bickford	Douglas PUD
Tom Kahler	Douglas PUD
Rick Klinge	Douglas PUD
Gar Jeffers	Douglas PUD
Bob Clubb	Douglas PUD
Bill Dobbins	Douglas PUD
Meaghan Vibbert	Douglas PUD
Bob Whitehall	Entiat
Jim Hastreiter	FERC
Erich Gaedeke	FERC
Cliff Sears	Grant PUD
Tom Dresser	Grant PUD
Stephen Brown	Grant PUD
Jim Huffman	HDR Engineering
Mike McGowen	HDR/Fish Pro.
Wade Hathhorn	HDR Engineering
Patrick Nealson	Hydroacoustic Technology Inc.
Tracey Steig	Hydroacoustic Technology Inc.
Tony Grover	NW Power Conservation Council
Ritchie Graves	National Marine Fisheries Service
Kristine Petersen	National Marine Fisheries Service



Name	Organization
Dennis Carlson	National Marine Fisheries Service
Deana Machin	Okanogan Nation Alliance
Jeff Deason	Okanogan PUD
Joel Molander	Puget Sound Energy
Shane Scott	Public Power Council
Mark Thompson	Public Power Council
Shane Scott	Public Power Council
Kevin Kytola	Sapere Consulting
Todd Walsh	Sapere Consulting
Nancy Warner	The Nature Conservancy
Brian Cates	U.S. Fish and Wildlife Service
Kate Terrell	U.S. Fish and Wildlife Service
Steve Lewis	U.S. Fish and Wildlife Service
Gregg Kurz	U.S. Fish and Wildlife Service
Mark Miller	U.S. Fish and Wildlife Service
Phil Archibald	U.S. Forest Service – Wenatchee National Forest
Karin Whitehall	U.S. Department of Agriculture – Forest Service
Joe Sewazola	U.S. Bureau of Reclamation
Steve Kolk	U. S. Bureau of Reclamation
Pat Irle	Washington Department of Ecology
Bill Tweit	Washington Department of Fish and Wildlife
Carmen Andonaegui	Washington Department of Fish and Wildlife
Kirk Truscott	Washington Department of Fish and Wildlife
Dennis Beich	Washington Department of Fish and Wildlife
Chris Parsons	Washington Department of Fish and Wildlife
Patrick Vevley	Washington Department of Fish and Wildlife
Steve Parker	Yakama Nation
Bob Rose	Yakama Nation
Lee Carlson	Yakama Nation
Bill Gray	

**Attachment C**  
**HCP Committees Members**

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**Wells Dam HCP Committees**

**Coordinating Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Shane Bickford	Douglas PUD
Ritchie Graves	NMFS
Brian Cates	USFWS
Bill Tweit	WDFW
Carmen Andonaegui	

**Hatchery Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Rick Klinge	Douglas PUD
Kristine Petersen	NMFS
Brian Cates	USFWS
Kirk Truscott	WDFW

**Tributary Committees**

<b>Name</b>	<b>Organization</b>
Bob Bugert (Chair)	Consultant
Chris Fisher	Colville Tribes
Rick Klinge	Douglas PUD
Dale Bambrick	NMFS
David Morgan	USFWS
Dennis Beich	WDFW

**Policy Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Facilitator)	Anchor Environmental, L.L.C.
Joe Peone	Colville Tribes
Bob Clubb	Douglas PUD
Keith Kirkendall	NMFS
Mark Miller	USFWS
Jeff Koenings Bill Tweit	WDFW

**Attachment C**  
**HCP Committees Members**

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**Rocky Reach and Rock Island HCP Committees**

**Coordinating Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Shaun Seaman	Chelan PUD
Ritchie Graves	NMFS
Brian Cates	USFWS
Bill Tweit	WDFW
Carmen Andonaegui	

**Hatchery Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Chair)	Anchor Environmental, L.L.C.
Jerry Marco	Colville Tribes
Shaun Seaman	Chelan PUD
Kristine Petersen	NMFS
Brian Cates	USFWS
Kirk Truscott	WDFW

**Tributary Committees**

<b>Name</b>	<b>Organization</b>
Bob Bugert (Chair)	Biophilia
Chris Fisher	Colville Tribes
Keith Truscott	Chelan PUD
Dale Bambrick	NMFS
David Morgan	USFWS
Dennis Beich	WDFW

**Policy Committees**

<b>Name</b>	<b>Organization</b>
Michael Schiewe (Facilitator)	Anchor Environmental, L.L.C.
Joe Peone	Colville Tribes
Tracy Yount	Chelan PUD
Keith Kirkendall	NMFS
Mark Miller	USFWS
Jeff Koenings	WDFW
Bill Tweit	

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**APPENDIX F**

**SUMMARY AGREEMENT –**

**ADULT FALL-BACK STUDIES AND PHASE DESIGNATION**

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WELLS HCP COORDINATING COMMITTEE  
SUMMARY AGREEMENT  
ADULT FALLBACK STUDIES

**BACKGROUND**

The Wells HCP Agreement requires the District to identify adult fallback rates at Wells Dam by the end of Phase I. Phase I officially ended for the Wells Project once FERC approved the HCP Agreement on June 21, 2004.

**Juvenile**

Phase I juvenile project survival studies were completed in 1998, 1999 and 2000 for year yearling chinook and steelhead. Based upon the results of these studies, the District is in Phase III (Standards Achieved) for yearling chinook and steelhead.

Survival studies for subyearling chinook and sockeye have not been completed at Wells Dam. Limitation in tag technology, sample size, in-river fish collection and concerns over tag effects and migration rates (subyearling only) have to date prevented project survival studies from being implemented at Wells Dam. During HCP negotiations, these limitations were discussed at length. The District believes that little has changes since 2002, when the HCP parties agreed that the calculated dam passage survival for subyearling chinook and sockeye is greater than 95% at Wells Dam. Based upon the HCP Survival Study Decision Tree this would put the District in Phase III (Additional Juvenile Studies) for subyearling chinook and sockeye.

**Adult**

Adult telemetry studies have been conducted at Wells in 1992, 1993, 1997, 1998, 1999-2000 and 2001-2002. At the HCP Coordinating Committees request, the results of these studies were summarized and sent out for review (Fallback Summary Table). Follow-up discussions revealed the need to identify not only the rate of fallback but the biological significance of fallback at Wells Dam. To answer this question, Douglas PUD provided the Coordinating Committee with a summary document entitled: "*Fallback Rate and Fate Summary (1992-2002)*". This summary provides the fallback rates and fates for spring, summer/fall chinook, sockeye and steelhead<sup>1</sup>.

Based upon the information collected during these studies, the rate of fallback and missing fish is sufficiently small to conclude that the biological significance of fallback at Wells Dam is insignificant and is less than the 2% adult mortality rates allowed for in the Wells HCP.

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<sup>1</sup> Fallback rates for coho have not been investigated because rigorous telemetry studies are impossible to conduct at this time due to limitation in run size and resultant limitation on the number of fish that can be radio-tagged (averaging less than 150 fish per year). The Yakama Nation has been tagging adult coho sporadically since 2001. In 2002, 14 coho were radio-tagged at Priest Rapids Dam. Only one coho was detected at Wells Dam in 2002. In 2004 the Yakama's tagged 236 adults at Priest Rapids and 23 at Wells Dam. Only one of the coho radio-tagged at Priest Rapids Dam migrated upstream of Wells Dam in 2004. Only one of the 23 coho tagged and released into the forebay at Wells Dam, fell back over the dam. This single fish successfully reascended the dam and was observed entering the Methow River.

## **ADULT FALLBACK - SUMMARY AGREEMENT**

Douglas PUD has provided the Wells HCP Coordinating Committee with adult fallback rate and fate information that demonstrated that Wells Project fallback events likely have no biological significance to adult Plan Species. The Wells HCP Coordinating Committee has concluded, as required at the conclusion of Phase I in the Wells Project HCP, that yearling chinook and steelhead are designated to be in Phase III (Standards Achieved) and that sockeye and subyearling chinook are in Phase III (Additional Juvenile Studies).

The PUD, following agreement of the HCP Coordinating Committee, will test fallback rates on adult plan species should there be a significant change in project operation, the District's hatchery programs or a Mid-Columbia adult telemetry study is planned.

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**APPENDIX G**

**BYPASS OPERATIONS PLAN AND SUMMARY**

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Commissioners:  
MICHAEL DONEEN  
T. JAMES DAVIS  
LYNN M. HEMINGER



Chief Executive Officer/Manager:  
WILLIAM C. DOBBINS

## Public Utility District No.1 of Douglas County

1151 Valley Mall Parkway • East Wenatchee, Washington 98802-4497 • 509/884-7191 • FAX 509/884-0553

### Memorandum

TO: Wells HCP Coordinating Committee

FROM: Shane Bickford, Douglas PUD

DATE: January 10, 2005

SUBJECT: Proposed 2005 Juvenile Bypass Operating Plan

The 2005 spring outmigration at Wells Dam will consist of both naturally produced and hatchery produced fish spawned in 2003 and 2004. Natural produced fish are the progeny of 4,702 adult spring chinook and 28,977 adult sockeye counted at Wells Dam in 2003. Naturally produced steelhead are predominantly the progeny of 9,478 adult steelhead counted in 2002 (steelhead brood year 2003) and 9,963 adult steelhead counted in 2003 (steelhead brood year 2004).

Scheduled hatchery releases, above Wells Dam, include yearling spring chinook from the Chewuch (128,700), Twisp (160,000) and Methow Acclimation Ponds (205,091), Winthrop National Fish Hatchery (560,000) and from the Colville's Okanogan spring chinook reintroduction program (150,000). Coho will once again be released from the Winthrop National Fish Hatchery (250,000) and summer chinook yearlings will be released from the Carlton (350,000) and Similkameen (578,000) acclimation ponds. Hatchery summer steelhead will be released throughout the Methow and Okanogan rivers. Hatchery steelhead released above Wells Dam originate at the Wells (365,000), Winthrop (110,000) and Omak steelhead programs (13,000). In general, the hatchery yearling chinook and steelhead are scheduled to start on April 15<sup>th</sup> with Winthrop coho scheduled to be released on April 20<sup>th</sup>. By the end of April, all of the chinook and coho will be released. The steelhead releases historically continue into the middle of May with the bulk of the fish being released during the last week of April and the first week of May.



The summer outmigration expected to pass Wells Dam are 100% naturally produced ocean-type summer/fall chinook spawned during brood year 2004. Natural escapement of summer / fall chinook in 2004 was the fourth largest return since dam counts began at Wells Dam with a combined total of 38,624 counted at Wells Dam.

Operation of the bypass system throughout the 2005 season will be guided by the criteria contained within the Wells Dam Juvenile Dam Passage Survival Plan (Wells Juvenile Bypass Plan) found in Section 4.3 of the Wells HCP. One of the main goals of the Wells Juvenile Bypass Plan is to provide bypass operation for at least 95% of the spring and at least 95% of the summer migration of juvenile plan species.

During the last two years, bypass operations have been implemented based upon an analysis of 21 years of hydroacoustic and 14 years of species composition information collected on juvenile run patterns at Wells Dam. Based upon this analysis, Douglas PUD has proposed bypass operating dates broader than those contained within the Wells HCP Agreement. The HCP Agreement originally directed the District to operate the bypass continuously from April 10<sup>th</sup> to August 15<sup>th</sup>.

However, based upon the District's 21-year run-timing analysis, presented and agreed to by both the Wells HCP Committee and the Wells Coordinating Committee in February 2004, initiation of the Wells bypass system on April 12<sup>th</sup> and termination on August 26<sup>th</sup> will conservatively provide bypass operations for 95% of both the spring and summer outmigrations.

Historically, initiation of the bypass system on April 12<sup>th</sup> would provide a non-turbine passage alternative for 95.5% of the spring migration. Similarly, shutting down the bypass system on August 26<sup>th</sup>, on average would provide bypass operation for 95.0% of the summer migration. Similar to the past 6 years and for accounting purposes, the end of the 2005 spring bypass season will be June 13<sup>th</sup> at 2400 hours and the beginning of the summer bypass season will be June 14<sup>th</sup> at 0000 hours.



# Public Utility District No. 1 of Douglas County

1151 Valley Mall Parkway • East Wenatchee, Washington 98802-4497 • 509/884-7191 • FAX 509/884-0553

## Memorandum

TO: Wells HCP Coordinating Committee

FROM: Shane Bickford, Douglas PUD

DATE: August 30, 2005

SUBJECT: Summary of 2005 Bypass Operations at Wells Dam

The 2005 spring outmigration at Wells Dam consisted of natural stream-type fish spawned during brood year 2003 and 2004. Escapement of stream-type fish included a spring chinook natural escapement of 1,437 adults (Wells Count minus hatchery broodstock minus summer Chinook seen during spring Chinook count period<sup>1</sup>), a sockeye escapement of 28,977 adults (Wells Count) and a steelhead escapements of 9,478 in 2002 and 9,963 in 2003 (Wells Counts).

Hatchery releases above Wells Dam included yearling spring chinook releases from the Chewuch, Twisp and Methow Acclimation Ponds, from the Winthrop National Fish Hatchery and from the Colville's Okanogan spring chinook reintroduction program. Coho were released from the Winthrop National Fish Hatchery and summer chinook yearlings were released from the Carlton, Similkameen and Bonapart Acclimation Ponds. Hatchery summer steelhead were released throughout the Methow and Okanogan rivers. Hatchery steelhead released above Wells Dam originate from the Wells, Winthrop and Omak steelhead programs.

The summer outmigration that passed Wells Dam consisted entirely of naturally produced ocean-type summer/fall chinook spawned during brood year 2004. Natural escapement of summer / fall chinook in 2004 was 32,847 fish counted at Wells Dam.

The initiation and termination of the Wells bypass in 2005 was guided by the Wells HCP Coordinating Committee through the approved of the 2005 Bypass Operating Protocol. Operation of the bypass system was strictly guided by both the committee approved 2005 Bypass Operating Protocol and the Bypass Operating Plan contained within Section 4.3 of the Wells HCP Agreement. The initiation and termination dates contained within the 2005 Protocol were based upon 21 years of hydroacoustic and 14 years of species composition information collected

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<sup>1</sup> Humling, M. and C. Snow. 2004. Spring Chinook Spawning Ground Surveys in the Methow River Basin in 2003. Washington Department of Fish and Wildlife; Prepared for Pubic Utility District No. 1 of Douglas County, East Wenatchee, WA; March 2004.

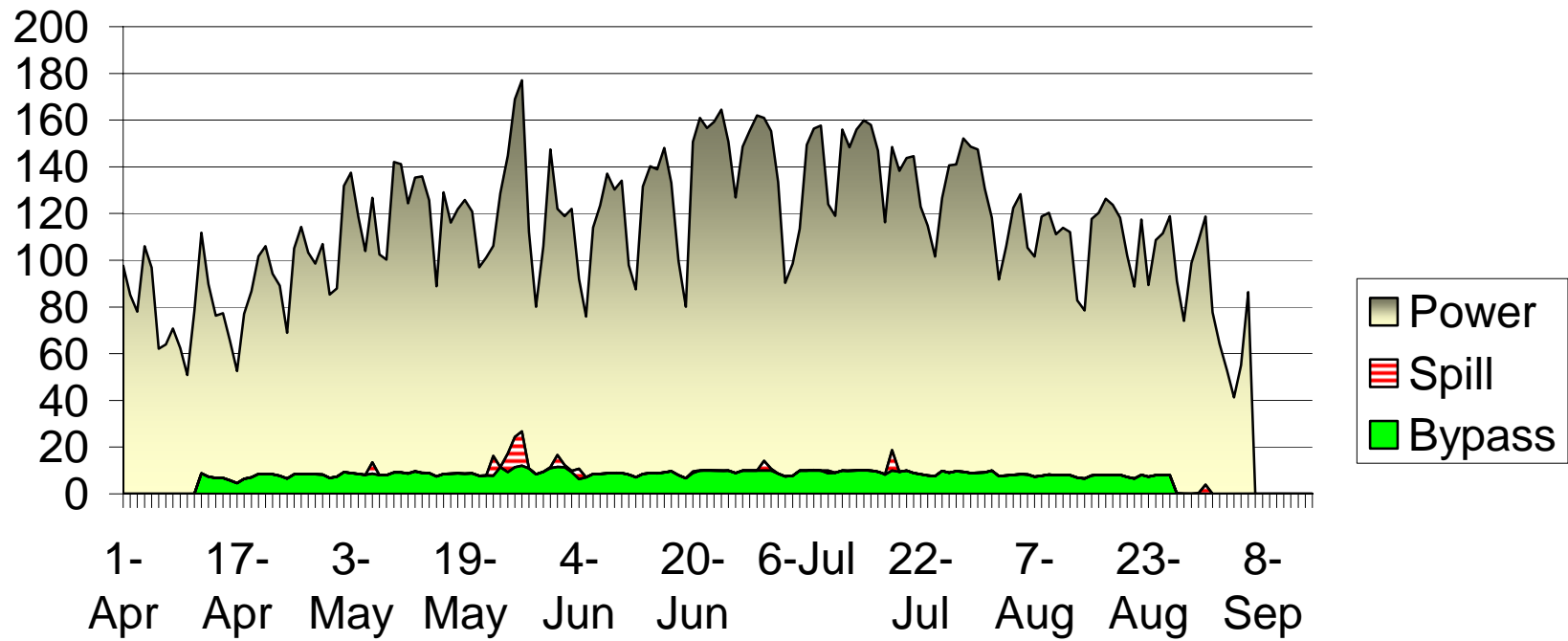
on hatchery and wild juvenile run patterns at Wells Dam. Based upon an analysis of the run-timing information at Wells Dam, the HCP Coordinating Committee agreed to initiate the Wells bypass system on April 12<sup>th</sup>. The analysis indicated that on average initiating the bypass system on April 12<sup>th</sup> would provide a non-turbine passage alternative for 95.5% of the spring migration. Similarly, shutting down the bypass system on August 26<sup>th</sup>, on average would provide consistent bypass operation for more than 95% of the summer migration. The bypass system operated continuously during the transition period between the spring and summer juvenile fish migrations. For accounting purposes, the end to the 2005 spring bypass season was June 13<sup>th</sup> at 2400 hours and the beginning of the summer bypass season was June 14<sup>th</sup> at 0000 hours.

Flows at Wells Dam during the 2005 juvenile plan species migration (April – August) were at 95 percent of the twenty-year average. Operationally, all five bypass bays were available and were utilized as required during the 2005 outmigration. Operation of the bypass system throughout the 2005 season was guided by the bypass operating criteria contained within Section 4.3 of the Wells HCP.

The spring bypass season started on April 12<sup>th</sup> at 0000 hours and operated continuously through June 13<sup>th</sup> at 2400 hours. The spring bypass operated for a total of 63 days and utilized a total discharge of 1.1 MAF, or 7.6% of total project discharge. During the spring bypass operation, there was forced spill during 67 hours or 4.4% of the season. The highest hour of forced spill was on May 27 with 96.8 kcfs spilled. Most of the forced spill observed in 2005 was a result of the District conducting the first year of a two year study to develop relationships between spill, spillway operations, tailwater elevation and observed levels of total dissolved gas in the tailrace of the dam. The highest hourly discharge at the project occurred on May 25<sup>th</sup> at 2100 hours with 221.5 kcfs flowing through the project.

Summer bypass started on June 14<sup>th</sup> at 0000 hours and ran until August 26<sup>th</sup> at 2400 hours, for a total of 74 days. There was 1.3 MAF or 6.8% of the total discharge dedicated to summer bypass. During the summer bypass operating period, there were 26 hours of forced spill.

Enclosures: Figure 1. Daily Average Flows for Power, Bypass and Spill Operations, Wells Dam 2005.



**Figure 1. Daily Average Flows for Power, Bypass and Spill Operations, Wells Dam 2005.**

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**APPENDIX H**  
**BROODSTOCK COLLECTION PROTOCOLS**

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**STATE OF WASHINGTON  
DEPARTMENT OF FISH AND WILDLIFE  
Mid-Columbia Field Office**

3515 Chelan Hwy 97-A Wenatchee, WA 98801 (509) 664-1227 FAX (509) 662-6606

12 May 2005

To: Kristine Petersen, NMFS, Salmon Recovery Division

From: Kirk Truscott, WDFW

Subject: 2005 Upper Columbia River Salmon and Steelhead Broodstock Objectives and Site-based Broodstock Collection Protocols.

ESA Section 10 Permit 1196 stipulates NOAA Fisheries approval of the final broodstock objectives and collection protocols. Attached is the final version of the 2005 Upper Columbia River Salmon and Steelhead Broodstock Objectives and Site-based Broodstock Collection Protocols. The document is essentially the same as the "Draft 2" version submitted to HCP Hatchery Committee members on April 13, 2005; of which I received no comments. The substantive change in the final document is the inclusion of hatchery spring Chinook in the Chiwawa broodstock collection as agreed to in HCP Hatchery Committee conference call on May 10, 2005.

WDFW is requesting NOAA review and approval of the 2005 Upper Columbia River Salmon and Steelhead Broodstock Objectives and Site-based Broodstock Collection Protocols. I have sent to the HCP Hatchery Committee members the Final 2005 Upper Columbia River Salmon and Steelhead Broodstock Objectives and Site-based Broodstock Collection Protocols. I have also requested a consensus decision for the May 18, 2005 HCP Hatchery Committee meeting.

If you have questions, please feel free to contact me.

**STATE OF WASHINGTON**  
**DEPARTMENT OF FISH AND WILDLIFE**  
**Mid-Columbia Field Office**

3515 Chelan Hwy 97-A Wenatchee, WA 98801 (509) 664-1227 FAX (509) 662-6606

12 May 2005

To: Mid-Columbia HCP Hatchery Committee

From: Kirk Truscott

Subject: **FINAL 2005 UPPER COLUMBIA RIVER SALMON AND  
STEELHEAD BROODSTOCK OBJECTIVES AND SITE-BASED  
BROODSTOCK COLLECTION PROTOCOLS**

This protocol was developed for hatchery programs rearing spring Chinook salmon, sockeye salmon, summer Chinook salmon, and summer steelhead associated with the mid-Columbia Habitat Conservation Plans (HCPs) and spring Chinook salmon and steelhead programs associated with the Biological Opinion for Section 7 Consultation of the Interim Operation for the Priest Rapids Hydroelectric Project (FERC No. 2114). These programs are funded by Chelan, Douglas, and Grant County Public Utility Districts (PUDs) and are operated by the Washington Department of Fish and Wildlife (WDFW). Additionally, the Yakama Nation's Coho Reintroduction Program broodstock collection protocol, when provided by the Yakama Nation, will be included in this protocol because of the overlap in trapping dates and locations.

This protocol is intended to be a guide for 2005 collection of salmon and steelhead broodstocks in the Methow, Wenatchee, and Columbia River basins and was developed using run estimates calculated by WDFW. It is consistent with previously defined program objectives such as program operational intent (i.e., conservation and/or harvest augmentation), production level targets, and to comply with ESA permits. This protocol may be adjusted in-season based on actual run monitoring at mainstem dams and other sampling locations.

### **Above Wells Dam**

#### Spring Chinook

Pre-season estimates have 4,573 spring Chinook destined above Wells Dam, 33% or 1,528 are expected to be natural origin. In-season estimates of natural origin spring Chinook to individual tributaries will be adjusted proportional to the estimated returns detailed in Table 2 of the 2005 upper Columbia River Salmon and Steelhead Escapement and

Broodstock Forecast and the total spring Chinook passage at Wells Dam at the 50% and 75% passage dates. Natural origin fish inclusion into the broodstock will be a priority, with natural origin fish specifically being targeted; however, natural origin fish collections will not exceed 33% of the in-season estimated return to any tributary spawning population. All hatchery origin fish retained for broodstock will be adipose present coded-wire tagged.

The Methow Fish Hatchery (FH) rears spring Chinook salmon for three acclimation/release sites on three tributaries of the Methow River; Twisp, Chewuch and Methow Ponds. The total production level target is 550,000 smolts divided equally among the three release sites (183,000 smolts per site).

Broodstock will be collected at the Methow FH outfall and at tributary traps on the Methow, Chewuch, and Twisp rivers. The Twisp Pond release group is limited to releasing progeny of broodstock collected from the Twisp River. The Chewuch Pond prioritizes progeny of Chewuch River collected broodstock, but may include progeny of broodstock collected from the Methow River. Based on these limitations and the assumptions listed below (Table 1), the following broodstock collection protocol was developed.

For the Twisp Pond program, up to 120 spring Chinook salmon may be collected at the Twisp River weir. Trapping will begin on 01 May and is expected to be completed by 06 August. Salmon will be retained across the run, proportionally consistent with estimated run timing. No more than 33% of the natural origin run will be retained for broodstock. The trap schedule will include a 4-days up and 3- days down sequence. Once the weekly retention target is reached, trapping will cease until the beginning of the next week. If a shortfall occurs in the weekly trapping quota, the shortfall will carry forward to the following weeks collection quota. The weir will be manned 24-hours/day during trapping days to facilitate operation to minimize impact to steelhead kelts and spring Chinook fallback. If the new weir design and operation cannot adequately address kelt migration or spring Chinook fallback, trapping will cease and the weir removed.

For the Chewuch Pond program, a total of 120 spring Chinook salmon are needed for broodstock. Collection activities will begin 01 May and are expected to be complete by 06 August. Up to 120 spring Chinook salmon may be collected from the Chewuch River at Fulton Dam. The dam does not block migrating fish and the trap is anticipated to have a low capture rate. The WDFW will also attempt to seine broodstock once a week at locations determined to be effective and where fish can be safely transported to Methow FH. Angling will be used as a last resort if all other methods do not provide adequate broodstock. No more than 33% of the natural origin return will be retained for broodstock. In the event that sufficient broodstock for the Chewuch Program cannot be attained from the Chewuch River, salmon will be collected from the Methow River as described below.

The Methow Pond program requires 120 broodstock. These will be collected at the



Foghorn Dam on the Methow River in combination with the Methow FH outfall to meet the broodstock target. Trapping will begin on 01 May and is expected to be completed by 06 August. Weekly collection targets will be followed to collect from throughout the run. Once the weekly retention target is reached, all salmon will be released until the beginning of the next week. If the Chewuch Pond program is short on broodstock, then the weekly collection target may be adjusted to fill both the Methow and Chewuch broodstock targets.

**Table 1. Assumptions and calculations to determine number of broodstock needed for each tributary release of 183,000 smolts.**

<b>Smolt release</b>		<b>183,000</b>	<b>Smolt release goal</b>
Fertilization-to-release survival	90%	203,333	
ELISA adjustment	15%	35,882	Eggs
<b>Eggtake Target</b>		<b>239,215</b>	<b>Eggs</b>
Fecundity	4,200	57	Females
Female to male ratio	1 to 1	114	
<b>Pre-spawn survival</b>	<b>95%</b>	<b>120</b>	<b>Broodstock collection target</b>

**Steelhead** Steelhead mitigation programs above Wells Dam utilize adult broodstock collections at Wells Dam and incubation/rearing at Wells Fish Hatchery (FH). Based on mitigation program production objectives (Table 2) and program assumptions (Table 3), the following broodstock collection protocol was developed.

Trapping at Wells Dam will selectively retain 389 steelhead (east and west ladder collection). The collection will retain no greater than 33% natural origin broodstock for the mitigation programs and 100% hatchery origin within the Ringold FH production component. No more than 33% of the natural origin return may be retained for broodstock. The east and west ladder trapping at Wells Dam will begin on 01 August and terminate by 31 October and will be operated concurrently three days per week, up to 16 hours per day, if required to meet broodstock objectives. Trapping on the east ladder will be concurrent with summer Chinook broodstocking efforts through 14 September and will continue through 31 October, concurrent with west ladder steelhead collections. Adult return composition including number, origin, age structure, and sex ratio will be assessed in-season at Priest Rapids and Wells dams. Broodstock collection adjustments may be made based on in-season monitoring and evaluation.

**Table 2. Production objectives for programs supported through adult steelhead broodstock**

**collections at Wells Dam.**

<b>Program</b>	<b># Smolts</b>	<b># eyed eggs</b>	<b>% Wild</b>	<b># Wild</b>	<b># Hatchery</b>	<b>Total Adults</b>
DCPUD <sup>1/</sup>	349,000	401,149	33%	59	119	178
GCPUD <sup>1/</sup>	100,000	114,943	33%	17	34	51
USFWS <sup>1/</sup>	100,000	125,000	33%	18	37	55 <sup>3/</sup>
<b>Sub-Total</b>	<b>549,000</b>	<b>641,092</b>	<b>33%</b>	<b>94</b>	<b>190</b>	<b>284</b>
Ringold	180,000	240,000	0%	0	105	105 <sup>3/</sup>
<b>Sub-Total</b>	<b>180,000</b>	<b>240,000</b>	<b>0%</b>	<b>0</b>	<b>105</b>	<b>105</b>
<b>Grand Total <sup>2/</sup></b>	<b>729,000</b>	<b>881,092</b>	<b>24%</b>	<b>94</b>	<b>295</b>	<b>389</b>

<sup>1/</sup>- Above Wells Dam releases. Target HxW parental adults as the hatchery component  
<sup>2/</sup>- Based on steelhead production consistent with Mid Columbia HCP's, GCPUD BiOp and Section 10 Permit 1395.  
<sup>3/</sup>- Based on adults required for eyed egg allotment

**Table 3. Program assumptions used to determine adult collection required to meet steelhead production objectives for programs above Wells Dam and at Ringold Springs Fish Hatchery.**

<b>Program assumption</b>	<b>Standard</b>
Pre-spawn survival	97%
Female to male ratio	1.0 : 1.0
Fecundity	5,400
Propagation survival	
87% fertilization to eyed egg	87%
86% eyed egg to yearling release	86% <sup>1/</sup>
75% fertilization to yearling release	75% <sup>1/</sup>

<sup>1/</sup>- Not applicable to Ringold Springs Fish Hatchery

Summer/fall Chinook

Summer/fall Chinook mitigation programs above Wells Dam utilize adult broodstock collections at Wells Dam and incubation/rearing at Eastbank Fish Hatchery (FH). The total production level target is 976,000 summer/fall Chinook smolts for two acclimation/release sites on the Methow and Similkameen rivers (Carlton Pond and Similkameen Pond, respectively).

Current return projections estimate approximately 13,000 natural origin summer/fall Chinook to migrate past Wells Dam during 2005, providing a high probability of collecting 100% natural origin fish in the broodstock. Review of recent summer/fall Chinook run timing past Wells Dam indicates previous years broodstock collection activities omitted the latter returning summer/fall Chinook. In an effort to incorporate broodstock that better represent the summer/fall Chinook run timing past Wells Dam, the broodstock collection will extend to the third week of September, concurrent with steelhead collections from the east ladder trap. In-season estimates of natural origin Chinook to Wells Dam will be adjusted proportional to the estimated returns detailed in Table 2 of the 2005 upper Columbia River Salmon and Steelhead Escapement and Broodstock Forecast and the total summer/fall Chinook passage at Wells Dam at the 50% and 75% passage dates. Based on initial run projections, program objectives and program assumptions (Table 5); the following broodstock collection protocol was developed.

WDFW will retain 556 natural origin summer/fall Chinook at Wells Dam east ladder. Collection will be proportional to return timing between 01 July and 14 September. Trapping will occur 3-days/week, 16 hours/day. The 3-year old component will be limited to 10% of the broodstock collection. If the probability of achieving the broodstock goal is reduced based on the estimated escapement levels, broodstock composition will be adjusted to meet the broodstock collection objective. No more than 33% the natural origin run will be retained for broodstock.

**Table 5. Assumptions and calculations to determine number of broodstock needed for summer/fall Chinook production at Carlton and Similkameen ponds.**

<u>Program Assumption</u>		<u>Carlton Pond</u>	<u>Similkameen Pond</u>	<u>Total</u>
<b>Smolt release</b>		<b>400,000</b>	<b>576,000</b>	<b>976,000</b>
Fertilization-to-release survival	90%			
<b>Eggtake Target</b>		<b>512,821</b>	<b>738,462</b>	<b>1,251,282</b>
Fecundity	5,000			
<b>Female target</b>		<b>103</b>	<b>147</b>	<b>250</b>
Female to male ratio	1 to 1			
<b>Broodstock target</b>		<b>206</b>	<b>294</b>	<b>500</b>
Pre-spawn survival	90%			
<b>Total collection target</b>		<b>229</b>	<b>327</b>	<b>556</b>

### **Columbia River Mainstem below Wells Dam**

#### Summer/fall Chinook

Summer/fall Chinook mitigation programs that release juveniles directly into the

Columbia River between Wells and Rocky Reach dams are supported through adult broodstock collections at Wells Dam. The total production level supported by this collection is 520,000 yearling and 1,562,000 sub-yearling Chinook.

Adults returning from this program are to support harvest opportunities and are not intended to increase natural production and have been termed segregated harvest programs. These programs have contributed to harvest opportunities; however, adults from these programs have been documented contributing to the adult spawning escapement in tributaries upstream and downstream from their release locations. Because adults from these programs contribute to the natural spawn escapement, the broodstock collection will incorporate 10% natural origin fish into the broodstock to reduce the potential genetic risk to the naturalized summer/fall Chinook stocks in the upper Columbia River region. Based on mitigation objectives and program assumptions (Table 6), the following broodstock collection protocol was developed.

WDFW will collect 1,198 run-at-large summer Chinook including 1,077 hatchery fish from the volunteer ladder trap at Wells Fish Hatchery outfall and 121 natural origin fish from the Wells Dam west ladder. West ladder collections will begin 01 July and completed by 14 September and will be consistent with run timing past Wells Dam. Due to fish health concerns associated with the volunteer collection site, the volunteer collection will begin 10 July and terminate by 31 August, or when the summer Chinook broodstock collection objective is met, which ever is earliest. The 3-year old component will be limited to 10% of the broodstock collection to minimize the retention of surplus males.

**Table 6. Assumptions and calculations to determine number of broodstock needed for summer/fall Chinook production at Wells and Turtle Rock Island hatcheries.**

Program Assumption	<u>Standard</u>		<u>Wells FH</u>		<u>Turtle Rock FH</u>		<u>Lake Chelan</u> <sup>1/</sup>	<u>Total</u>		Total
	Sub-yearling	Yearling	Sub-yearling	Yearling	Sub-yearling	Yearling	eye-egg	sub-yearling	Yearling	
Smolt release			484,000	320,000	1,078,000	200,000	NA	1,562,000	520,000	2,082,000
Fertilization-to-release survival	81%	78%					NA			
Eggtake Target			597,531	410,256	1,330,864	256,410	100,000	1,928,395	666,667	2,695,062
Fecundity	5,000	5,000								
Female target			120	82	266	51	20	386	133	539
Female to male ratio	1 to 1	1 to 1								
Broodstock target			240	164	532	102	40	772	266	1,078
Pre-spawn survival	90%	90%								
<b>Total collection target</b>			<b>267</b>	<b>182</b>	<b>591</b>	<b>113</b>	<b>44</b>	<b>858</b>	<b>296</b>	<b>1,198</b>

<sup>1/</sup> Lake Chelan eggs will be incorporated into the last egg take and incubated at Wells Hatchery until eyed stage and then shipped to the Lake Chelan RSI program.

Coho

Yakama Nation will provide broodstock collection objectives for the coho reintroduction program in the Methow River basin. WDFW will work collaboratively with the Yakama

Nation to facilitate coho collections at Wells Dam.

## **Wenatchee River Basin**

### Spring Chinook

Pre-season estimates have 6,111 spring Chinook destined for the Chiwawa River, 56% or 3,445 are expected to be natural origin. In-season estimates of natural origin Chinook to the Chiwawa River will be adjusted proportional to the estimated returns detailed in Table 2 of the 2005 upper Columbia River Salmon and Steelhead Escapement and Broodstock Forecast and the total spring Chinook passage at Tumwater Dam at the 25%, 50% and 75% passage dates. Spring Chinook returns to the Columbia River through 09 May were approximately 20% of the pre-season forecast. The Technical Advisory Committee (TAC) has revised the projected total return estimated at 73,000-88,000 fish or approximately 33% of the pre-season forecast.

The Eastbank Fish Hatchery (FH) rears spring Chinook salmon for the Chiwawa River acclimation pond located on the Chiwawa River. The 2005 BY total production level target is 672,000 smolts.<sup>1/</sup> Natural origin fish inclusion into the broodstock will continue to be a priority, with natural origin fish specifically being targeted. Natural origin fish collections will not exceed 33% of the in-season estimated return to the Chiwawa River and will provide, at a minimum, 33% of the total broodstock retained. Based on these limitations and the assumptions listed below (Table 7), the following broodstock collection protocol was developed.

WDFW will retain 379 natural and coded-wire tagged hatchery origin spring Chinook from Tumwater Dam and the Chiwawa weir. Initially, 40 coded-wire tagged hatchery origin Chinook will be retained from Tumwater Dam. No additional hatchery origin Chinook will be retained at Tumwater Dam or Chiwawa weir until 20 natural origin Chinook have been retained at the Chiwawa weir. In-season assessment of the magnitude and composition of the spring Chinook return above Tumwater Dam will be used to determine the appropriate number of coded-wire tagged hatchery origin fish to include in the broodstock, consistent with a minimum 33% natural origin composition in the broodstock.

Trapping at Chiwawa weir will begin 01 June and terminate no later than 10 September. Spring Chinook trapping at the Chiwawa weir will follow a 4-days up and 3-days down schedule, consistent with weekly broodstock collection quotas that approximate the historical run timing and a maximum 33% retention of the projected natural origin escapement to the Chiwawa River.

*1/- Based on concurrence (agreement/decision) in the Chelan HCP Hatchery Committee, outyear production may be reduced to 298,853 yearling smolts.*

If the weekly quota is attained prior to the end of the 4-day trapping period, trapping will cease. If the weekly quota is not attained within the 4-day trapping period, the shortfall will carry forward to the next week. Retention of coded-wire tagged hatchery origin spring Chinook at Tumwater Dam will begin 16 May and will be concurrent with the

trapping efforts associated with the Spring Chinook Reproductive Success Program. Spring Chinook retained will be transferred to Eastbank Fish Hatchery (FH) for holding in well water.

All bull trout trapped at the Chiwawa weir will be transported by tank truck and released into a resting/recovery pool at least 1.0 km upstream from the Chiwawa River weir.

<b>Program Assumption</b>	<b>Standard</b>	<b>Chiwawa program</b>
<b>Smolt release</b>		<b>672,000</b>
Fertilization-to-release survival	83%	
<b>Eggtake Target</b>		<b>809,639</b>
Fecundity	4,400	
<b>Female target</b>		<b>184</b>
Female to male ratio	1 to 1	
<b>broodstock target</b>		<b>368</b>
Pre-spawn survival	97%	
<b>Total broodstock collection</b>		<b>379</b>

Steelhead

Current estimated upper Columbia River steelhead run size is sufficient to provide the 208 adult steelhead broodstock required to meet the Wenatchee Basin production objective of 400,000 smolts. The steelhead mitigation program in the Wenatchee Basin use broodstock collections at Dryden and Tumwater dams located on the Wenatchee River. Broodstock collection will target 50% natural origin fish and 50% hatchery origin fish, not to exceed 33% of the natural origin steelhead return to the Wenatchee Basin. Based on these limitations and the assumptions listed below (Table 8), the following broodstock collection protocol was developed.

WDFW will retain 208 mixed origin, steelhead at Dryden and Tumwater dams. Collection will be proportional to return timing between 01 July and 12 November. Collection may also occur between 13 November and 3 December at both traps, concurrent with the Yakama Nation coho broodstock collection activities. To attain weekly broodstock collection objectives, Dryden Dam may be operated 7-days/week, 24-hours/day and Tumwater Dam may be operated 3-days/week, up to 16-hours/day. Hatchery x hatchery parental cross, and unknown hatchery parental cross adults will be excluded from the broodstock collection. Hatchery steelhead parental origins will be determined through evaluation of VIE tags during collection.

In the event that steelhead collections fall substantially behind schedule, WDFW may capture some adult steelhead from the mainstem Wenatchee River by hook and line. Prior to hook and line collections, the JFP will be notified. In addition to trapping and hook and line collection efforts, Tumwater Dam may be operated between February and early April to supplement broodstock numbers if the fall trapping effort provides fewer

than 208 adults.

<b>Table 8. Assumptions and calculations to determine number and origin of adult steelhead needed for Wenatchee Basin Steelhead program release of 400,000 smolts.</b>		
<b>Program Assumption</b>	<b>Standard</b>	<b>Wenatchee program</b>
<b>Smolt release</b>		<b>400,000</b>
Fertilization-to-release survival	75%	
<b>Eggtake Target</b>		<b>533,333</b>
Fecundity	5,400	
<b>Female target</b>		<b>99</b>
Female to male ratio	1 to 1	
<b>broodstock target</b>		<b>198</b>
Pre-spawn survival	95%	
<b>Total broodstock collection</b>		<b>208</b>
Natural : hatchery ratio	1 to 1	
<b>Natural origin collection total</b>		<b>104</b>
<b>Hatchery origin collection total</b>		<b>104</b>

Summer/fall Chinook

Summer/fall Chinook mitigation programs in the Wenatchee River Basin utilize adult broodstock collections at Dryden and Tumwater dams, incubation/rearing at Eastbank Fish Hatchery (FH) and acclimation/release from the Dryden Acclimation Pond. The total production level target is 864,000 smolts.

Current return projections estimate approximately 8,500 natural origin summer/fall Chinook will return to the Wenatchee Basin during 2005, providing a moderate/high probability of collecting 100% natural origin fish in the broodstock. Review of recent summer/fall Chinook run-timing past Dryden and Tumwater dam indicates that previous broodstock collection activities have omitted the early returning summer/fall Chinook, primarily due to limitations imposed by ESA Section 10 Permit 1347 to minimize impacts to listed spring Chinook. In an effort to incorporate broodstock that better represent the summer/fall Chinook run timing in the Wenatchee Basin, the broodstock collection will front-load the collection to account for the disproportionate collection timing. Approximately 43% of the summer/fall Chinook passage to the upper Basin occurs prior to the end of the first week of July; therefore, the collection will provide 43% of the objective by the end of the first week of July. Weekly collection after the first week of July will be consistent with run timing of summer/fall Chinook during the remainder of the trapping period. Collections will be limited to a 33% extraction of the estimated natural origin escapement to the Wenatchee Basin. Based on these limitations and the assumptions listed below (Table 9), the following broodstock collection protocol was developed.

WDFW will retain 492-natural origin, summer Chinook at Dryden and Tumwater dams. Trapping at Dryden Dam will begin 01 July and terminate no later than 31 August and operate up to 7-days/week, 24-hours/day. Trapping at Tumwater Dam may begin 15 July and terminate no later than 31 October and operate 3-days/week, 8-hours/day. Up to 25% (123) of the total broodstock collection may occur at Tumwater Dam. No selection for male or female will occur during collection with the exception of limiting the 3-year old component to 10% of the broodstock total.

If the probability of achieving the broodstock goal is reduced, based on the estimated escapement levels, broodstock composition will be adjusted to meet the broodstock collection objective of 492 fish.

<b>Table 9. Assumptions and calculations to determine number of summer Chinook broodstock needed for Wenatchee Basin program release of 864,000 smolts.</b>		
<b>Program Assumption</b>	<b>Standard</b>	<b>Wenatchee program</b>
<b>Smolt release</b>		<b>864,000</b>
Fertilization-to-release survival	78%	
<b>Eggtake Target</b>		<b>1,107,692</b>
Fecundity	5,000	
<b>Female target</b>		<b>221</b>
Female to male ratio	1 to 1	
<b>broodstock target</b>		<b>442</b>
Pre-spawn survival	90%	
<b>Total broodstock collection</b>		<b>492</b>

Sockeye

Sockeye Salmon mitigation in the Wenatchee River Basin utilizes adult broodstock collections at Tumwater Dam, incubation/rearing at Eastbank Fish Hatchery (FH) and rearing/pre-smolt releases from the net pens in Lake Wenatchee. The total production level for the 2005 BY is 200,000 pre-smolts. <sup>1/</sup>

Current return estimates have approximately 30,000 Lake Wenatchee sockeye returning to the Columbia River in 2005, providing a high probability of maintaining a broodstock collection goal of 100% natural origin fish. Based on projected return, 100% natural origin broodstock composition and assumptions listed below (Table 10), the following broodstock collection protocol was developed.

*1/- Chelan HCP Hatchery Committee has agreed to future production level of 280,000 fish, pending appropriate infrastructure improvements.*

WDFW will retain 218 natural origin sockeye, proportional to run timing at Tumwater Dam. Due to the unequal sex ratio in previous years, attempts will be made to collect an equal number of males and females. Trapping may begin on 15 July and terminate by 15



August. Trapping will occur no more than 3-days/week, 8- hours/day.

If the probability of achieving the broodstock goal is reduced, based on the estimated escapement levels, broodstock number and composition will be adjusted consistent the retention of 218 sockeye with no more than 10% of the broodstock composed of adipose absent hatchery origin fish and an overall broodstock collection of no more than 10% of the total return past Tumwater Dam.

<b>Table 10. Assumptions and calculations to determine number of sockeye salmon broodstock needed for Wenatchee Basin program release of 200,000 pre-smolts.</b>		
<b>Program Assumption</b>	<b>Standard</b>	<b>Wenatchee program</b>
<b>Smolt release</b>		<b>200,000</b>
Fertilization-to-release survival	80%	
<b>Eggtake Target</b>		<b>250,000</b>
Fecundity	2,594	
<b>Female target</b>		<b>97</b>
Female to male ratio	1 to 1	
<b>broodstock target</b>		<b>194</b>
Pre-spawn survival	89%	
<b>Total broodstock collection</b>		<b>218</b>

Coho

Yakama Nation will provide broodstock collection objectives and program assumptions for the coho reintroduction program in the Wenatchee River basin. WDFW will work collaboratively with the Yakama Nation to facilitate coho broodstock collections at Dryden and Tumwater dams.

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**APPENDIX I**

**BULL TROUT MONITORING AND MANAGEMENT PLAN**

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**WELLS HYDROELECTRIC PROJECT BULL TROUT MONITORING AND  
MANAGEMENT PLAN, 2004-2008**



Wells Hydroelectric Project No. 2149

December 29, 2004  
Draft No. 2

Public Utility District No. 1 of Douglas County  
East Wenatchee, Washington

## SECTION 1: Introduction/Consultation History

In August 1993, Douglas, Chelan, and Grant PUDs (collectively, “Mid-Columbia PUDs”) initiated discussions to develop a long-term, comprehensive program for managing fish and wildlife that inhabit the mid-Columbia River basin (the portion of the Columbia River from the tailrace of Chief Joseph Dam to the confluence of the Yakima and Columbia rivers).

These discussions first explored the possibility of developing an ecosystem-based plan for managing fish and wildlife resources inhabiting the mid-Columbia River basin, but because of the immense breadth of this type of plan the negotiating parties decided to focus on an agreement for aquatic species inhabiting the mid-Columbia River basin including fish, plants and animals. After extensive review, the negotiating parties further concluded, given the likelihood that certain species of salmon and steelhead would be listed in the near future under the Endangered Species Act (ESA) and given the lack of information regarding the other aquatic species, that the best basin-wide approach would be to develop an agreement for anadromous salmonids, specifically: spring, summer/fall Chinook salmon (*O. tshawytscha*); sockeye salmon (*O. nerka*); coho salmon (*O. kisutch*); and steelhead (*O. mykiss*) (collectively, “Plan Species”) which are under the jurisdiction of the National Marine Fisheries Service (NMFS).

On July 30, 1998, following five years of negotiations, Douglas PUD, which operates the Wells Hydroelectric Project (Project), submitted an unexecuted form of an Application for Approval of the Wells Anadromous Fish Agreement and Habitat Conservation Plan (the “HCP Agreement”) to the Federal Energy and Regulatory Commission (FERC) and to NMFS. Furthermore, to expedite the ability of FERC to complete formal consultation, biological evaluations of the effects of implementing the Habitat Conservation Plan (HCP) on listed species under the jurisdiction of the US Fish and Wildlife Service (Service) were prepared by Douglas PUD.

In a letter to the Federal Energy Regulatory Commission (FERC), the Service requested consultation under Section 7 of the ESA regarding the effects of hydroelectric project operations on bull trout in the Columbia River (letter from M. Miller, USFWS, to M. Robinson, FERC, dated January 10, 2000). The request for consultation was based on observations of bull trout in the study area. In its reply to the Service, FERC noted that there was virtually no information on bull trout in the mainstem Columbia River.

On December 10, 2003, the Service received a request from FERC for formal consultation to determine whether the proposed incorporation of the HCP Agreement into the FERC license for operation of the Wells Hydroelectric Project was likely to jeopardize the continued existence of the Columbia River distinct population segment (DPS) of ESA-listed bull trout (*Salvelinus confluentus*), or destroy or adversely modify proposed bull trout critical habitat. In response to the FERC request, the Service submitted a Biological Opinion (BO) and issued an Incidental Take Permit (ITP) to Douglas PUD. On June 21, 2004, FERC issued an order incorporating the HCP Agreement and the bull trout BO into the FERC license for the Wells Project.

This document outlines the goals, objectives and implementation strategy for the newly created Wells Bull Trout Management Plan (WBTMP). The proposed WBTMP is intended to monitor and evaluate bull trout presence in the Project area and quantify and address, to the extent feasible, potential project-related impacts on bull trout from Project operations and facilities.

## **SECTION 2: Biology and Life History**

### **2.1 Biology**

Bull trout are native to northwestern North America, historically occupying a large geographic range extending from California north into the Yukon and Northwest Territories of Canada, and east to western Montana and Alberta (Cavender 1978). They are generally found in interior drainages, but also occur on the Pacific Coast in Puget Sound and in the large drainages of British Columbia.

Bull trout currently occur in lakes, rivers and tributaries in Washington, Montana, Idaho, Oregon (including the Klamath River basin), Nevada, two Canadian Provinces (British Columbia and Alberta), and several cross-boundary drainages in extreme southeast Alaska. East of the Continental Divide, bull trout are found in the headwaters of the Saskatchewan River in Alberta, and the McKenzie River system in Alberta and British Columbia (Cavender 1978; McPhail and Baxter 1996; Brewin and Brewin 1997). The remaining distribution of bull trout is highly fragmented.

Bull trout are members of the char group within the family Salmonidae. Bull trout closely resemble Dolly Varden (*Salvelinus malma*), a related species. Genetic analyses indicate, however, that bull trout are more closely related to an Asian char (*Salvelinus leucomaenis*) than to Dolly Varden (Pleyte et al. 1992). Bull trout are sympatric with Dolly Varden over part of their range, most notably in British Columbia and the Coastal-Puget Sound region of Washington State.

Bull trout are believed to have more specific habitat requirements than other salmonids (Rieman and McIntyre 1993). Growth, survival, and long-term persistence are dependent upon habitat characteristics such as cold water, complex instream habitat, a stable substrate with a low percentage of fine sediments, high channel stability, and stream/population connectivity. Stream temperature and substrate type, in particular, are critical factors for the sustained long-term persistence of bull trout. Spawning is often associated with the coldest, cleanest, and most complex stream reaches within basins. However, bull trout may exhibit a patchy distribution, even in pristine habitats (Rieman and McIntyre 1995), and should not be expected to occupy all available habitats at the same time (Rieman et al. 1997).

### **2.2 Life History**

Bull trout exhibit four distinct life history types: resident, fluvial, adfluvial, and anadromous. The fluvial, adfluvial, and resident forms exist throughout the range of the bull trout (Rieman and McIntyre 1993). These forms spend their entire life in freshwater. The anadromous life history form is currently known only to occur in the Coastal-Puget Sound region within the coterminous United States (Volk 2000; Kraemer 1994; Mongillo 1993). Multiple life history types may be expressed in the same population, and this diversity of life history types is considered important to the stability and viability of bull trout populations (Rieman and McIntyre 1993).

The majority of growth and maturation for anadromous bull trout occurs in estuarine and marine waters, adfluvial bull trout in lakes or reservoirs, and fluvial bull trout in large river systems. Resident bull trout populations are generally found in small headwater streams where fish remain their entire lives.

For migratory life history types, juveniles tend to rear in tributary streams for 1 to 4 years before migrating downstream into a larger river, lake, or estuary and/or nearshore marine area to mature (Rieman and McIntyre 1993). In some lake systems, age 0+ fish (less than 1 year old) may migrate directly to lakes (Riehle et al. 1997). Juvenile and adult bull trout in streams frequently inhabit side channels, stream margins and pools with suitable cover (Sexauer and James 1993) and areas with cold hyporheic zones or groundwater upwellings (Baxter and Hauer 2000).

### **2.3 Species Status**

On June 10, 1998, the Service listed bull trout (*Salvelinus confluentus*) within the Columbia River basin as threatened under the Endangered Species Act (ESA) (50 CFR 63(111)). Later (November 1, 1999), the Service listed bull trout within the coterminous United States as threatened under the ESA (50 CFR 64(21)). The Service identified habitat degradation, fragmentation and alterations associated with dewatering, road construction and maintenance, mining, and grazing; blockage of migratory corridors by dams or other diversion structures; poor water quality; incidental angler harvest; entrainment into diversion channels; and introduced non-native species as major factors affecting the distribution and abundance of bull trout. They noted that dams (and natural barriers) have isolated population segments resulting in a loss of genetic exchange among these segments (50 CFR 63(111):31657). The Service believes many populations are now isolated and disjunct.

## **SECTION 3: Project Specific Studies**

### **3.1 Project Description**

The Wells Hydroelectric Project is located on the mainstem Columbia River at RM 515.8, approximately 12 miles north of the city of Chelan, Washington (Figure 1). The dam spans 4,460 feet, with the hydrocombine structure (spillway, turbine and fishways combined into one structure) comprising 1,130 feet. Wells Dam is a 185 foot high concrete gravity dam completed in 1967. The reservoir formed by the project extends upstream 29.5 miles, past the cities of Pateros, Brewster and Bridgeport and up to the Army Corps of Engineer's Chief Joseph Dam, totaling 331,200 acre feet of water, and having a surface area of 9,740 acres at the normal pool elevation of 781 feet above msl.

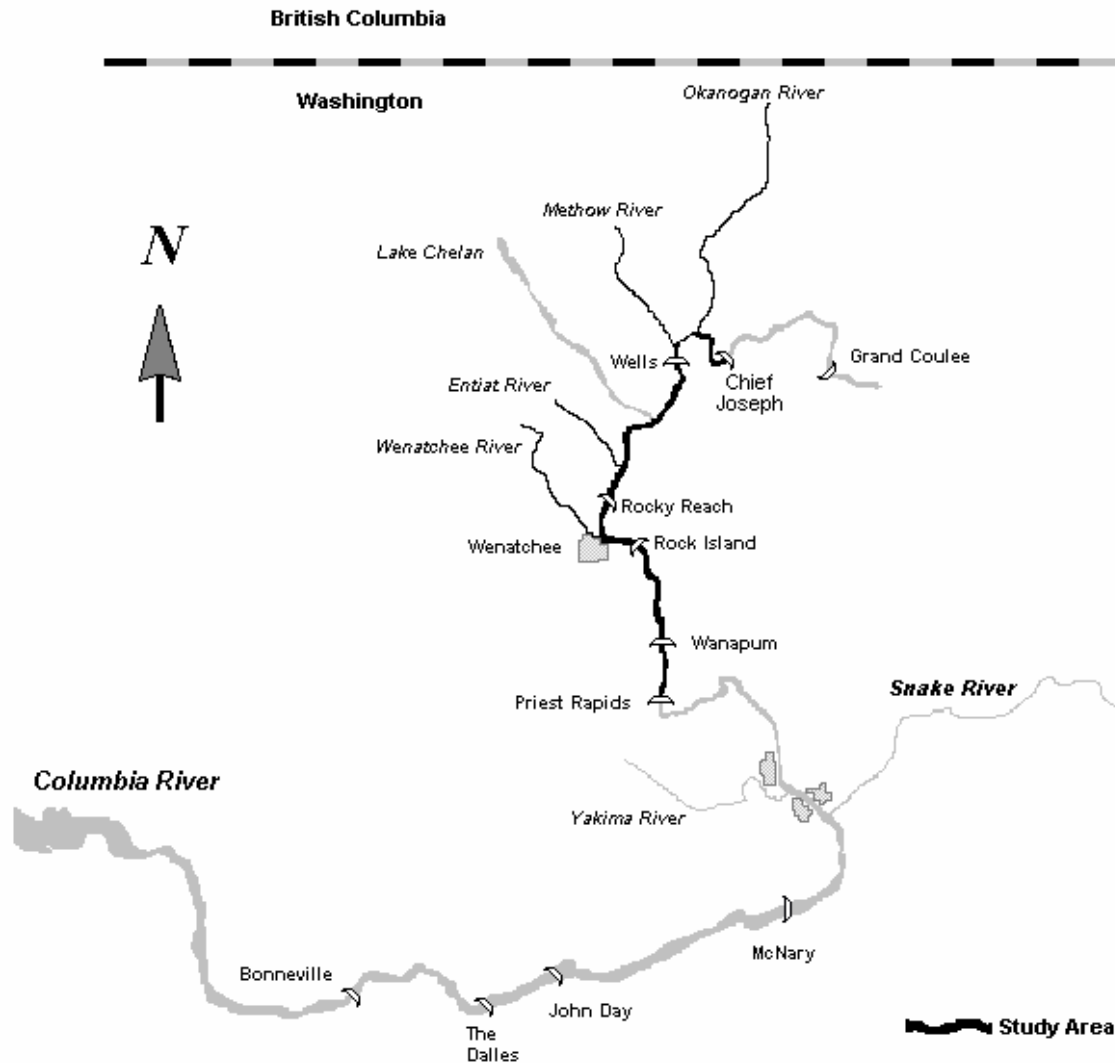
The project includes a spillway, powerhouse, an earthen embankment section, a juvenile bypass system and two adult fishways. The spillway consists of 11 spillway gates with a combined capacity of 1,180 kcfs. The powerhouse has 10 Kaplan turbine units, equipped with minimum gap turbine runners to increase protection for juvenile salmonids during turbine passage, with a combined hydraulic capacity of 205 kcfs and a peak generating capacity of 840 MW of electricity. The two adult fishways are mirror image left and right bank fishway facilities. Each of the two fishways contains a single main entrance, a collection gallery, a fish ladder, adult count station, trapping facilities and an exit in the forebay. The juvenile bypass system consists of five evenly spaced surface collector entrances that guide fish into and through the juvenile bypass system and into the tailrace of the dam.

### **3.2 Bull Trout Study at Wells**

Columbia River bull trout are listed as threatened under the ESA (50 CFR 63(111):31651). Listed Columbia River bull trout have been observed and counted at Wells Dam since 1998. Because of the potential for operations at the to dam to affect the movement and survival of bull trout, in 2000 the Service requested that the mid-Columbia PUDs evaluate the movement and status of bull trout in the project area. At that time little was known about the life-history characteristics (e.g., movements, distribution, habitat use, etc.) of bull trout in the mid-Columbia River. Therefore, in order to assess the operational effects of hydroelectric projects on bull trout within the mid-Columbia, a three PUD (Grant, Chelan and Douglas PUDs) radio-telemetry study was implemented beginning in 2001. The goal of the study was to monitor the movements and migration patterns of adult bull trout in the mid-Columbia River (Figure 1). The number of trout to be collected and tagged at each dam (Rock Island, Rocky Reach, and Wells) was based on the proportion of fish that migrated past those dams in 2000.

Bull trout at Wells Dam were trapped at the brood-stock collection facility located within the left bank ladder. The brood-stock collection facility is located at pool 40 about half way up the fish ladder. The trap was operated by placing a barrier fence across the entire width of the pool. When the trap was in operation, all fish attempting to ascend the left bank ladder are blocked by the barrier fence and forced to ascend the off-ladder trap via a steep-pass denil that leads to an upwell enclosure. Once inside the upwell enclosure, fish moved down a sorting chute by jets of water introduced near the top of the chute. As





**Figure 1:** Study area for assessing migration patterns of bull trout in the mid-Columbia River. Fixed radio-telemetry sites monitored the movement of bull trout near Priest Rapids, Wanapum, Rock Island, Rocky Reach and Wells dams. Fixed sites placed in the Wenatchee, Entiat, Methow and Okanogan rivers monitored time of entry and exodus of bull trout in large tributaries of the mid-Columbia River.

the fish move down the chute, they were identified and either diverted into the holding tank or allowed to pass upstream of the trap. When a bull trout was observed in the chute, a technician activated a pneumatic gate diverting the fish into a 2,270-liter holding tank. Non-target species and small bull trout (<40 cm fork length) were shunted back to the ladder upstream of the trapping barrier. The fish ladder supplied the holding tank with freshwater at a rate of 114 to 151 L/hr to maintain adequate dissolved oxygen and temperature levels. At the time of tagging, bull trout were netted from the holding vessel and transferred to an anesthetic vessel containing an 80 mg/L solution of MS-222. Once anesthetized, fish were transferred to a mobile surgical station for further processing.

The surgical procedures employed were nearly identical to the methods described in Summerfelt and Smith (1990), with some modifications based on consultation with the Service. Bull trout were anesthetized in a pre-operative solution of MS 222 at a concentration of 80 mg/L. Service biologists found that 80 mg/L of MS 222 for initial induction, followed by a concentration of 40 mg/L during surgery was adequate to maintain anesthesia during implantation of transmitters in bull trout (J. De La Vergne, USFWS, personal communication). Before preparation of the pre-operative solution of MS-222, the water was sampled for pH. If the solution was acidic (pH<7.0), it was buffered with sodium bicarbonate to maintain a pH of 7, thereby reducing physiological stress associated with anesthesia (Wedemeyer 1970). After sedation, the fish was weighed, measured, and a genetic sample was taken from the upper lobe of the caudal fin. In addition, several scales were collected for age analysis from all bull trout collected. Scale analysis was performed by the Washington Department of Fish and Wildlife. Genetic samples were preserved and provided to the Service.

After the fish had recovered, the fish were loaded into the transport vessel. The transport vessel was simultaneously supplied with air delivered through an air stone. Once inside the transport vessel the fish were loaded into the truck and quickly transported to the release site. At the release site, the air stone was removed and the transport vessel was placed into the river. Upon release, the water temperature at the release site and inside the vessel was recorded. The vessel was then gently rolled onto its side and the lid was opened allowing the fish to swim free of the vessel. The swimming behavior of the fish was observed and any abnormalities were noted.

At the request of the Service, half of the radio-tagged fish were released downstream from the dam and the other half released upstream of the dam. The purpose of this release strategy was to increase the sample size of fish ascending the ladder systems at each of the projects where fish were collected and tagged. For fish released upstream from the dam, the fish were released as close to the dam as possible, while still ensuring that the fish were released well outside of the influence of the forebay hydraulics including spill and bypass entrainment flows.

Multiple-telemetry techniques were used to assess the movement of tagged bull trout within the study area. At Wells Dam, a combination of aerial and underwater antennas were deployed. The primary purpose for this system was to document the presence of bull trout at the project, identify passage times and determine their direction of travel

(upstream/downstream). In addition to these systems, a number of additional telemetry systems were deployed to address specific questions posed by the Service and Douglas PUD. At Wells Dam, several additional systems were installed to identify tagged bull trout that could enter, ascend, and exit specific gates and fish ladders. All possible access points to the adult fish ladders and the exits were monitored individually in 2001, 2002 and 2003, allowing the route of passage to be determined as well as the ability to establish the exact time of entrance and exit from the ladder system. English et al. (1998, 2001) provided a detailed description of the telemetry systems at each of the dams and within the tributaries.

To assess bull trout movements into and out of the Wells reservoirs, fixed-telemetry monitoring sites were established at the mouth of the Methow and Okanogan rivers and periodic aerial surveys were conducted on the reservoir and throughout both watersheds (see English et al. 1998, 2001).

### **Key Findings to Date**

- Total upstream fishway counts (May 1<sup>st</sup> to November 15<sup>th</sup>) at Wells Dam from 2000 to 2003 were 90, 107, 76, and 53 bull trout, respectively.
- Adult bull trout make migrations upstream through Wells Dam from May through November. Peak movement occurs in May and June with 94, 95, 92, and 89 percent of adult bull trout being detected during these months at Wells Dam for years 2000-2003, respectively.
- Tagged migratory adult bull trout successfully move both upstream and downstream past the Project (radio-telemetry). From the 79 bull trout radio tagged in 2001 and 2002 at Rock Island, Rocky Reach, and Wells, five bull trout passed downstream through Wells Dam with no mortality. Twelve downstream passage events occurred at Rocky Reach (4) and Rock Island (8) through turbines from 2001 to 2003. None of the 17 observed downstream passage events resulted in injury or mortality to bull trout. A downstream passage event was assessed as the detection of a fish downstream from the dam after the fish had recently exited the ladder system.
- Between 2001-2003, a total of 10 (2 tagged at Rock Island, 4 Rocky Reach, 4 Wells), 11 ( 5 Rocky Reach, 4 Wells, 2 from 2001), and 1 (1 Wells) tagged bull trout were detected moving upstream of the Wells project, respectively.
- Median tailrace times (tailrace detection to ladder entrance detection) during the telemetry study at Wells in 2001-2003 were 1.53, 7.84, and 1.00 days, respectively. Median travel times (tailrace detection to ladder exit detection) during the telemetry study at Wells in 2001-2003 were 8.87, 7.60, and 1.16 days, respectively. Median ladder passage times (entrance detection to ladder exit detection) during the telemetry study at Wells in 2001-2003 were 5.70, 0.23, and 0.16 days, respectively.

- Adult bull trout migrating upstream of Wells Dam appear to be destined for the Methow River. Between 2001-2003, no bull trout selected the Okanogan system (one trout moved into the Okanogan, but left shortly thereafter and moved into the Methow system).
- Median travel time from Wells Dam (detection at ladder exit) to first detection in the Methow River in 2001-2003 was 0.40, 2.78, and 1.09 days, respectively.
- All tributary entrance events (fixed station detections) into the Methow River by bull trout (28 total events, 2001-2003) occurred before June 27. An additional two bull trout, not detected by the tributary fixed station systems, were detected in the Methow River via 2002 aerial surveys. Bull trout in the Methow system selected two primary areas, the mainstem Methow River and the Twisp River.
- To date, 30% (9/30) of bull trout that entered the Methow River have been detected leaving the system.
- It appears that no radio tagged bull trout were injured at the dams or in the reservoirs due to project effects during telemetry monitoring in 2001, 2002, and 2003.
- Bull trout migrating upstream through Wells Dam in 2001 were 5 year old (n=2, mean fork length=55.6cm) and 6 year old (n=6, mean fork length= 54.6cm) fish as determined by scales.
- 92% (11/12) and 53% (8/15) of tagged bull trout detected in the vicinity of Wells Dam entered the Wells Hatchery Outfall in 2001 and 2002, respectively. It is possible that the bull trout frequented the outfall in search of prey. Typical operation at the hatchery is to volitionally release yearling chinook smolts between 15 and 30 April, and subyearling chinook smolts in early June. Given that bull trout feed opportunistically (Goetz 1989), it is likely that the tagged bull trout were taking advantage of the large concentration of juvenile salmonids within the hatchery outfall system.

## **SECTION 4. BULL TROUT MANAGEMENT PLAN**

### **4.1 Plan Goal**

The goal of the Wells Bull Trout Management Plan is to: identify, develop, and implement measures to monitor and address potential project-related impacts on bull trout from Wells Project operations and facilities. This Plan is intended to be an adaptive approach, where strategies for meeting the goals and objectives may be negotiated under a collaborative effort with stakeholders based on new information and ongoing monitoring results.

Through monitoring and implementation of WBTMP measures, this plan is designed specifically to (1) address ongoing project-related impacts through the life of the existing operating license; (2) provide consistency with recovery actions as outlined in the Service's draft bull trout recovery plan; and (3) monitor and minimize the extent of any incidental take of bull trout consistent with Section 7 of the Endangered Species Act.

### **4.2 Protection, Monitoring, and Evaluation Measures**

Douglas PUD proposes to utilize the management strategies outlined in this section to meet the protection, monitoring, and evaluation (PME) measures outlined in the 2004 BO for bull trout and will simultaneously address potential project-related impacts on bull trout for the duration of the existing license as required by license articles 61, 62 & 63. The PME measures will also be consistent with the overall USFWS bull trout recovery plan and with Section 7 of the Endangered Species Act.

#### **Bull Trout Monitoring and Evaluation Program**

##### **Objective 1**

Identify potential project-related impacts on upstream and downstream passage of adult bull trout through the Wells Dam and reservoir and implement appropriate measures to monitor any incidental take of bull trout.

##### **Strategies for Objective 1**

*Strategy 1-1: Implement an adult bull trout telemetry program to monitor adult upstream and downstream passage in the Project Area and implement appropriate measures to monitor any incidental take of bull trout.*

- For purposes of monitoring any incidental take, capture and insert active tags (2 year radio tags, plus PIT tags) in 10 adult bull trout (represents about 13% of the average annual ladder count May – July, 2000-2003) from May 2005 through July 2007 (three years of tagging). All tagged fish will be released upstream of Wells Dam, and each fish will be counted as one successful adult fishway passage event for the year it is tagged. Because of variable tag retention times in individual fish,

and inherent inconsistencies in transmitter battery life, take levels will be calculated using data from only the first year (365 days) of tag life for each tagged fish. Tag detections occurring outside of this period will not be used for take monitoring, but will continue to be compiled (through July 2008) to assist the Service with characterizing movements of bull trout in the mainstem.

- Install and maintain receiver arrays necessary to adequately monitor upstream and downstream passage through Wells Dam for 3 years from 2005 – 2008.
- Track and monitor monthly movements of tagged fish from May 2005 through July 2008 while in the Project area (dam and reservoir) until a tributary entrance is observed. Continue tracking all fish that re-enter the reservoir. Fixed receiver sites will be operated to detect any upstream and downstream movement at the dam and tributary entrances. Appropriate mobile tracking methods may include aircraft, boat, and/or vehicle surveys.
- Evaluate upstream and downstream tag detection data from May 2005 through July 2008 to determine status of tagged individuals.
- Compile tracking data to adequately determine fish locations, tag status, and the need to deploy tag recovery operations in the Wells Project area.
- Include upstream and downstream passage results to calculate a 6-year-average incidental take level for the Project in year 2008 by averaging the annual observed take levels for both the 2001 – 2003 3-year study and from the May 2005-July 2008 3-year study. Total Project effect will be calculated for each passage route where feasible, by dividing the number of tagged fish “taken” via that route, by the total number of radio tagged fish. EXAMPLE: If in the first year, 30 fish are tagged and one (1) bull trout is determined to be injured or killed during downstream passage through the dam in that monitoring year, then that year’s contribution to the 6-year take average would be  $1/52$  ( $30+22$ ), or 3.3%. Data from each of the three year studies will be evaluated in this manner, and then at the conclusion of the 2008 study, the results from all of the previous years of monitoring will be averaged to determine the Project’s take level.
- The passage survival and level of incidental take of bull trout at the Wells Project will be assessed for each passage route where feasible. The number of fish detected using some routes may be very low. The incidental take for a passage route, if any and if feasible, will be estimated by the number of observed mortalities to tagged fish that are attributable to that passage route divided by the total number of tagged fish known to have passed through that route. If the route of passage cannot be separated into turbine, spill or bypass then the route determination will default to downstream passage through the dam. A statistical analysis will be used to detect if the level of incidental take for each passage route and for the total project exceeds the anticipated incidental take level documented in the applicable USFWS biological opinion. The statistical analysis will be a

one-tailed test of the hypothesis that the anticipated incidental take level is not exceeded.

- If project effects are shown to be negligible as measured by incidental take monitoring, then the monitoring program will be repeated on a ten year interval as follows. Every ten years for the term of the license (i.e. years 2015, 2025, 2035, etc.), implement the above monitoring program for a one-year period. If the take level is exceeded during that year, a second year of tagging will be implemented. If the take level is exceeded in the second year, Douglas PUD will work with stakeholders to develop a collaborative plan to address the identified problem.
- Douglas PUD will engage in cost share funding with the Service for analysis of genetic samples from fluvial bull trout sampled during the 2005 Mid-Columbia Bull Trout Radio-telemetry Study.

*Strategy 1-2: Analyze passage results and operational data to determine if correlations exist between passage times and passage events and project operations.*

- Compile and characterize Project (spill, turbines, reservoir elevations, TDG) and ladder operations data during times of downstream passage for active tagged fish.

*Strategy 1-3: Determine off-season adult bull trout passage through the adult fishway (numbers and times of year) at Wells for an experimental period 2004 - 2005.*

- Implement off-season video counts of fishway at Wells Dam during the entire winter of 2004 – 2005, to record dates and times of adult bull trout passage. Currently, Douglas PUD engages in video counts of at least 1 adult fishway for 28% (2 days a week) of the off-season period. During this period, no adult bull trout have been observed using the adult fishway.
- Evaluate results to determine if passage trends exist and when ladder maintenance should occur during the off-season.
- If trends exist, investigate ladder maintenance activities during low usage periods for bull trout (where reasonable and feasible) that do not conflict with adult anadromous fish passage.

*Strategy 1-4: Should upstream or downstream passage problems be identified, pursue the feasibility of options to modify upstream passage facilities or operations that reduce the impact to bull trout passage.*

- Douglas PUD will work with stakeholders to develop a collaborative plan should upstream or downstream passage problems be identified that impact adult bull trout passage.

## **Objective 2**

Assess project-related impacts on upstream and downstream passage of sub-adult bull trout.

### **Strategies for Objective 2**

*Strategy 2-1: The stakeholders agree at this time that because of the inability to collect a sufficient sample size of sub-adult bull trout, it is not feasible to assess sub-adult passage at Wells. However, when encountered at the project, or in tributary traps, sub-adult bull trout will be PIT tagged.*

- Douglas PUD will provide PIT tags, equipment and facilitate training to enable PIT tagging of sub-adult bull trout when these fish are incidentally encountered during certain fish sampling operations. Fish sampling operations that could have incidental captures of sub-adult bull trout include the Wells adult fishway, Methow broodstock traps, and juvenile salmonid trapping activities on the Methow, Twisp, and Chewuch rivers. Different entities conduct these fish sampling operations, thus the provision of tags, equipment and methodology should be standardized. Douglas PUD will provide the following for each site: 10 PIT tags (or more if appropriate) and tagging syringes, a list of standardized methods developed in consultation with the Service, and, in coordination with the Service, Douglas PUD will facilitate an annual pre-season coordination meeting with the fish sampling entities.
- Douglas PUD will participate in information exchanges and regional efforts to explore methods to monitor upstream and downstream movement of sub-adult bull trout in the mainstem Columbia River. If methodologies become available, Douglas PUD will, in conjunction with the Service, evaluate and implement those methods as appropriate, for monitoring bull trout at Wells.

*Strategy 2-2: Determine off-season sub-adult bull trout passage through the adult fishway (numbers and times of year) at Wells for an experimental period 2004 - 2005.*

- Implement off-season video counts of fishway at Wells Dam during the entire winter of 2004 – 2005, to record dates and times of sub-adult bull trout passage. Currently, Douglas PUD engages in video counts of at least 1 adult fishway for 28% (2 days a week) of the off-season period. During this period, no sub-adult bull trout have been observed using the adult fishway.
- Evaluate results to determine if monthly passage trends exist.
- If trends exist, investigate feasibility to implement ladder maintenance activities during periods (where reasonable and feasible) that do not conflict with adult anadromous fish passage.



### **Objective 3**

Investigate the potential for sub-adult entrapment or stranding in off-channel or backwater areas of Wells Reservoir.

*Strategy 3-1: Evaluate Wells inflow patterns, reservoir elevations, and backwater curves to determine if stranding or entrapment of bull trout may occur.*

- Review Wells forebay elevations, back-water curves, and historical discharges (daily, hourly) from Chief Joseph, to determine Wells Reservoir surface water elevations during low flow periods.
- Determine if backwater locations exist that could lose connectivity to the river during low flow hours. Determine elevations of backwater areas to identify flow scenarios that could result in de-watering or isolation that could result in take. If locations are identified, implement an appropriate fish sampling schedule and method to determine if bull trout are using the identified areas during low flow hours.
- If information shows that take of bull trout occurs due to stranding or de-watering, then Douglas PUD will work with stakeholders to develop a collaborative plan to address the identified problem.

### **IMPLEMENTATION**

Douglas PUD will begin implementation of the WBTMP no later than May 1, 2005.

### **REPORTING**

Douglas PUD will report any bull trout mortality in the Project area to the Service within 48 hours. During tagging and monitoring years, Douglas PUD will prepare an annual, interim summary report by March 31<sup>st</sup> for the prior year's activities to update the Service on tag status and take monitoring. Douglas PUD will prepare a final take monitoring report by December 31, 2008, to include a six year average annual take level for the Project.

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**APPENDIX J**

**GRANT PUD REQUEST FOR SURVIVAL STUDY FISH**

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Grant County  
**PUBLIC UTILITY DISTRICT**  
*Innovation & Excellence... Yesterday, Today and Tomorrow*

August 29, 2005

Shane Bickford  
Relicensing Coordinator  
Public Utility District No. 1 of Douglas County  
1151 Valley Mall Parkway  
East Wenatchee, Washington 98802-4497

Dear Mr. Bickford:

In July of 2004, the Public Utility District No 1 of Douglas County (Douglas PUD) and the Public Utility District No 2 of Grant County (Grant PUD) jointly entered into an Interlocal Cooperative Agreement (#430-1217) intended to provide Grant PUD with access to excess capacity at Douglas PUD's existing Methow and Wells fish hatcheries.

Pursuant to the terms of the Interlocal Cooperative Agreement, Douglas PUD and Grant PUD met on July 29 to discuss the hatchery rearing budgets for the current year (YR2005) and to discuss which of the five rearing programs could be implemented during the 2005 hatchery rearing cycle. On August 18, 2005; Grant PUD met with the Priest Rapids Coordinating Hatchery Sub-committee (PRCC-Hatchery) and gained formal approval to implement three hatchery rearing programs for the 2005 rearing cycle. On August 24, 2005; Grant PUD met with the Priest Rapids Coordinating Committee (PRCC) and gained formal approval to implement three hatchery rearing programs for the 2005 rearing cycle.

Following approval of PRCC Hatchery Sub-Committee and PRCC and pursuant to Section 8 (Notification) of the Interlocal Cooperation Agreement, Grant PUD is submitting to Douglas PUD written notification of the production levels required to meet Grant PUD's requirements under the Biological Opinion issued for the Priest Rapids Project by NOAA on May 3, 2004 and approved by FERC on December 16, 2004.

Grant PUD prefers to receive 150,000-yearling steelhead which will be used for survival evaluations (Group 1), 100,000-steelhead for release into the Methow and Okanogan rivers (Group 3), and 201,000-yearling spring Chinook for release into the Methow River (Group 4).

Sincerely

Tom Dresser  
Fish, Wildlife, and Water Quality Manager  
Public Utility District No 2 of Grant County

Cc: Priest Rapids Coordinating Committee  
Priest Rapids Hatchery Sub-Committee

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**APPENDIX K**  
**WELLS HATCHERY COMPLIANCE REPORT**

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Wells HCP Hatchery Production Compliance Report  
 2005 Wells HCP Action Plan  
 HCP Hatchery Committee

**Inundation Compensation Program**

The FERC license to operate the Wells Hydroelectric Project requires Douglas PUD to raise and release fish to compensate for original impacts associated with the development of the Wells Reservoir. All of the fish for this program are raised at the Wells Fish Hatchery. The number and pounds of fish to be release each year, for the Inundation Compensation Program, can be found in Section 8.4.6 of the Wells HCP Agreement.

<b>Inundation Compensation Program</b>	<b>Numeric Target</b>	<b>Poundage Target</b>	<b>Target Wt.</b>	<b>Number Released</b>	<b>Pounds Released</b>
Yearling Summer/Fall Chinook (2003 BY)	320,000	32,000	10 fpp	313,509 <sup>1</sup>	31,351
Subyearling Summer/Fall Chinook (2004 BY)	484,000	24,200	20 fpp	471,123 <sup>2</sup>	13,134
Yearling Summer Steelhead (2004 BY)	300,000	50,000	6 fpp	300,000 <sup>3</sup>	53,571

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<sup>1</sup> C. Snow April 2005 Memo for the total released.

<sup>2</sup> C. Snow memos for May and June 2005 shows an early release on May 18 of 230,649 (44.6 fpp) and a late release on June 13 of 240,474 (30.2 fpp). The poundage obligation was not met this year due to an early experimental release of fish conducted by hatchery evaluation staff.

<sup>3</sup> C. Snow May 2005 Memo shows total release. Steelhead weights based on 5.6 fpp.

### No Net Impact Compensation Program

Section 8.4.3 of the Wells HCP contains specific numbers and pounds of juvenile plan to be produced to meet Douglas PUD's No Net Impact production levels for unavoidable juvenile losses at the Wells Project. Juvenile passage losses are off-set through the production of juvenile plan species at three facilities (Wells Fish Hatchery, Methow Fish Hatchery and Eastbank Fish Hatchery) and through the implementation of mitigation options identified in the Sockeye Enhancement Decision Tree.

No Net Impact Compensation Program	Numeric Target	Poundage Target	Target Wt.	Number Released	Pounds Released
Yearling Summer Steelhead (2004 BY)	48,858	8,143	6 fpp	64,546 <sup>4</sup>	11,526
Yearling Summer/Fall Chinook (2003 BY)	108,570 <sup>5</sup>	10,857	10 fpp	108,570	6,786
Yearling Spring Chinook (2003 BY)	286,071 <sup>6</sup>	19,071	15 fpp	157,158 <sup>7</sup>	9,701
Yearling Osoyoos Lake Sockeye <sup>8</sup>	7%	NA	NA	55%	NA

<sup>4</sup> C. Snow May 2005 Memo. Steelhead weights based on 5.6 fpp.

<sup>5</sup> Carlton Pond Summer Chinook released by Chelan PUD as part of Douglas-Chelan Hatchery Sharing Agreement.

<sup>6</sup> Spring Chinook obligation includes 61,071 NNI smolts and 225,000 species trade for sockeye. The 03BY is the last year of the species trade.

<sup>7</sup> Methow Hatchery Spring Chinook smolts released were 302,152 at 16.2 fpp (April 2005 Memo from C. Snow). This is 55% of a full program of 550,000 fish. Due to the Hatchery Sharing Agreement with Chelan PUD, Douglas shares in the production shortfall equally and thus will show a release of 157,158 fish.

<sup>8</sup> Okanogan Sockeye obligation for NNI is handled through the Fish/Water Management Tool program managed through the Okanogan Nation Alliance. The HCP Hatchery and Coordinating committees have agreed that the continued implementation of this program will satisfy Douglas PUD's 7% hatchery compensation requirement.



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**APPENDIX L**  
**TRIBUTARY COMMITTEES FUNDING POLICIES**

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# **THE TRIBUTARY FUND**

**POLICIES AND PROCEDURES FOR  
FUNDING PROJECTS  
MARCH 2005**

**THE TRIBUTARY COMMITTEES  
TO THE  
CHELAN AND DOUGLAS PUDS'  
HABITAT CONSERVATION PLANS**

# **POLICIES AND PROCEDURES FOR FUNDING PROJECTS HCP TRIBUTARY COMMITTEES**

## **1. INTRODUCTION**

The Tributary Committees (hereafter, Committees) of the Wells, Rocky Reach, and Rock Island Projects' Habitat Conservation Plans (HCPs) are established to implement the Tributary Conservation Plans (Plans) as described in the respective HCPs. The Plans provide a Plan Species Account to fund projects for the protection and restoration of Plan Species<sup>1</sup> habitat within the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace (called the Upper Columbia Region). These funds are intended to compensate for 2 % of the unavoidable mortality to Plan Species at each of the three hydroelectric projects (which is estimated to be 9%).

The Committees recognize that protection and restoration of habitat for Plan Species will benefit other salmonids, particularly resident fish, and perhaps other riparian and aquatic dependent species. It is the policy of the Committees to allocate funds for projects that address the highest priorities for protection and restoration for Plan Species habitat. The Committees will give special consideration to projects that benefit other species in addition to the Plan Species.

## **2. COORDINATION WITH OTHER FUNDING SOURCES**

The Committees will have two stand alone funding programs: 1) the General Salmon Habitat Program; and 2) the Small Projects Program (both are described in Section 3). Based upon discussions with local stakeholders, the Committees established each program to meet a specific need in the Upper Columbia Region and for the most part, are intended to be “stand-alone” programs. However, the Committees will “cost-share” with other funding sources when feasible. The Committees intend to provide matches to other funding sources as a means to expedite and streamline the implementation of projects. This should help local project sponsors secure funds from sources not otherwise obtainable.

To the extent practicable, the Committees will collaborate with regional, local, state, tribal and national organizations that fund salmon habitat projects and activities. The Committees recognize the economies of scale—and the reduced burden to Project Sponsors—of developing funding policies, procedures, and timelines that are similar to other major funding organizations. At this time, the Committees intend to coordinate with ongoing processes to ensure compatibility with the major funding sources in project solicitation and review.

Invariably, the policies and procedures in this document will evolve as the Committees strengthen their collaboration with other funding sources, gain experience from previously funded projects, and solicit input from stakeholders. The Committees will hold annual public workshops to review its funding policies and procedures (Section 6.3).

## **3. GENERAL POLICIES**

### **3.1 Permits:**

It is the responsibility of the Project Sponsor to obtain all local, state, and federal approvals and related permits necessary for the project. The Project Sponsor is also responsible to obtain the approval and consent of landowners impacted by a project. All necessary permits and approvals must be obtained prior to construction or final reimbursement. The Committees may terminate a contract in the event that permits and land use approvals are not obtained in a timely manner.

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<sup>1</sup> Plan species include Chinook salmon, sockeye salmon, coho salmon, and steelhead.

The Committees will support the permitting process for projects funded through the Plan Species Accounts.

### 3.2 Matches

The Committees encourage Project Sponsors to provide a portion of the project value, known as “match.” The Committees believe that matches serve an important purpose for effective project implementation by demonstrating additional commitment to and support of the project. Matches are not required for funding, yet the Committees will seriously consider the extent and type of match when evaluating projects for funding, particularly for the General Salmon Habitat Program (Section 3.4).

Matching resources may include cash, bonds, local and other state or federal grants (unless prohibited by funding source), donated labor, equipment, land valuation, overhead labor costs associated with project management, or materials and force account. The best matching resources will be those that are an integral and necessary part of the approved project and must be committed to the project. Project Sponsors are encouraged to coordinate salmon recovery efforts with other programs, projects, and funding sources.

### 3.3 Geographic Scope

All projects must be in the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace. The primary focus of the Plan Species Account will be to fund projects in the Okanogan, Methow, Entiat, and Wenatchee watersheds, yet projects in smaller tributaries to the Columbia River will also be considered. Projects located in the Okanogan River in British Columbia are eligible for funding. The Plans do not stipulate the relative allocation of funds to each tributary, yet each does specify a geographic description that funding from each Plan is limited to. Funds from the Wells Plan Species Account shall be directed toward the Columbia River and its tributaries from the Chief Joseph Dam tailrace to the Wells Dam tailrace. Rocky Reach and Rock Island Plan Species Account funds shall be directed toward the Columbia River watershed from Chief Joseph Dam tailrace to Rock Island Dam tailrace.

### 3.4 The General Salmon Habitat Program

The Committees have established the General Salmon Habitat Program to assist Project Sponsors in developing practical and effective applications for relatively large projects. Many habitat projects are increasingly complex in nature, and require extensive design, permitting, and public participation to be feasible. Often, a reach-level project involves many authorities and addresses more than one habitat factor. The General Salmon Habitat Program will have the following components to increase the likelihood of successful applications by Project Sponsors:

- The Committees will adopt a pre-proposal application process, to give Project Sponsors an early indication of the appropriateness of a project concept, without having to complete an entire application form prior to getting an indication from the funding source. Once the Committees determine from the pre-proposal that a project is feasible, the sponsor will be asked to submit a detailed application for funding. The Committees may provide advice to the Project Sponsor on how to improve the detailed application.
- The Committees will hold annual workshops for Project Sponsors to improve the quality of the applications.
- The Committees will conduct annual field tours of the proposed projects, to allow dialogue with the sponsors on the objectives of the proposed projects.
- The Committees will offer a phased funding process, which is discussed in Section 3.5.

The purpose of the General Salmon Habitat Program is to fund on-the-ground work. However, the Committees recognize that good projects may languish for lack of funds to develop them. Accordingly, the Committees support the use of a limited portion of the fund to support project development activities. These proposals must clearly lead to the eventual implementation of restoration work.

There is no maximum financial request in the General Salmon Habitat Program. The minimum size proposal is a project valued at \$25,000, although the Committees may provide lesser amounts during a phased project. The General Salmon Habitat Program will accept pre-proposals at any time of the year, but detailed applications will be accepted annually only through the last Friday of September. The Committees may solicit input from the Upper Columbia Regional Technical Team (Section 5.2) or other advisors on the technical adequacy of conceptual designs in the pre-proposals. This will enable Project Sponsors to correct potential technical deficiencies prior to submission of the detailed application.

### 3.5. Phased Projects:

As stated in Section 3.4, there is no upper dollar limit in the General Salmon Habitat Program. However, applicants should consider the potential complexity that large-scale projects may create, and for this reason should discuss phasing with the Committees. Phased projects are subject to the following:

- Approval of any single phase is limited to that phase; no endorsement or approval is given or implied toward future phases.
- Each phase must stand on its own merits as a viable project.
- Each phase must be submitted as a separate application.
- The duration of each phase will be agreed upon by between the Committees and the Project Sponsor.
- Progress on earlier phases may be considered by Committees when making decisions on current proposals by the applicant.

### 3.6 The Small Projects Program

The Committees encourage small-scale projects by community groups, in cooperation with landowners, to support salmon recovery on private property<sup>2</sup>. Through a simple, streamlined application and evaluation process, the Small Projects Program is an effective way to accomplish projects that often rely on local volunteer organizations. These grass-roots efforts can provide many direct and indirect benefits to salmonid habitat. Besides directly benefiting salmon, these grants can energize local volunteer organizations and community leaders to invest in salmon recovery in their own communities.

The Small Projects Program has an application and review process that increases the likelihood of participation by private stakeholders that typically do not have the resources or expertise to go through an extensive application process. The Committees may directly purchase materials for the project to reduce the initial cost outlays by small project sponsors. Project Sponsors may apply for funding at anytime, and in most cases, will receive a notification of funding within three months. The maximum contract allowed under the Small Projects Program is \$25,000 (total, including matches), yet the Committees encourage Project Sponsors to submit applications for \$10,000 or less. The minimum size proposal is a project valued at \$1,000; projects valued at less than \$1,000 may be considered by the Committees on a case-by-case basis.

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<sup>2</sup> Projects may be done on public lands, but the primary intent of this program is to encourage participation by private individuals.

### 3.7 Ownership of Assets

The Committees shall make determinations regarding ownership of real and personal property purchased with funds from the Plan Species Account. Title may be held by a Public Utility District, by a resource agency or tribe or by a land or water conservancy group, as determined by the Committees. Unless the Committees determine that there is a compelling reason for ownership by another entity, the Districts shall have the right to hold title. All real property purchased shall be free and clear of all encumbrances and include permanent deed restrictions to assure protection and conservation of habitat, and the maintenance of habitat, as appropriate.

## 4. GENERAL ELIGIBILITY CRITERIA

Generally, projects are eligible for funding under Committees when:

- The applicant is requesting funds for a project that protects or restores salmon habitat. The specific types of eligible elements of a project are discussed later on in this section.
- The applicant demonstrates a commitment to long-term (10 years or more) stewardship of the project.
- The project will be implemented as soon as feasible, and be completed within five years for the General Salmon Habitat Program and two years for the Small Projects Program. The Committees will work with Project Sponsors to establish the most efficient completion schedule reasonable for the project.

### 4.1. Eligible Applicants:

Anyone may apply. Private landowners are eligible applicants for restoration projects when the project takes place on their own land. Private individuals may not acquire land. A Landowner Agreement is required for proposals on land not owned or controlled by the Project Sponsor. The Application Instructions describes the Landowner Agreement requirements.

### 4.2 Eligible Projects and Elements:

The Committees use the following definitions to establish eligible project types. The eligible project types are:

#### *Acquisition Projects:*

Acquisition includes the purchase of land, access, or other property rights in fee title or less than fee, such as conservation easements. Rights or claims may be acquired provided the value can be established or appraised. All acquisitions must be from willing sellers and acquisitions that are less than fee title shall be perpetual. Acquisition of projects will be based on appraised value.

#### *Restoration Projects:*

*In-Stream Passage* – includes projects that affect or provide fish migration up and downstream to include road crossings (bridges and culverts), barriers, fishways (ladders, chutes, pools), and log and rock weirs.

*In-Stream Diversions* – includes projects that affect or provide for the withdrawal and return of surface water to include the screening of fish from the actual water diversion (dam, headgate), the water conveyance system (both gravity and pressurized pump), and the by-pass of fish back to the stream.

*In-Stream Habitat* - includes projects that affect or enhance fish habitat below the ordinary high water mark of the water body. Items include work conducted on or next to the channel, bed, bank, and floodplain by adding or removing rocks, gravel, or large wood. Other items necessary to complete the project may include livestock fencing, water conveyance, and plant control.

*Riparian Habitat* – includes projects that affect or will improve the riparian habitat outside of the ordinary high water mark or in wetlands. Features may include plant establishment/removal/management, livestock fencing, stream crossing, and water supply.

*Upland Habitat* – includes projects or land use activities that affect water quality and quantity important to fish, but occur above the riparian area. Items include the timing and delivery of water to the stream; sediment and water temperature control; soil stabilization, plant removal, control, and management; and livestock fencing and water supply.

#### *Other Projects*

The Committees encourage innovative approaches to protection and restoration of habitat. Technically sound projects that do not fit into the above categories will be evaluated by the Committees.

#### *Assessments and Studies:*

The results of proposed assessments must directly and clearly lead to identification, siting, or design of habitat protection or restoration projects or fill a data gap that is identified as a priority in the Upper Columbia Biological Strategy<sup>3</sup>. Assessments only intended for research purposes, stand-alone monitoring, or to further general knowledge and understanding of watershed conditions and function, although important, are not eligible for Tributary Committee funding. Eligible studies may include, but not be limited to:

*Technical Studies:* Project feasibility and design studies; channel migration studies; and inventories such as barriers or unscreened water diversions.

*Feasibility Studies:* Assessing the willingness of landowners to allow access to their land for a habitat restoration project or to consider leasing or selling a property interest.

*Reach-level Studies:* Integrative assessments that include physical and biological elements to identify and prioritize restoration and protection projects.

Assessments must be closely coordinated with other assessments and data collection efforts in the watershed. Sponsors must work with the appropriate federal, tribal, state, regional, and local organizations and landowners to prevent duplication and ensure the use of appropriate methods and protocols. To improve coordination, Project Sponsors are encouraged to partner with each other. Assessments and studies must be completed within two years unless additional time is necessary and can be justified by the sponsor. The Committees encourage Project Sponsors to select assessments that can provide usable results within a two-year period. On a periodic basis, the Committees may request proposals to carry out specific projects or assessments. These requests for proposals will be announced through regular procedures.

#### 4.3. Ineligible Projects And Elements

Some specific projects are ineligible for Committees' funding consideration:

- Property acquisition through eminent domain.
- Purchase or construction of buildings or land not essential to the functions or operation and maintenance of the assisted site.
- Mitigation projects, activities, or funds.
- Monitoring, maintenance and stewardship as stand-alone projects.
- Capital facilities and public works projects, such as sewer treatment facilities and stormwater management systems, and domestic water supply systems.
- Converting from septic to sewage treatment systems.
- Operation or construction of fish hatcheries.

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<sup>3</sup> At this time, the *draft* Upper Columbia Biological Strategy, developed by the Upper Columbia Regional Technical Team, will be used as the technical foundation for identification of habitat protection and restoration priorities.

- Net pens, artificial rearing facilities, remote site incubation systems and supplementation.
- Operation of hydropower facilities.
- Fish harvest and harvest management activities.
- Silvicultural treatments or other forest practices required by the Forest Practices Act or the Forest and Fish Agreement.
- Purchase of equipment necessary to implement or monitor a restoration or protection project funded by the Committees.
- Support for lobbying or legislative activities.
- Organizational costs not directly related to project management.
- Costs incurred in developing the Committees' project application. However, the Tributary Committee may provide indirect support in development of large and complex projects (Section 3.4).

## **5. REVIEW PROCEDURES**

The Committees will make funding decisions based on the above eligibility criteria, fund availability, and if necessary, the recommendations from technical advisors (discussed below). The Committees will use a more detailed review procedure for the General Salmon Habitat Program than for the Small Projects Program. However, proposals to both programs will be evaluated for biological and technical merit, feasibility, durability, and cost-effectiveness.

### 5.1. Pre-proposal Review

To reduce the work load for Project Sponsors, the Tributary Committee will entertain conceptual plans for projects using a pre-proposal format. This will enable the Project Sponsor to seek guidance from the Tributary Committee. Pre-proposals may be submitted to the Committees at any time.

### 5.2 Technical Review

The Committees will solicit review of project proposals within the General Salmon Habitat Program by the Upper Columbia Regional Technical Team (RTT). The RTT will use the *draft* Upper Columbia Biological Strategy (or, when completed, the *draft* Upper Columbia Salmonid Recovery Plan, or its accompanying technical documents) as the framework to rate the biological and technical merit of project proposals. For the General Salmon Habitat Program, the Committees will ask the RTT to provide an unranked rating of project proposals. The Committees reserve the right to forego a technical review for a given proposal, in particular, those qualifying for the Small Projects Program.

### 5.3 Final Review

Funding decisions for proposals submitted through the General Salmon Habitat Program will be made in the regularly scheduled January meeting. All decisions on funding will be held in a closed executive session. The Committees reserve the right to hold closed sessions on other issues, when necessary. Project pre-proposal presentations will be open to the public. All other meetings will be open by invitation only. The Committees will use the proposed Mid-Columbia Forum to inform stakeholders of the status of the Plan Species Account(s). Decisions by the Committees are final and not subject to review by any entity.

The Committees will sponsor an annual workshop for all stakeholders to present the annual Plan activities and project selection policies and procedures. Successful project applicants may be asked to present the status of their projects during these workshops (discussed in Section 6.3).



## **6. AWARDS OF CONTRACTS**

### **6.1. Provisional Awards:**

After approval of funding by the Committees, and prior to issuing a Project Agreement, the Committee Chair may request updated or clarifying information from the applicant. Upon receipt of the information, the Committees will prepare the Project Agreement and send it to the applicant, who becomes the Project Sponsor upon signature of the Project Agreement. Reimbursable costs may not be incurred until the Project Agreement is signed by all parties. Committee approval of individual projects is provisional until execution of a formal Project Agreement.

### **6.2 Cost Increases**

The Committees may provide project cost increases up to 15% of total project approved cost if funds are available. Project Sponsors should use all other funding sources before requesting a cost increase. Requests for project increases will be considered by the Committees at their next regular meeting. Approval of cost increases in excess of 15% may be considered provided the following conditions have been satisfied:

- The Project Sponsor must have fully explored all practical alternatives to completing the intent of the Agreement.
- The Project Sponsor has had little control over the condition(s) causing the overrun.
- Any increase must only be used for elements in the Project Agreement.

### **6.3 Timelines and Extensions**

Project Sponsors must complete funded projects promptly. For this reason, the Committees, with applicant assistance, will establish a timetable for project completion, including milestones and a project completion date. This will avoid the risk of the Committees terminating the contract, and help ensure reasonable but timely project completion, accountability, and the proper use of public funds. The Committees will monitor critical project milestones (for example, ordering appraisals and reviews, starting construction, etc.). Unless otherwise specified, all General Salmon Habitat Projects funded by the Committees must be completed within five years of the date of project agreement signatures and small projects must be completed within two years of the date of project agreement signatures. Project sponsors must provide written certification of matches within 60 days of award notification and must complete the Project Agreement settlement within 90 days of award notification.

Unsatisfactory progress may be cause for project termination or other remedies. Project Sponsors may appeal to the Tributary Committees on any decision made. Extension requests must be in writing and provided to the Committees chair not less than 30 calendar days before expiration of the project's completion date. The request must (a) justify the need and (b) commit to a new set of specified milestones.

### **6.4 Public Works/Statutory Requirements**

Project Sponsor may be required to comply with certain statutory requirements associated with public works, such as bid, prevailing wage, performance bonds, or other requirements. These requirements will be reviewed on a case-by-case basis. However, the requirements will always apply if the work is to be conducted on property owned by (or to be owned by) either Chelan or Douglas Public Utility Districts.

### **6.4 Site Inspections**

*Interim*

An interim inspection(s), by the Committees (or designated representative) will be coordinated with the Project Sponsor during project implementation to help resolve any apparent or anticipated problems and to monitor project progress.

#### *Final*

A final review by the Committees will apply to Development/restoration projects only. This final review will take place after the sponsor requests a final payment and/or final inspection. This request will be made only after the project is complete, architects and/or engineers have made their inspection, and defects have been corrected. When the Committees' final inspection verifies that the project is complete as described in the Agreement, the final payment, including retainage, will be made.

#### *Post Completion Compliance*

After verification of project completion (see previous paragraph), the Committees will periodically check the site to ensure that it is being used and maintained according to the terms of the Project Agreement. After making special arrangements with the Committees, the sponsor's staff may also perform these inspections.

#### *Long-term effectiveness*

At the discretion of the Committees, some projects may be evaluated for effectiveness in meeting their stated objectives over a long term, typically a minimum of ten years. The Committees reserve the right to inspect sites, if necessary.

### 6.5 Responsibility for Project

The Committees will provide financial support to the Project Sponsor, but the Project itself remains the sole responsibility of the Project Sponsor. The Committees assume no responsibilities to the Project Sponsor, or to any third party, other than as is expressly set out in the Contract Agreement. The responsibility for the implementation of the Project, as those phases are applicable to this Project, is solely that of the Project Sponsor, as is responsibility for any claim or suit of any nature by any third party related in any way to the Project. The Project Sponsor shall agree to indemnify and hold the Tributary Committee, its members, and subcontractors harmless from any damages associated with the Project.

### 6.6 Project Reimbursements

The Committee's contracting program is operated on a direct reimbursement basis. The Project Sponsor must expend funds and provide documentation for expenditures, prior to receiving compensation. Project Sponsors may apply for funds to implement projects on a phased approach, as described in Section 3.6.

Project administration will be the responsibility of the proponent, except when work is performed on property owned or to be owned by a Public Utility District (District). All invoices and documentation will be submitted by the 10<sup>th</sup> of the month to the Committee Chairperson, along with a short narrative of job progress. At a maximum, invoices may be submitted once a month, and at a minimum, invoices must be submitted once each quarter. Upon approval of the appropriate Committee, and a corresponding written directive to pay, the invoice will be processed by the District(s) that sponsored the corresponding Project. Work on property owned by a District (or similar public government status) will be administered by that District and will require compliance with public works projects (Chapter 39 RCW).

*A. Compliance and Payment.* The obligation of the Districts to pay any amount(s) under this Agreement is expressly conditioned upon strict compliance with the terms of this Agreement by the Project Sponsor.

*B. Compliance and Retainage.* The Committees reserve the right to withhold disbursement of the final ten percent (10%) of the total amount of the grant to the Sponsor until the Project has been completed and approved by the Committees. A Project is considered "complete" when:

1. all approved or required activities outlined in the Agreement are complete;
2. a final Project report is submitted to the Committees with the Sponsor's final request for reimbursement;
3. the completed Project has been approved by the Committees;
4. final amendments have been processed; and
5. fiscal transactions are complete.

*C. Invoice Frequency.* Invoices are required at least once a quarter from state agency sponsors and at least once a year from all other sponsors. The year-end invoice should include expenditures through 31 December, and be submitted no later than 15 January. Final reimbursement requests should be submitted to the Committees within ninety (90) days of the completion of the Project, funding end date, or the termination date, whichever comes first.

#### 6.7 Project Status Reviews

The Committees recognize the importance of sharing "lessons learned" from projects that have been funded. Project Sponsors gain experience in designing, contracting, permitting, implementing, and monitoring of projects. This information should be shared with others in an open dialogue that promotes the development of better, more cost effective projects in the future. As part of their contract, some sponsors will be asked to give a status report to the Committees and other sponsors in annual workshops. The Committees hope that these workshops will engender a common goal of mutual support, and allow a frank and open discussion on how to make the Tributary Fund better.

#### 6.8 Annual Audit

The Committees will request an external audit of all financial transactions made by the Committees. Unless agreed to otherwise, the external audit will be conducted on an annual basis. Funds for this audit will be derived from the Committees' Administrative Account.

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**APPENDIX M**

**SUMMARY AGREEMENT – DOUGLAS PUD M&E PLAN**

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## Decision Statement

Wells, Rock Island, and Rocky Reach HCPs  
Hatchery Committees

The HCP Hatchery Committees approve the attached Douglas County PUD Hatchery Monitoring and Evaluation Plan: *Monitoring and Evaluation Plan for Hatchery Programs funded by Douglas County Public Utility District.*

Agreement Date: August 17, 2005