James Yost Chair Idaho

W. Bill Booth Idaho

Guy Norman Washington

Tom Karier Washington



Jennifer Anders Vice Chair Montana

> Tim Baker Montana

Ted Ferrioli Oregon

Richard Devlin Oregon

August 7, 2018

MEMORANDUM

TO: Fish and Wildlife Committee Members

FROM: Mark Fritsch

SUBJECT: Response submittal Walla Walla Spring Chinook Hatchery Master

Plan. Project #2000-038-00

BACKGROUND:

Presenter: Brent Hall, attorney for the Confederated Tribes of the Umatilla Indian

Reservation (CTUIR) and Gerald McClintock, contracting officer for

Bonneville Power Administration.

Summary: Brent and Gerald will present an overview of their efforts over the past five

years regarding their work on the Walla Walla Spring Chinook Hatchery Master Plan (MP). In addition, CTUIR has prepared a response to the last

ISRP review (ISRP document 2015-7), associated with the draft

monitoring and evaluation plan (M&E Plan) for the hatchery MP, and are prepared to submit their response to the Council for review and future

recommendation.

Relevance: The CTUIR is proposing to add incubation, early rearing, and final rearing

facilities to the existing South Fork Walla Walla Adult Holding and Spawning Facility (i.e., Umatilla Hatchery satellite facility under the Program that began operation in 1997) in order to produce 500,000 yearling spring Chinook smolts annually (at 12 fish per pound (fpp)) annually into the Walla Walla Basin - 400,000 in the South Fork Walla

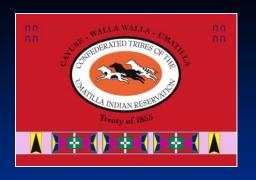
Walla River and 100,000 into the Touchet River.

503-222-5161 800-452-5161 Fax: 503-820-2370 The goals of the CTUIR for Spring Chinook in the Walla Walla subbasin are to provide in-basin harvest for treaty and non-treaty fisheries and restore natural spawning. The presence of naturally spawning salmon in the river in places and times where they spawned historically is of cultural value to the CTUIR. The long-term goal for the Walla Walla Basin is to reestablish a self-sustaining naturally spawning population of spring Chinook through an all-H approach that requires both habitat and passage improvements. The program will be implemented in three phases, shifting from one phase to another based on predefined observable criteria ("triggers"). The phases reflect different states of natural and hatchery survival conditions and therefore differ in purpose and in the disposition priority for the returning adults.

Background: On June 17, 2013, the CTUIR submitted a Step 1 (Master Plan) documents to the Council for the Walla Walla Spring Chinook Hatchery Master Plan, a component of Project #2000-038-00, Walla Walla Hatchery Final Design/Construction. On July 31, 2013 the ISRP requested additional information and data on the production levels and productivity for each phase, details on the expectations how long phase 1 and 2 will last, and clarification on the decision rules and guidelines used to transition from one phase to the next (ISRP document 2013-10). On August 18, 2013 the Council received from the CTUIR a response intended to address the information needs of the ISRP and on September 16, 2013 the Council received their review (ISRP document 2013-12). The ISRP found that the Walla Walla Spring Chinook Hatchery Master Plan meets scientific review criteria and stated that they appreciated the clarity and additional perspective provided during the ISRP's review process of the master plan. Though the ISRP did not qualify their review recommendation they requested that the CTUIR continue to refine and clarify analysis and provide additional information as raised in the ISRP's review (ISRP document 2013-12). These comments are outlined to the response loop topics as outlined in the response from CTUIR on August 18, 2013.

On October 8, 2013, based on the ISRP review, the <u>Council approved</u> the Master Plan (Step 1) for the Walla Walla Spring Chinook Hatchery. This recommendation conditioned on the CTUIR fully address the comments raised by the ISRP (ISRP document 2013-12) as part of the Step 2 submittal.

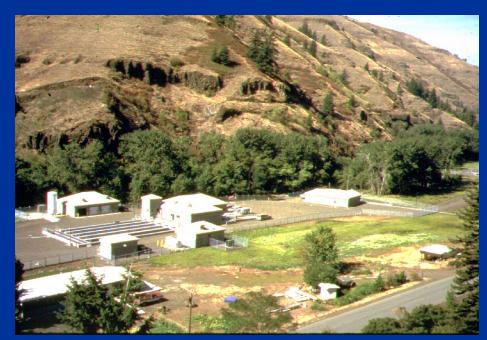
On June 1, 2015, the Council received a submittal from BPA and CTUIR intended to address the condition (i.e., M&E Plan) as part of the Council's October 8, 2013 recommendation. On August 11, 2015 the ISRP provided their review (ISRP document 2015-7) and requested a response.



WALLA WALLA SPRING CHINOOK HATCHERY



Presentation to NPCC August 14, 2018





Presentation Topics

- Project History and Background CTUIR
- Existing and new facilities CTUIR & BPA
- M&E Plan Overview CTUIR
- Schedule and Costs BPA

Walla Walla Spring Chinook Hatchery Project History

- 1987 NEOH projects amended in F&W Program
- 1990-2018 Implement passage/habitat/flow projects
- 1996 South Fork WW adult facility completed
- 2000-2018 Pre-hatchery reintroduction & monitoring
- **2004** First salmon return
- Hatchery project planning process 2008 -2018
- 2018 Time ripe for hatchery construction











Walla Walla Hatchery Project Products and Schedule

Step 1

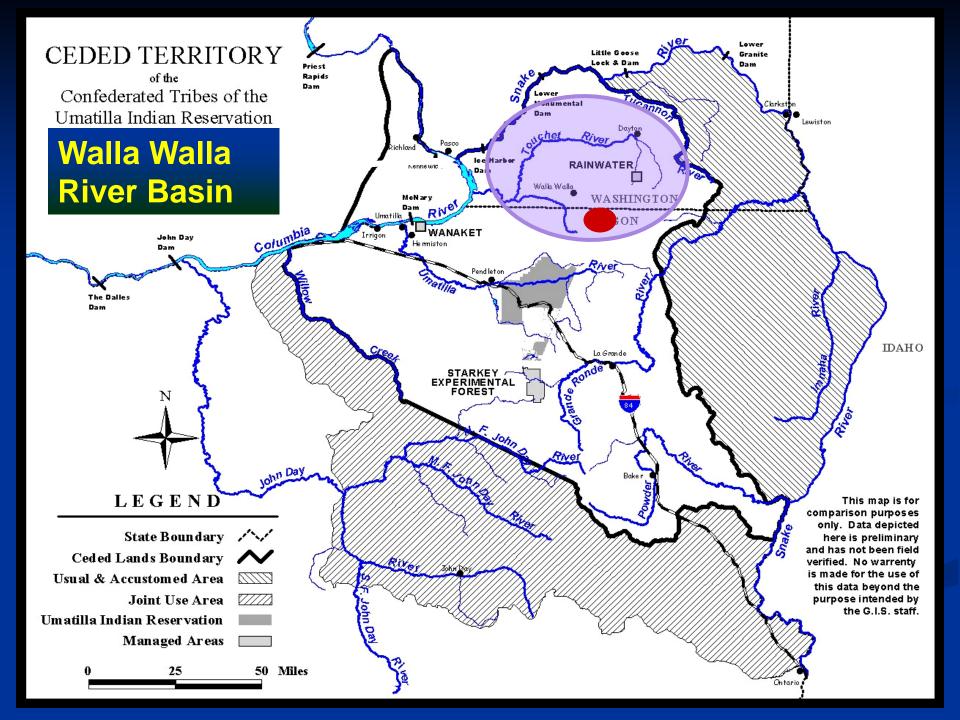
- Conceptual design May 2010 June 2011
- Co-manager MOA and management guidelines signed Oct 2012
- Final HGMP to NOAA Dec 2012
- Council approved Master Plan October 2013

Step 2 and 3

- Preliminary designs & NEPA/EIS 2015 2016
- Final designs & NEPA/EIS 2017 2018
- M&E draft plan 2015; M&E final plan 2018

Construction and Operations Start-up

- Construct hatchery September 2018 late 2019
- First brood 2019; first smolt release April 2021; first adult return 2023



Columbia River

Satellite Hatchery Facility Locations

Three Mile Dam



Hermiston

South Fork Walla Walla



Umatilla River



Minthorn

Imeques

Bonifer



Comprehensive Walla Walla Spring Chinook Restoration Strategy

- Fish Passage Improvements
- Instream Flow Enhancement
- Floodplain Enhancement
- Monitoring and Evaluation
- Artificial Propagation Salmon Reintroduction
- Harvest Management



Existing Facility (Ph I) Includes

Water intake, screens, and pumps







Existing Facility (Ph I) Includes

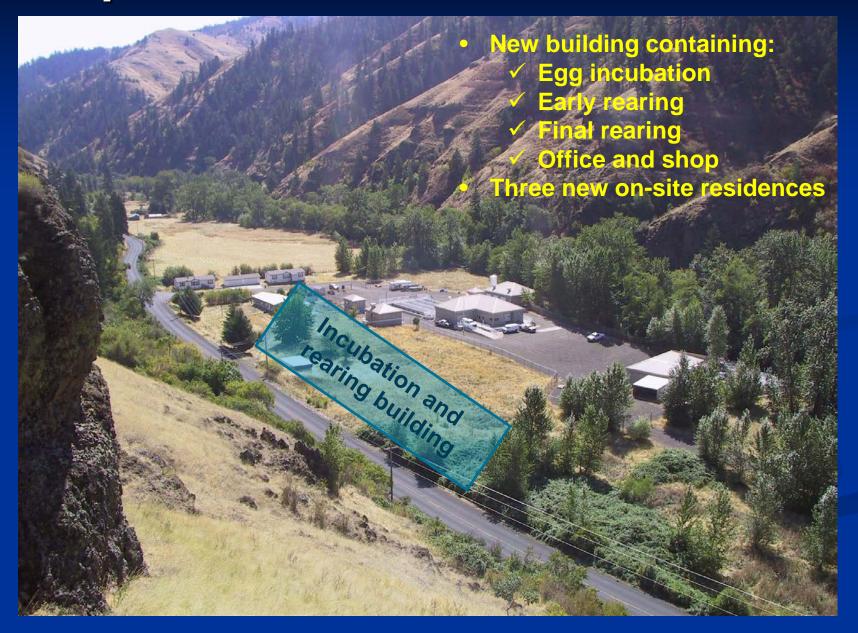
Adult holding and spawning



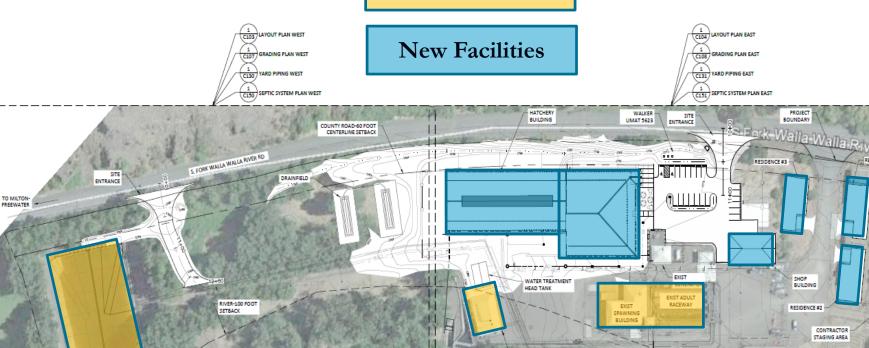




Proposed additional Ph II Facilities



Existing Facilities





F 07/25/18 DSN 90% DESIGN RE-SUBMITTAL E 06/15/18 DSN 90% DESIGN SUBMITTAL D 04/04/18 DSN 90% DESIGN SESWITTAL
C 03/02/18 DSN 60% DESIGN RESUBMITTAL
B 01/05/18 DSN 60% DESIGN SUBMITTAL
A 11/17/17 DSN 30% DESIGN SUBMITTAL

POLLUTION ABATEMENT POND

PROJECT BOUNDARY

PRELIMINARY NOT FOR CONSTRUCTION

PUMP BACK STRUCTURE

EXIST POND STRUCTURE



EXIST JUVENILE BYPASS OUTFALL







SOURCE DE LES CONTRACTOR DE LA CONTRACTO	
William William William	

EXIST RIVER WATER PUMP STATION

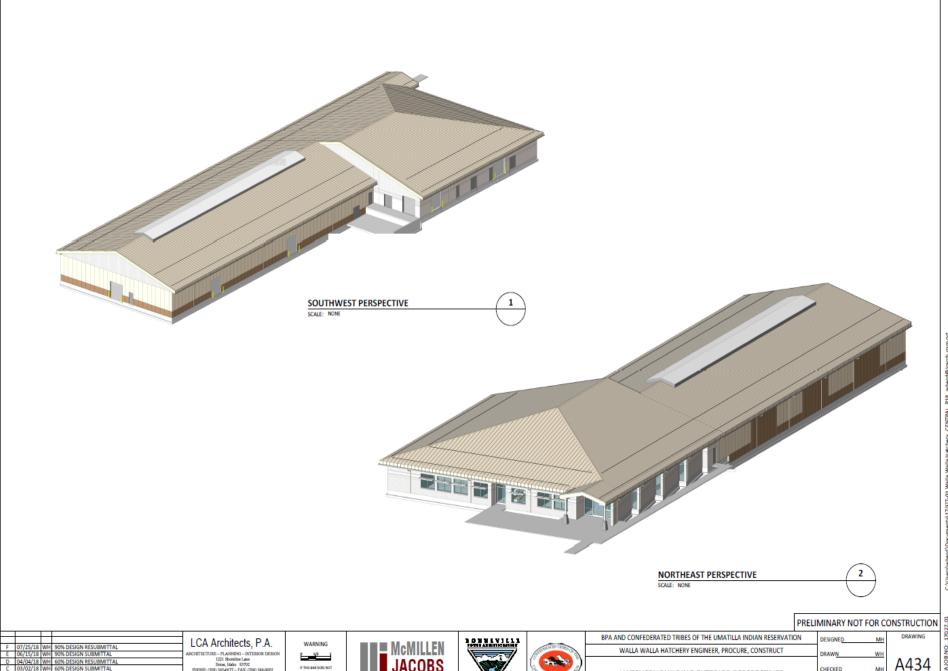
O. WEICK		
DRAWN W. OSTERMANN		
V. AUTIER		
V.,		

EXIST OZONE

DOMESTIC UMAT 50563

C101

PROJECT DATE 07/25/18



ARCHITECTURE - PLANNING - INTERIOR DESIGN
1221 Shoreline Lase
Boiss, Idaba ST02
PHICHE: (201) 345-6677 - FAX: (201) 344-9002
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the page made Specialization and bytem in LCA ARCHITECTS, P.A. is used and expect to contract process.

A 11/17/17 WH 30% DESIGN SUBMITTAL

IF THIS BAR DOES NOT MEASURE 1*THEN DRAWING IS NOT TO SCALE.







	BPA AND CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVAT
	WALLA WALLA HATCHERY ENGINEER, PROCURE, CONSTRUCT
ı	HATCHERY BUILDING EXTERIOR PERSPECTIVES

CHECKED ISSUED DATE 07/25/18

Walla Walla Hatchery Conceptual Drawings



WW Hatchery – Main New Facilities

- New Hatchery Building
 - Egg incubation
 - Early and final circular rearing tanks
 - Office and public viewing facilities
 - Feed storage
 - Research area
- Intake and Treatment Improvements
 - Pump upgrades
 - Pump-back system
- Employee Housing
 - 3 residences

CHS Adult Return Goals

	Hatchery	Natural	Harvest	Total
			Component	Goals
MP Goals Upp. MS/ South Fork	2,750	1,100		3,850
Subbasin Goals*	2,500- 3,000	2,000- 3,000	2,000 - 2,500	5,000- 5,500

^{*} Goals from Tribal Restoration Plan (1996) and Subbasin Plans (2001 and 2004)

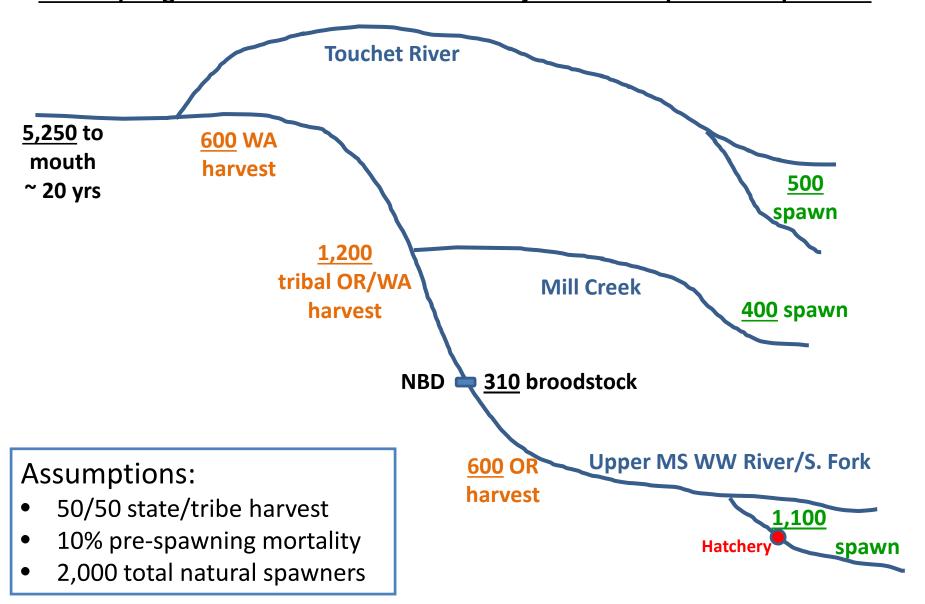
WW Hatchery Program Current vs. WW Hatchery

	Current Program	With WW Hatchery				
Facility	Adult holding/spawning	Add incubation/rearing				
Releases	250K in-river	500K acclimated				
Production	Off-site (Carson NFH)	Localized				
Hatchery Returns	400 (15% of H goal)	2,750 (100% of H goal)				

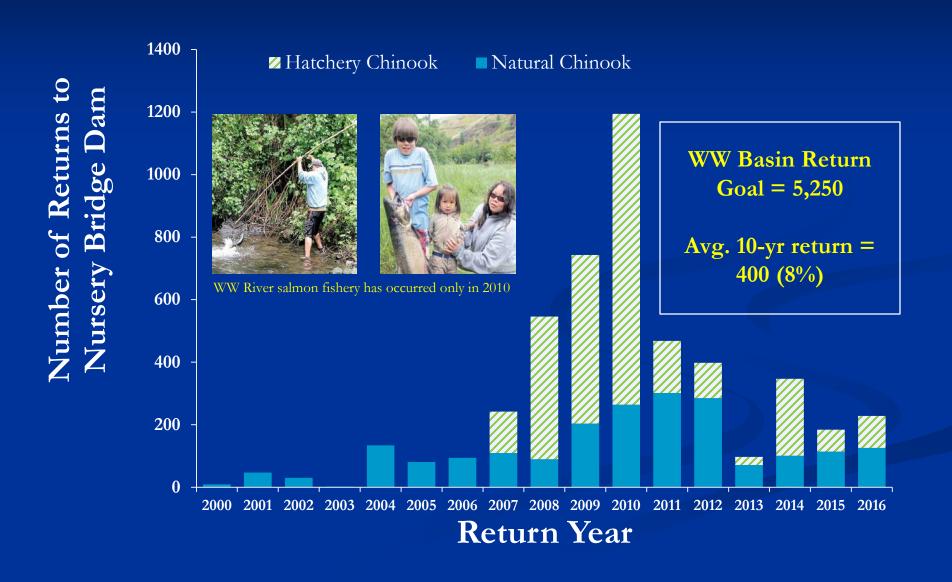
Proposed Program



Walla Walla Basin Hatchery Program Adult Spring Chinook "Full Goal" Return Projections & Expected Disposition



Walla Walla Spring Chinook Returns



CTUIR/ODFW/WDFW MOA for

Walla Walla Hatchery Design, Construction & Operations

MEMORANDUM OF AGREEMENT

CONFRONDATED TRIBES OF THE UMATILIA INDIAN RESERVATION DEPARTMENT OF NATURAL RESOURCES.

OREGON DEPARTMENT OF FISH AND WIRDLIFE

and

WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

Regarding Walla Walla Spring Chinook Hatchery Design, Construction and Operations

Purpose

The Confederated Tribes of the Umatilia Indian Reservation's Department of Natural Resources (CTUIR DNR), Oregon Department of Fish and Wildlife (ODFW), and Washington Department of Fish and Wildlife (WDFW) are recognized as tribel and state co-managers of hatchery operations for salmon and steelnead in the Walla Walla River Basin. A Walla Walla Spring Chinook Hatchery Masker Plan (WWHMP) was submitted to the Northwest Power and Conservation Council by CTUIR DNR In August 2008. The objective of this CTUIR-sponsored and BPA Fish Accord-funded project is to contribute to Walla Walla spring Chinook restoration by locally producing spring Chinook-smolis at a hatchery constructed on the South Fork Walla Walla River. The project is a key component in the overall Walla Walla spring Chinook restoration program that will complement other efforts such as flow, fish passage and stream habitat improvements. The project is expected to produce enough returning adults to provide for broadstock, supplementation and harvest throughout the Walla Walla Basin (upper mainstem and tributaries, Mill Creek and the Touchet River). The terms of this Agroement identify the Walla Walla Spring Chinook Hatchery design, construction and operations supported by the co-managers.

Terms

1. Hatchery Design and Construction

Co-managers support design and construction of incubation, early rearing, and final rearing facilities at the existing South Fork Wella Walla Adult Holding and Spawning Facility in order to accommodate a production capacity of 500,000 yearing spring Chinook smolts (as detailed in the WWHMP). This enhanced facility would then be known as the Valla Wella Heistnery.

2. Hatchery Production Level

Co-managers support annual production of up to 500,000 spring Chinook to be reared full term at the new facility (as per US v OR agreement Table 81. Footnote 6). For purposes of developing the Hatchery Genetic Management Plan (HGMP) analysis, production would be split with up to 400,000 reared/acclimated on site and released directly into the South Fork Walla Walla River; up to 100,000 would be transported into the upper Touchet River. Actual and future adjustments in production levels and release location (as mentioned in WWHMP) will be made as per co-manager agreement through Annual Operations Plans (ACP's).

3. Management Guidelines for Fish Disposition

In contrast to initial management in the neighboring Umatilla Basin, brood collection, hervest, and escapement into the upper mainstem portion of the subbasin will be managed in an ettempt to expedite the restoration of a naturally reproducing population. This natural production emphasis is incorporated into the WWHMP which allocates hatchery and natural origin adults for broodstock, natural spawning escapement, outplenting, and harvest.

In order to avoid annual negotiations regarding management decisions for spring Chinook returning to the Walls Walls River, co-managers will develop Walls Walls River Adult Spring Chinook Management Guidelines similar to those used successfully in the Umatility session. Fish disposition such as hervest, broodstock collection, spawning ascapement and adult outplanting will be determined based on these guidelines and sliding scale preseason run projections and then incorporated into AOP's. It is assumed that co-manager horvest planning would target an equal 50/50 tribal/state share. Any adjustments to the management guidelines would be made as per co-manager agreement during annual AOP discussions. The parties will work together in good faith to resolve any differences including elevating issues to CTURY/ODFW/WOFW policy representatives as necessary.

4. Hatchery Effectiveness Monitoring and Evaluation

CTUIR DNR and WDFW will continue the BPA-funded project "Walla Walla Basin Collaborative Monitoring and Evaluation" to evaluate the hatchery and natural production effectiveness of the Walla Walla Hatchery project. The spring Chinook management approach in the Walla Walle Basin will allow for direct comparisons between restoration and supplementation strategies within the Walla Walle Subbasin as well as in neighboring subbasins.

5. HGMP/Federal Consultation

The parties to this agreement will propose to the federal government that all terms of agreement in this MOA be incorporated into the final Walla Walla Hatchery HGMP.

6. Modification and Withdrawal.

Modifications of this MOA can be made at any time as per written agreement of all parties. Any Party may withdraw from this Agreement at any time by serving written notice to the other Parties, included in the notice shall be an explanation as to the reason for withdrawal. Upon withdrawal of any Party, any remaining Party may withdraw upon notice to the remaining Party.

Signatures:

CONFEDERATED TRUBES OF 19th UMAYELA INDIAN RESERVATION, DEPARTMENT OF NATURAL RESOURCES

OREGON DEPARTMENT OF FISH AND WEDGE

Center & Mila

Date 10/30/12

WASHINGTON DEPARTMENT OF FISH AND WADGITE

the Standard Districtor

Date 10/30/17

Walla Walla Hatchery Spring Chinook Salmon Monitoring and Evaluation Plan

The purpose of the plan is to:

- Describe the scientific framework used to determine quantitative goals for the program.
- Evaluate performance relative to goals and expectations.
- Identify the key metrics that will be monitored.
- Describe how they will be monitored (in field and in hatchery).
- Explain how information will inform management actions such as harvest, escapement, trapping operations, and hatchery actions.
- Frame an adaptive management process (3-phased decision rules) to allow managers to adjust the program to ensure that harvest and conservation goals are met over time.

WW M&E Performance Indicators

(existing project #2000-039-00)

Adult abundance & performance

- Spawning escapement (spawning surveys and/or adult counts at dams, weirs and traps)
- Total population abundance
- Fish per redd
- Redds per mile
- Parent per progeny (P:P)

Juveniles abundance & performance

- Smolt production
- Smolts per redd
- Survival & run timing (in-basin and at Columbia R. dams)
- Smolt to adult return (SAR)

Walla Walla Hatchery Facility Costs

\$3.0M existing facility (Ph I completed 1996)

 \$1.2M Existing broodstock collection incorporated into Nursery Bridge ladder (completed 2001)

\$14.2M proposed construction (Ph II)

Walla Walla Hatchery General Timeline and Costs

Program Area	Occurrence	201	3-14	20	17	20	18	20	19	20	20
Step 1 - Planning and Design	One Time										
Step 2 - Environmental Compliance	One Time			\$420)K						
Step 3 - Final Design	One Time				\$	1.2M					
Construction	One Time							\$14.2	2M		
Annual Operations and Maintenance	Annual										→
Monitoring and Evaluation	Annual										->

Note - Estimated costs are within the current Accord project budget

Cost Estimates

- Master Plan	\$ / 5,000
 Environmental Impact Statement 	\$420,000
■ BPA staff and subcontractor costs	
Planning & Design	\$1,200,000
Construction	\$14,200,000

\$260,000 Capital Equipment

■ Includes equipment for office, research room, fish rearing, fish transport, etc.

Total \$16,155,000