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July 6, 2004

#### **MEMORANDUM**

**TO:** Fish and Wildlife Committee Members

**FROM:** Mark Fritsch

**SUBJECT:** Presentation on the YKFP-Klickitat Design and Construction, Master Plan,

Project 1988-115-35.

#### Action

At your meeting in Spokane the Yakama Nation (YN) will be presenting an overview of their Master Plan (step 1) to address passage improvements and upgrading existing production facilities (i.e. Klickitat Hatchery) in the Klickitat subbasin. The YN will be submitting their Master Plan later this fall to initiate Step 1 review of the Major Project Review Process.

#### **Background**

As part of the Council decision on March 16, 2001 for the Columbia Gorge province the Council outlined a "three-step" review sequence encompassing the proposed passage and production facilities in the Klickitat subbasin.

The master plan (step 1) is intended to provide information to address passage improvements and upgrading existing production facilities (i.e. Klickitat Hatchery) in the Klickitat subbasin to implement an artificial production program (supplementation and augmentation) for spring chinook, fall chinook and coho salmon and steelhead. Spring chinook and steelhead production is aimed at increasing natural spawners, while the coho and fall chinook elements are primarily aimed at augmenting harvest opportunity.

In addition, the program proposes improvements to existing passage facilities that would increase the ability of spring chinook and steelhead to access additional habitat, thus improving natural production, and allow for the collection of spring chinook and steelhead broodstock to meet supplementation goals as well as monitoring associated with these two species.

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## Klickitat Subbasin Anadromous Fishery Master Plan

#### July 13, 2004

- Master Plan Overview
- Implementation Details
- Future Actions
- Benefits



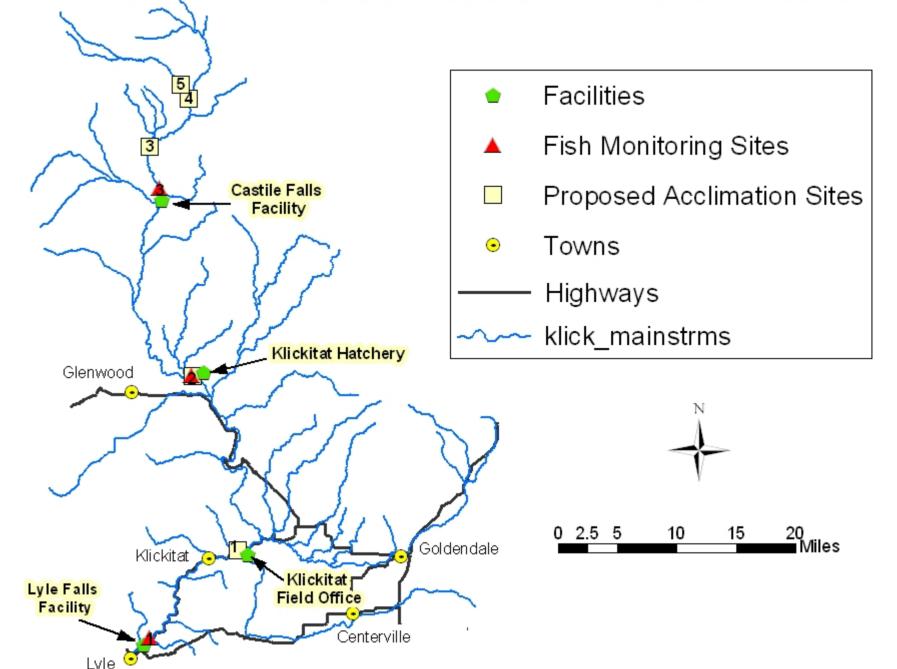
# Purpose of Master Plan

- NPPC and BPA require <u>Master Plans</u> for new programs and facilities proposed to restore salmon populations throughout the Columbia River Basin.
- Document becomes guide for future YKFP activities in Klickitat Subbasin.
- If adopted into Council's F&W Program, document becomes foundation for funding of infrastructure development and long term O&M.

## Yakima/Klickitat Fisheries Project

- Conceived in 1982 by YN and Power Council
- MOU signed in 1994 between WDFW and YN for restoration of historic natural production
- Yakama Nation as Lead Agency
- Development of Cle Elum Hatchery spring chinook supplementation
- Yakima Basin in process of implementing for coho and fall chinook
- Focus on protection and restoration of habitat
- Intent to expand supplementation into Klickitat for spring chinook and steelhead

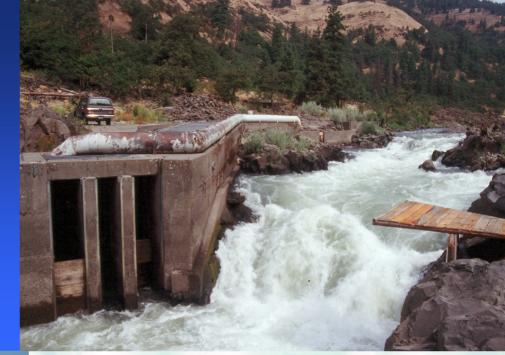
## YKFP Facilities - Klickitat



### Klickitat Facilities

**Transferred to Yakama Nation** 

on October 1, 2004







## **History of Transition Talks to Date:**

1995 Tribal Recovery Plan – implement Klickitat portion of YKFP

1996 Tribal Council vote to pursue transfer

1998 letter from YN to WDFW began discussion

Establish working teams for:

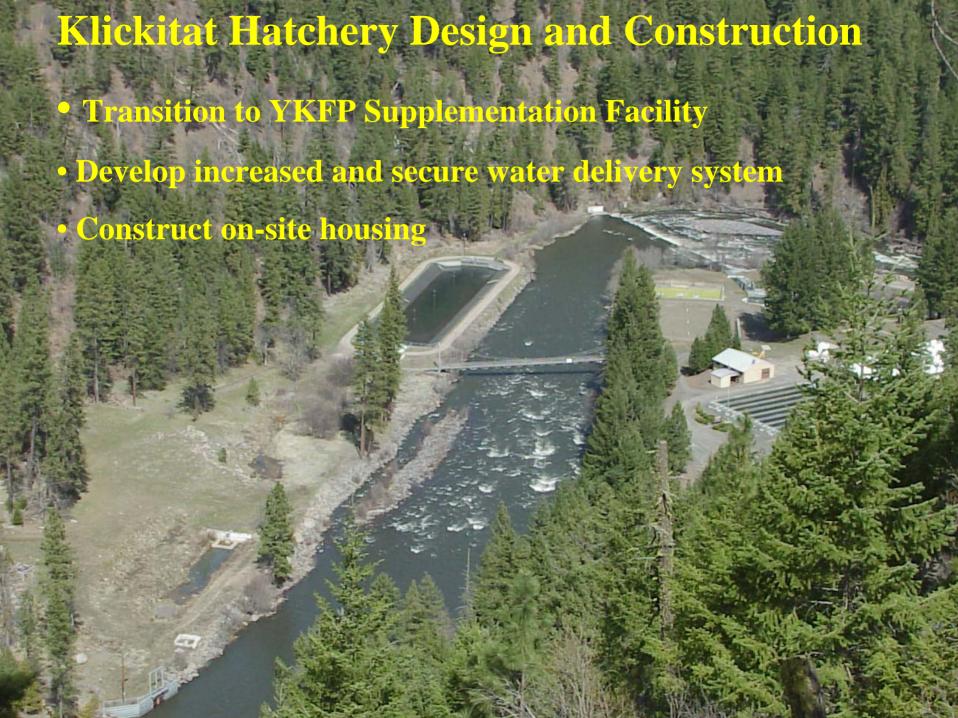
Personnel Strategy

**Funding Strategy** 

Real Estate Strategy (Hatchery, Lyle Falls, Castile Falls)

2003 MOU between YN and WDFW expressing intent towards October 2004 transfer was signed

NMFS brought into discussion for Mitchell Act Funding.



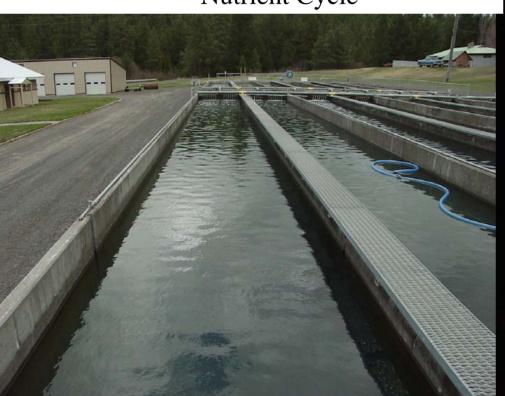
Klickitat Fisheries Project

**Proper Broodstock Collection** 

**Natural Rearing Techniques** 

**Increased Adult Returns for:** 

Ceremonial Harvest Subsistence Harvest Commercial Harvest Natural Production Nutrient Cycle

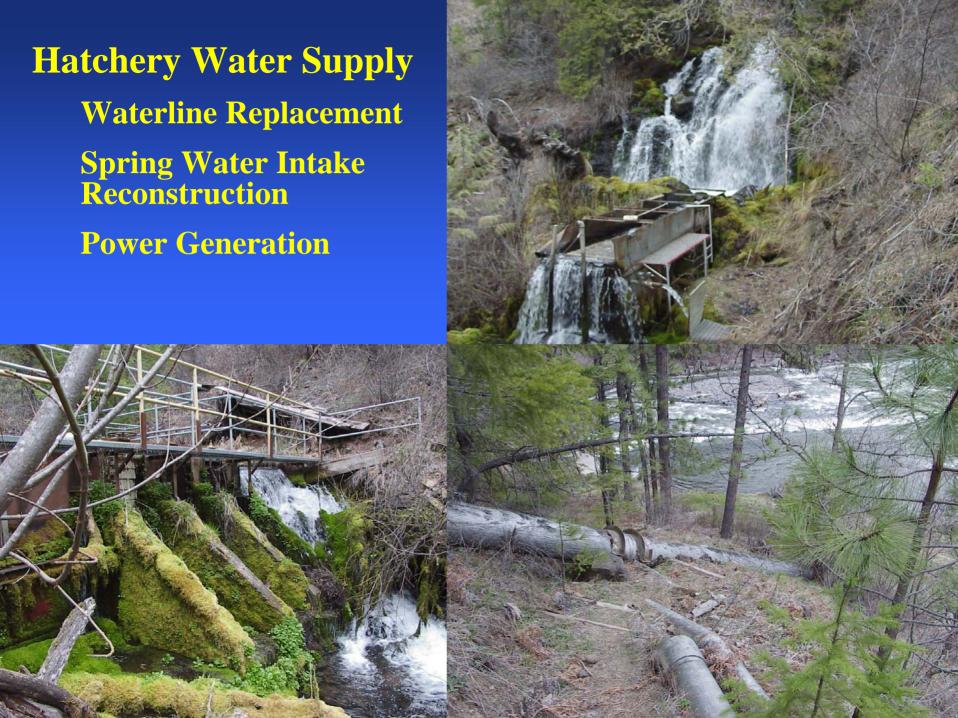




#### **Key Hatchery Reform Recommendations**

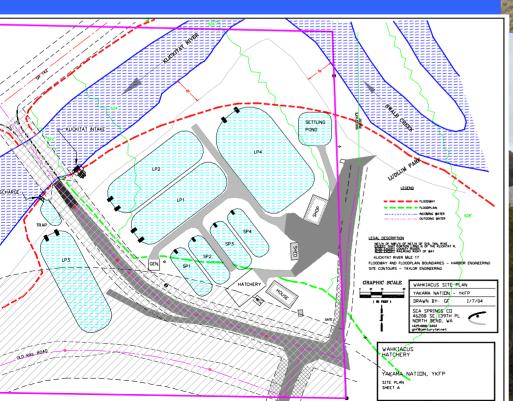
- Random, representative broodstock selection
- local broodstock
- low densities
- use natural broodstock if possible
- careful spawning and rearing protocols





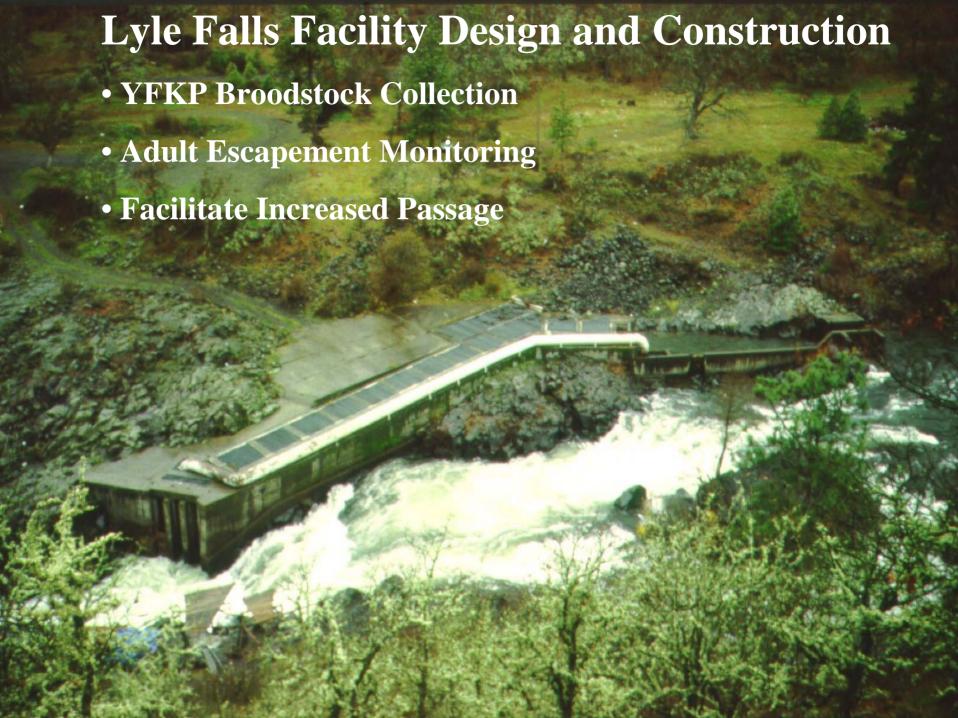
# Wahkiacus Hatchery

## **Acclimation Facility**



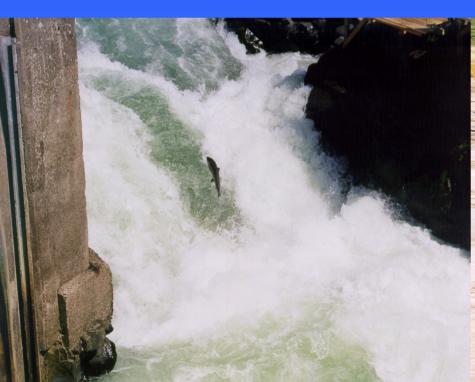


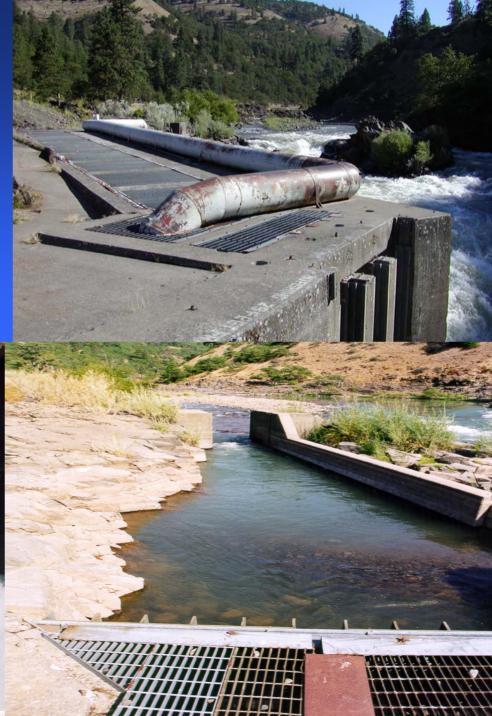


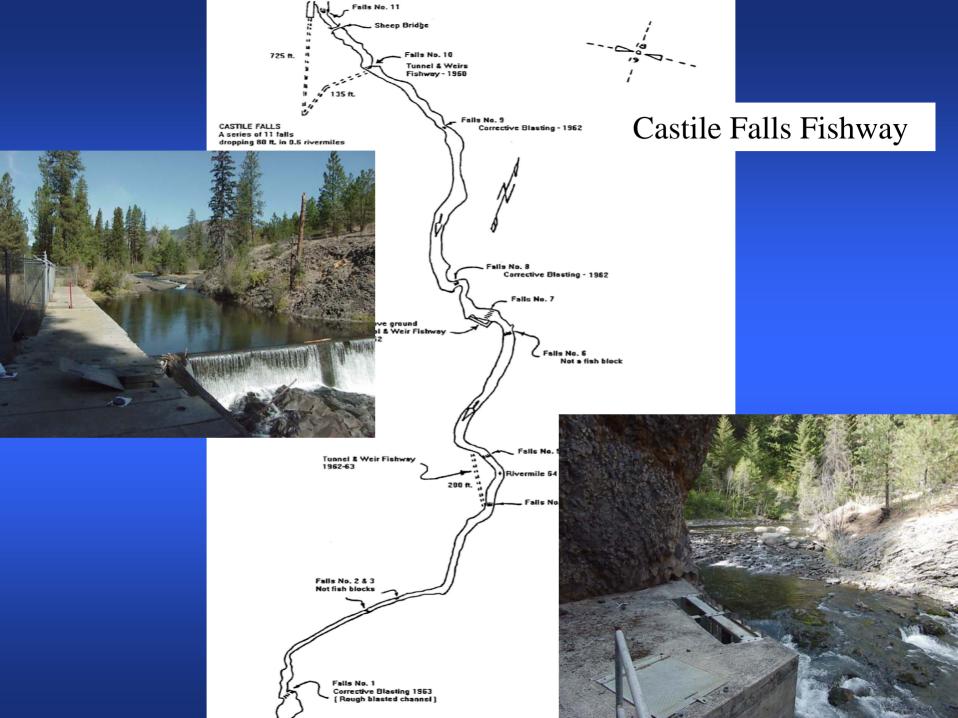


## Lyle Falls Fishway

- •Entrance
- •Exit
- Auxiliary Water Supply
- •Adult Enumeration

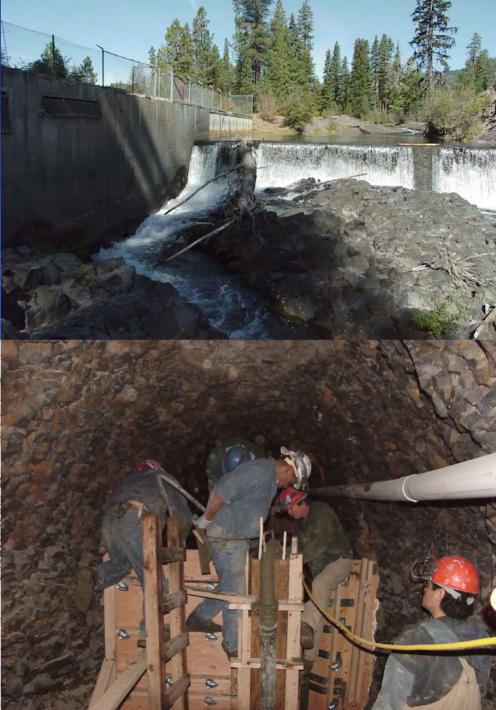


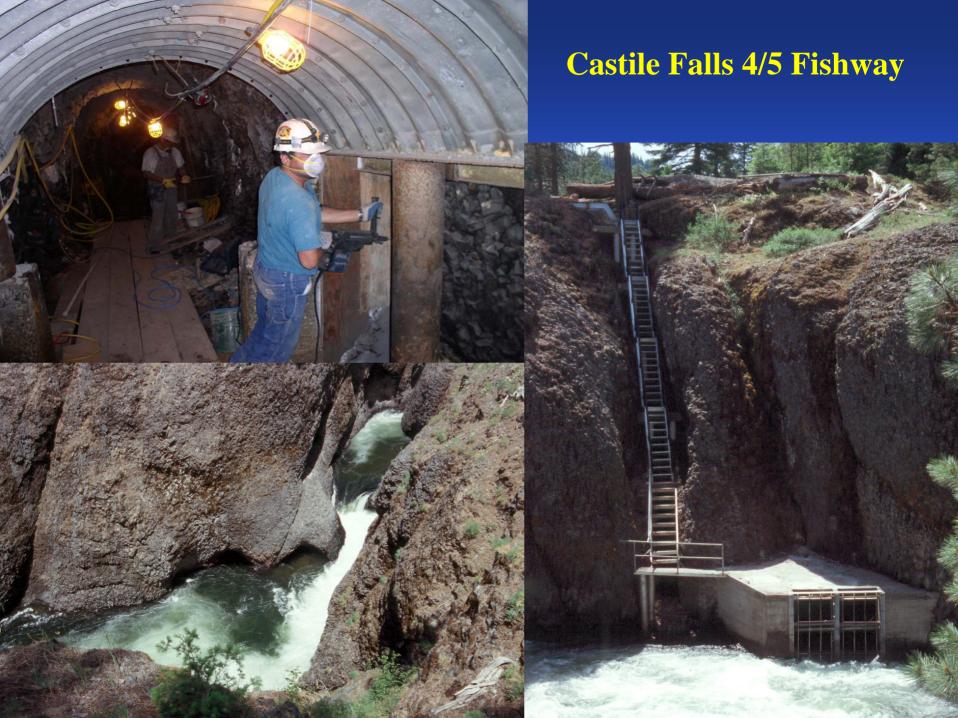




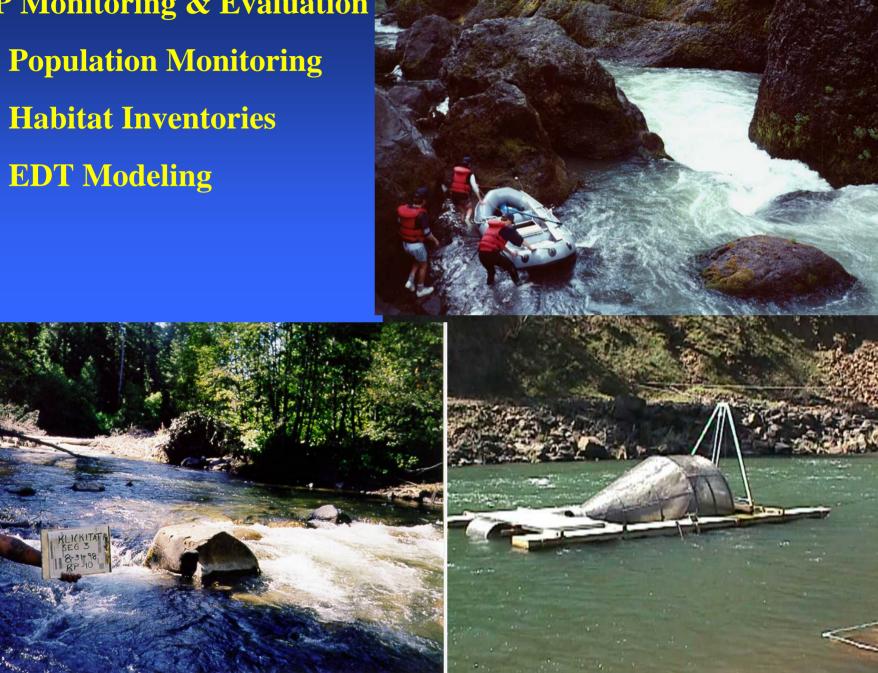
# Castile Falls 10/11 Fishway

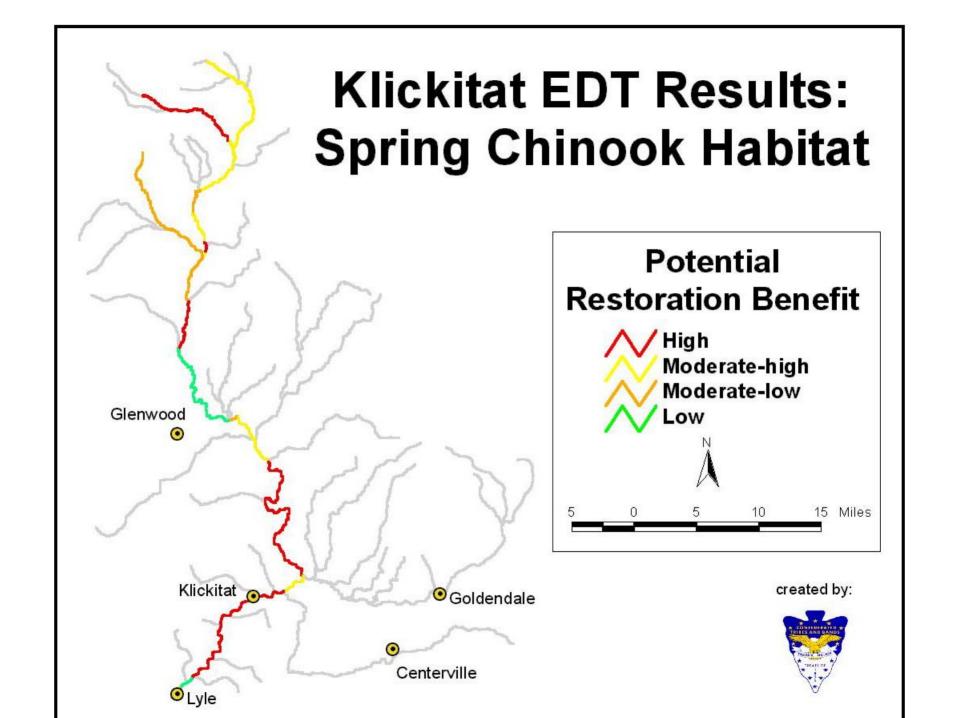




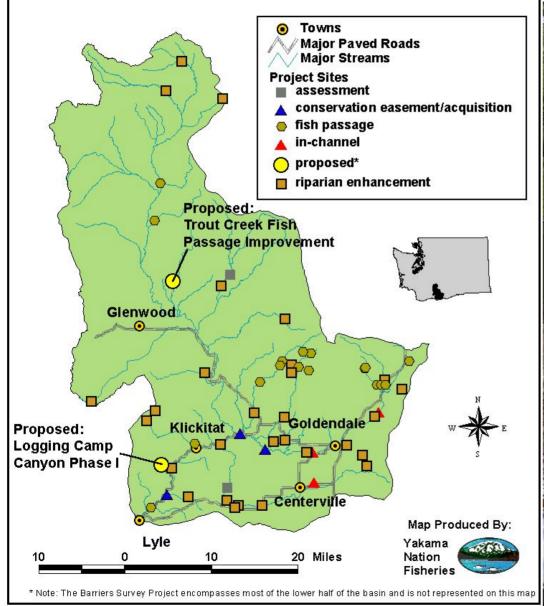


YKFP Monitoring & Evaluation **Population Monitoring Habitat Inventories** 





#### Klickitat Subbasin Watershed Enhancement Projects



#### Surveyors Creek Culvert Replacement



### **Future Actions**

- Master Plan Review
- Identify NEPA issues:
- Incorporate Master Plan Goals into:
  - Klickitat Subbasin Plan
  - US v Oregon CRFMP planning
  - Klickitat Hatchery Transition
  - HGMP/APRE processes

### **Benefits**

- Ecosystem that sustains abundant, productive, and diverse community of Fish and Wildlife
- Mitigation for hydrosystem impacts
- Sufficient populations for abundant tribal & treaty harvest and non-tribal harvest
- Recovery of listed fish affected by hydrosystem
- YKFP consistent with artificial production policies