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Managing Water in the West

Yakima River Basin Mainstem Fish Passage

YRBWEP Workgroup
July 29, 2009



U.S. Department of the Interior
Bureau of Reclamation

YRBWEP Phase I – Fish Passage

Major Facilitates at Mainstem Diversion Dams:

- Yakima River

- Wanawish

- Prosser

- Sunnyside

- Wapato

- Roza

- Town Ditch

- Easton

- Naches River

- Naches-Cowiche/City of Yakima

- Yakima-Tieton

Yakima Storage Dams Fish Passage Feasibility Study

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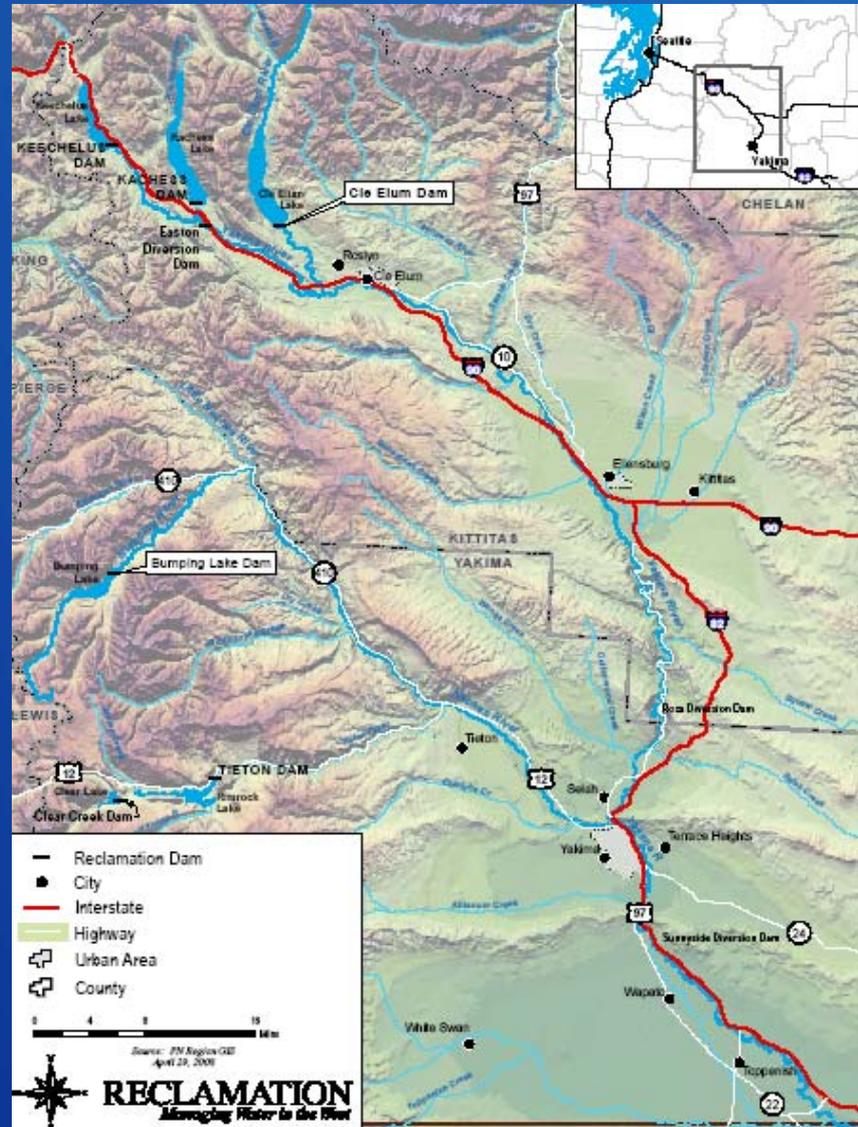
Background

- **Keechelus Dam Reconstruction SOD Program**
 - **Record of Decision**
 - **Mitigation Agreement**
 - **Hydraulic Permit Application (HPA)**
- **Settlement Agreement with Yakama Nation**
- **Collaborative Process with Core Team**

Study Purpose

Feasibility of providing fish passage at five Yakima Project dams

- Keechelus Dam
- Kachees Dam
- Cle Elum Dam
- Bumping Lake Dam
- Tieton Dam



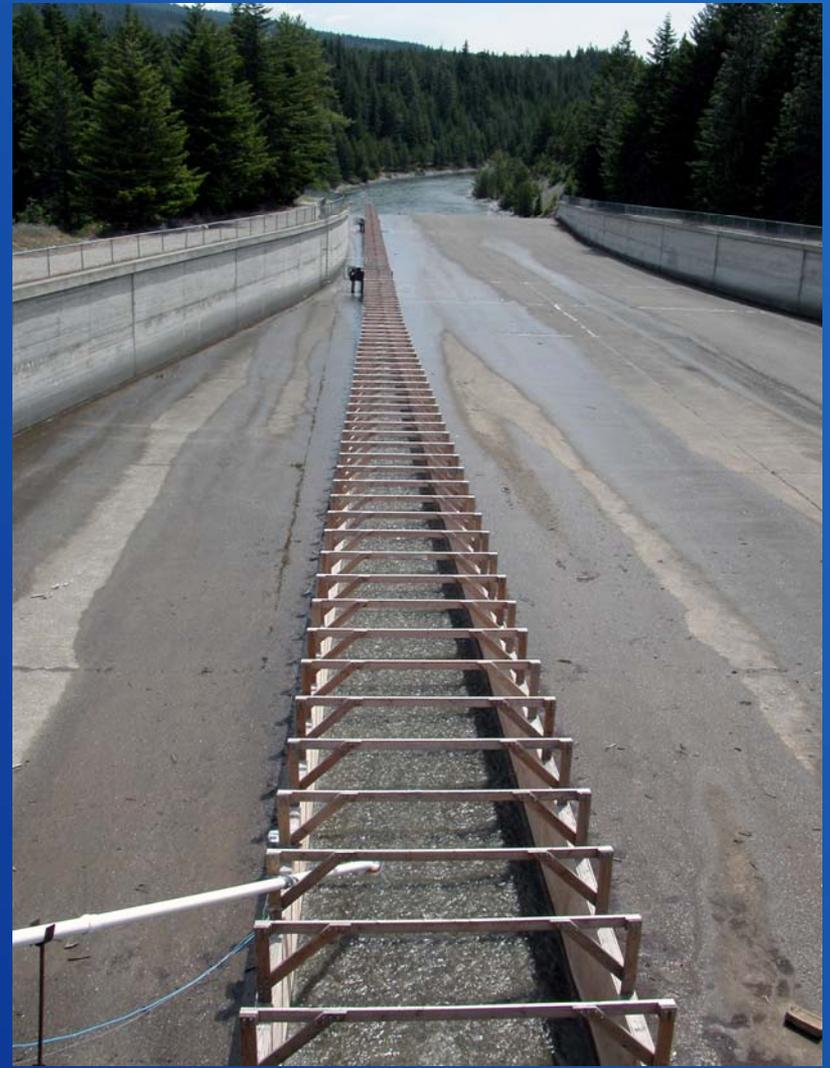
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Study Timeline

- **Phase I Assessment - FY 2003**
 - Passage technically feasible at all five dams
 - Cle Elum and Bumping Lake dams selected
- **Interim Fish Passage at Cle Elum Dam - FY 2005**
- **Feasibility-level Investigation - FY 2006-2008**
 - Cle Elum and Bumping Lake dams (completed Sept 08)
 - Other dams will be investigated in future



Interim Fish Passage at Cle Elum Dam



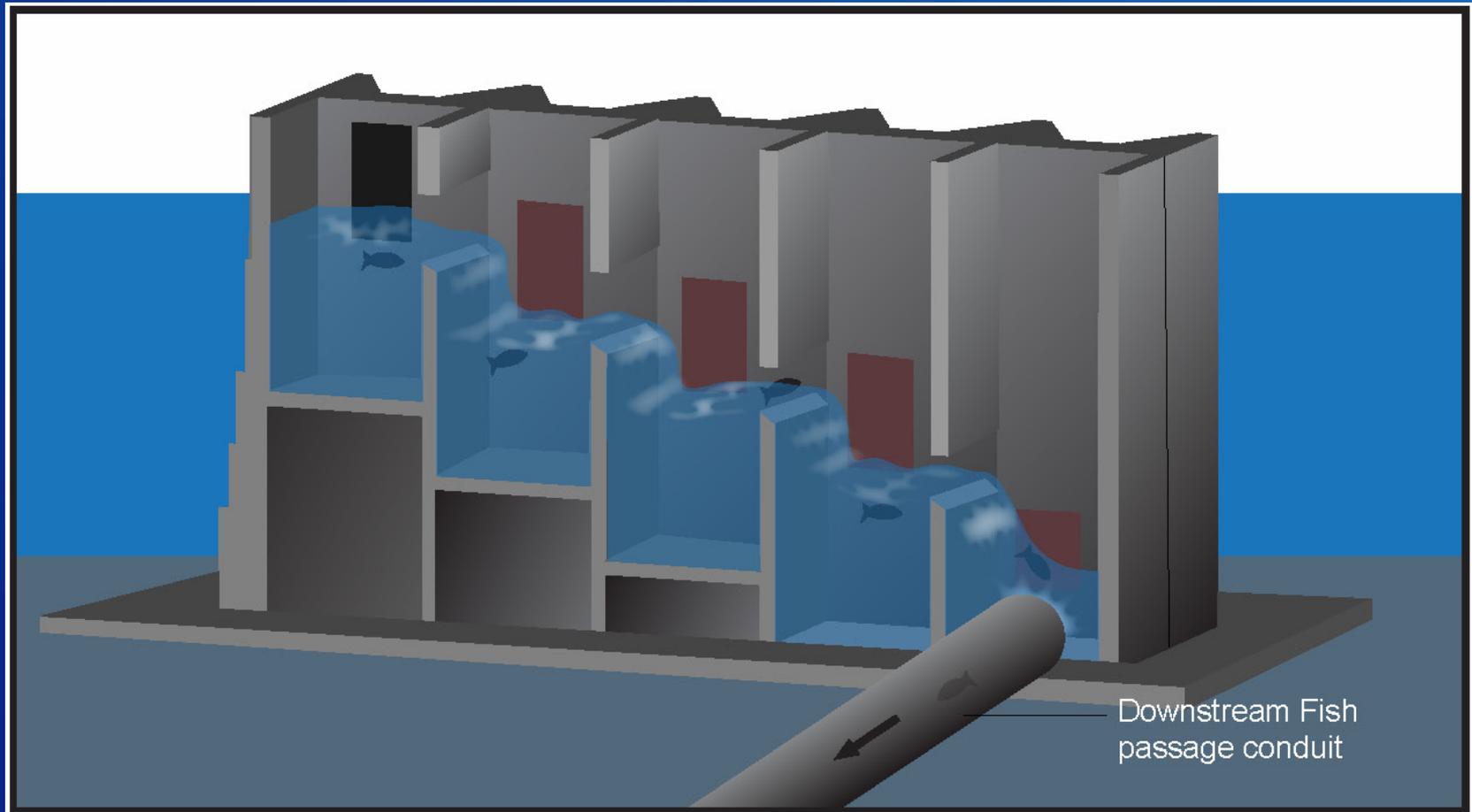
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Fish Passage Concepts

- Downstream juvenile passage
 - Multilevel gated intake structure; conduit to below dam
- Upstream adult passage
 - Collection and transport facility

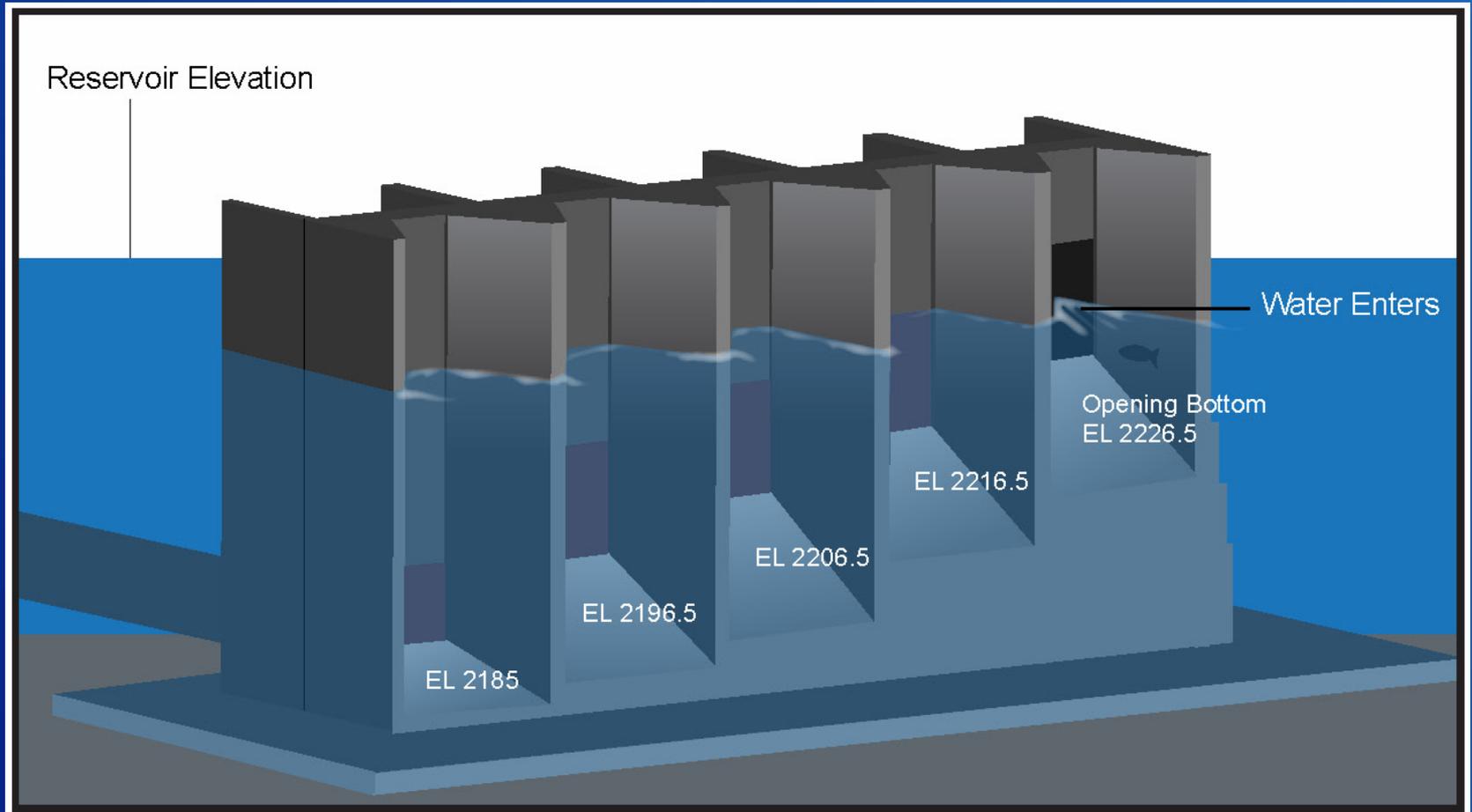


Interior View of Multigated Intake Structure



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Front Elevation (Trashrack Not Shown)



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Next Steps

- **NEPA / SEPA document**
 - Draft February 2010
 - Final February 2011
- **Hydraulic Modeling & Data Collection**
 - FY10 & FY11
- **Final Design**
 - FY12 & FY13

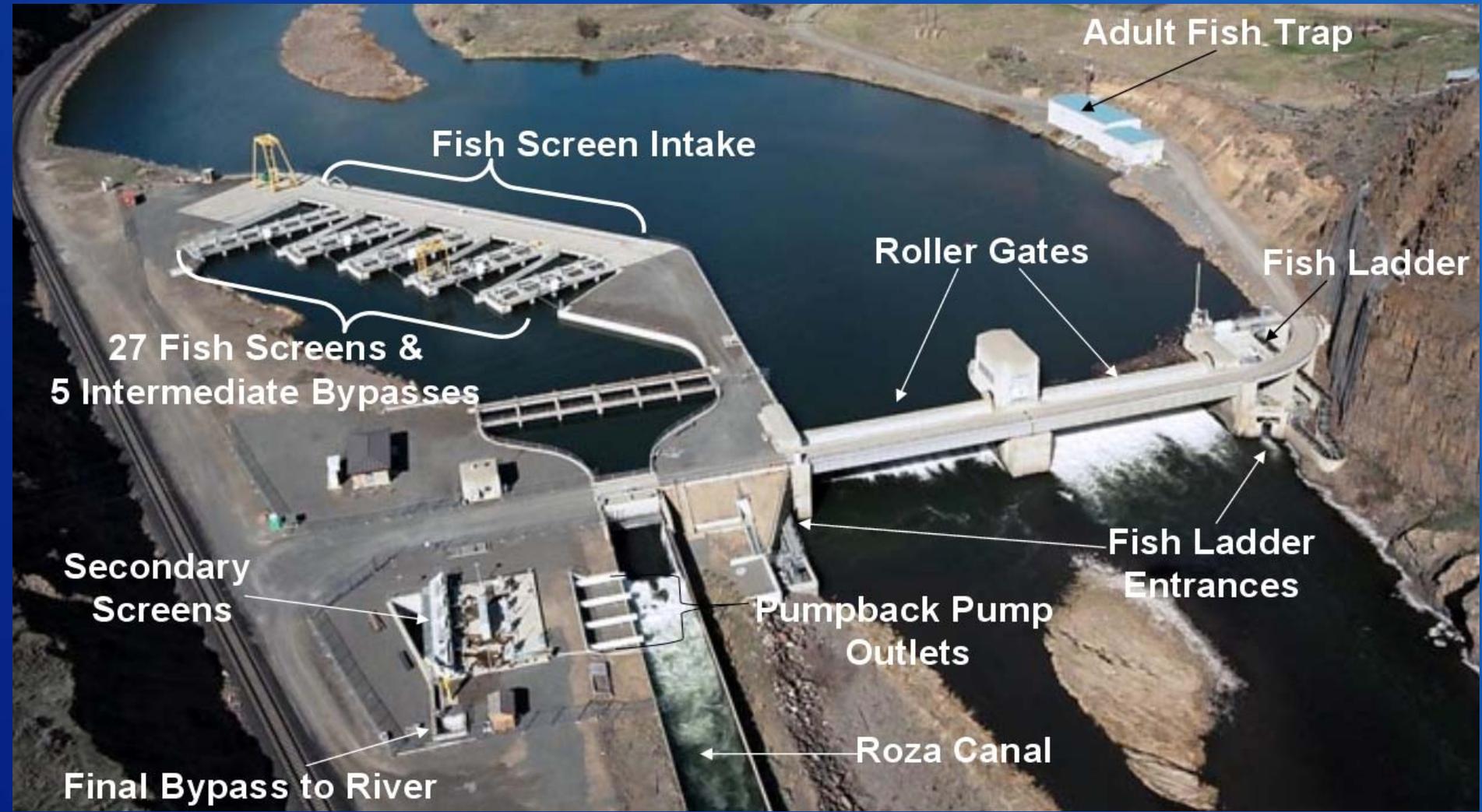
Operations at Cle Elum Fish Passage Facilities

- **Key assumptions:**
 - **No changes to current operations**
 - **No impacts to “Total Water Supply Available” (TWSA)**
 - **Operations would continue to serve existing Reclamation contracts**

Ongoing Fish Passage

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Passage at Roza Diversion Dam





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