

Yakima River Basin Water Resource Management Plan Status

CRPAG
December 4, 2013



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Programmatic Documents

YRBWEP Phase III (Integrated Plan)

Programmatic Environmental Impact Statement
FPEIS-March 2012, ROD-July 2013

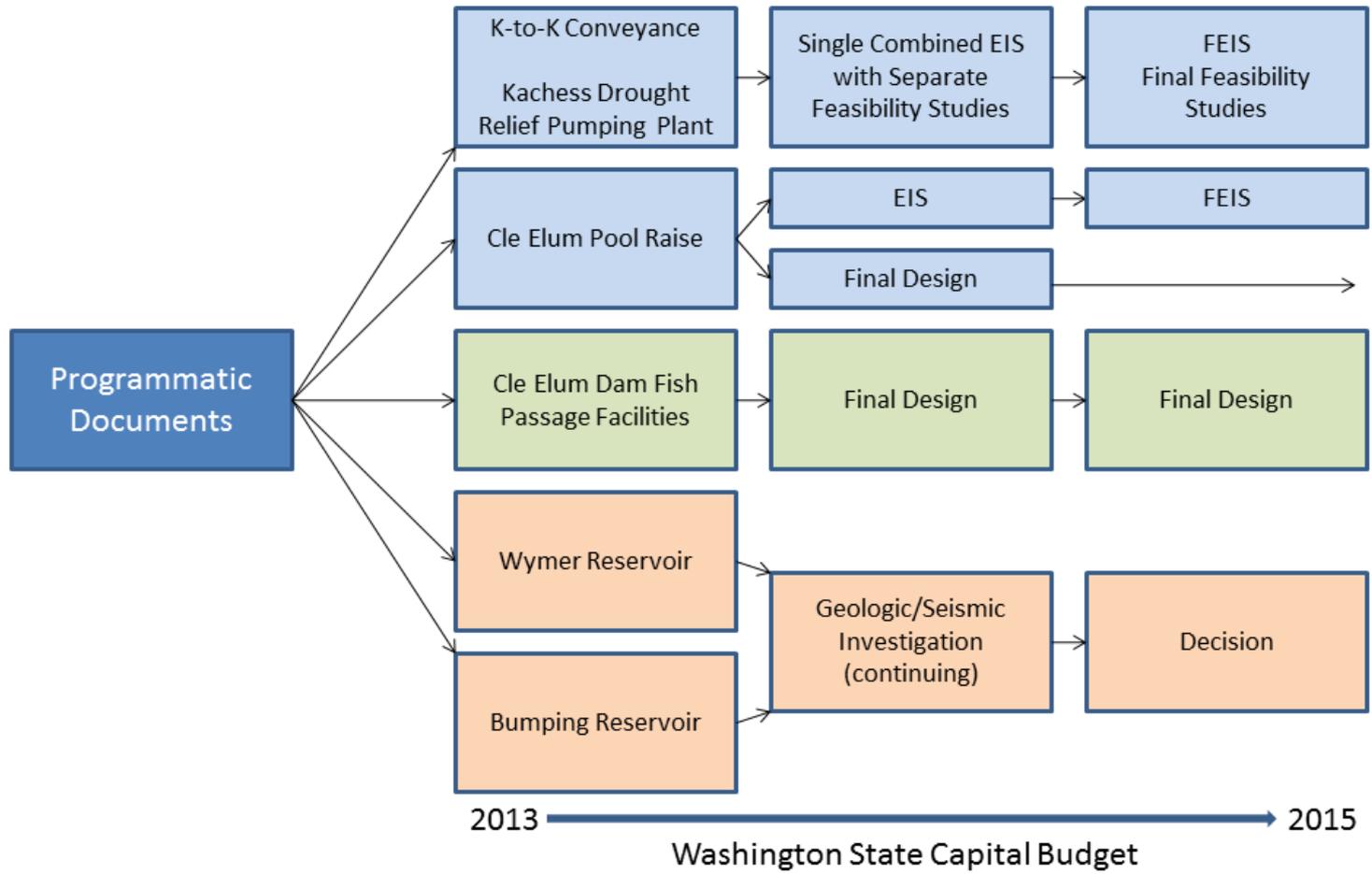
Programmatic Planning Document
Framework for Implementation Document
October 2012

Economics
Four-Accounts Analysis of the Integrated Plan
October 2012



Path Forward July 2013 to June 2015

YRBWEP Phase III (Integrated Plan) Balanced Package #1

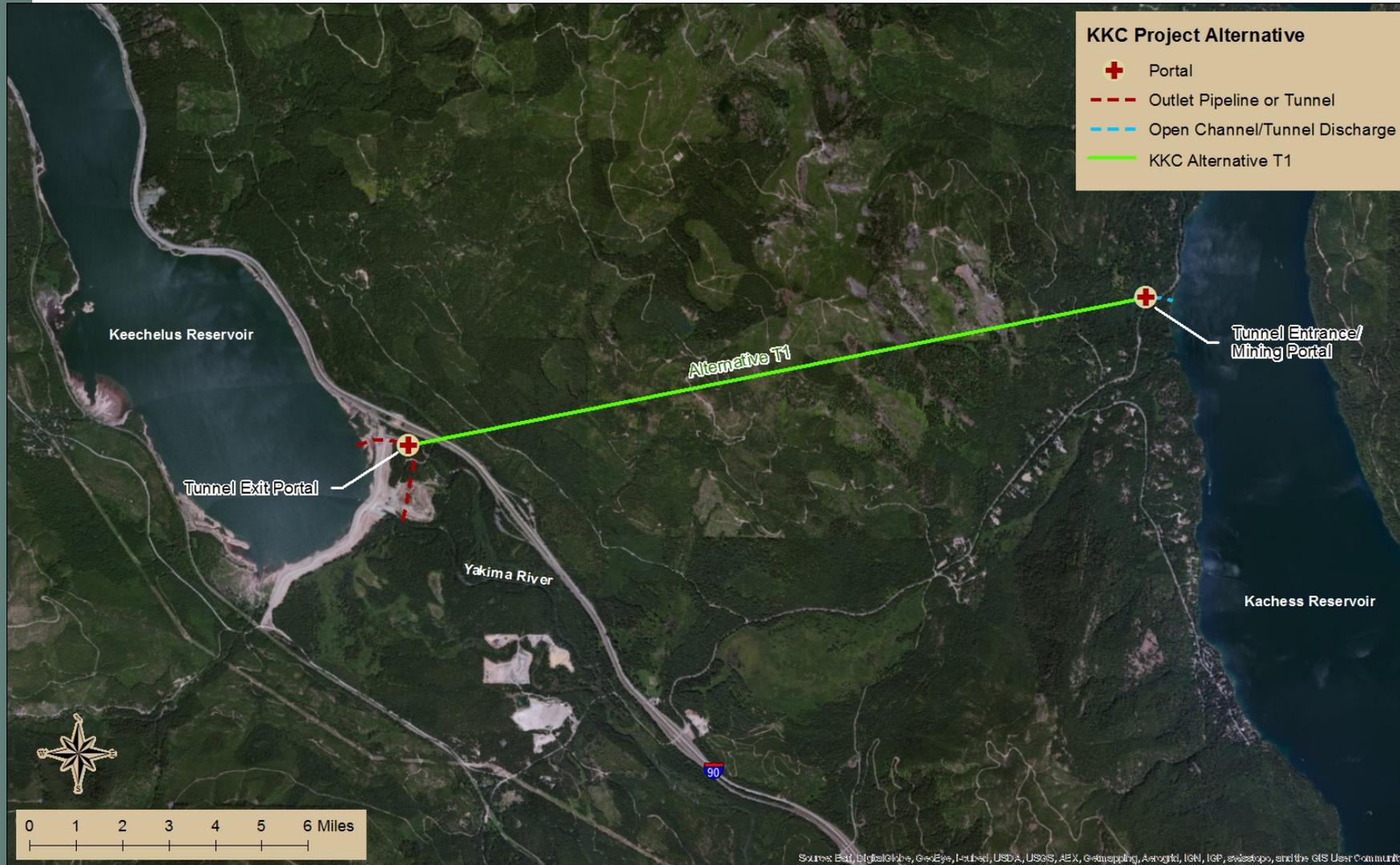


Moving Forward 2013-2015

- Keechelus-to-Kachess Conveyance
- Kachess Drought Relief Pumping Plant
- Cle Elum Pool Raise
- Cle Elum Dam Fish Passage Facilities
- Wymer Dam and Reservoir
- Bumping Dam and Reservoir
Enlargement
- Manastash Creek Conservation and
Tributary Enhancements

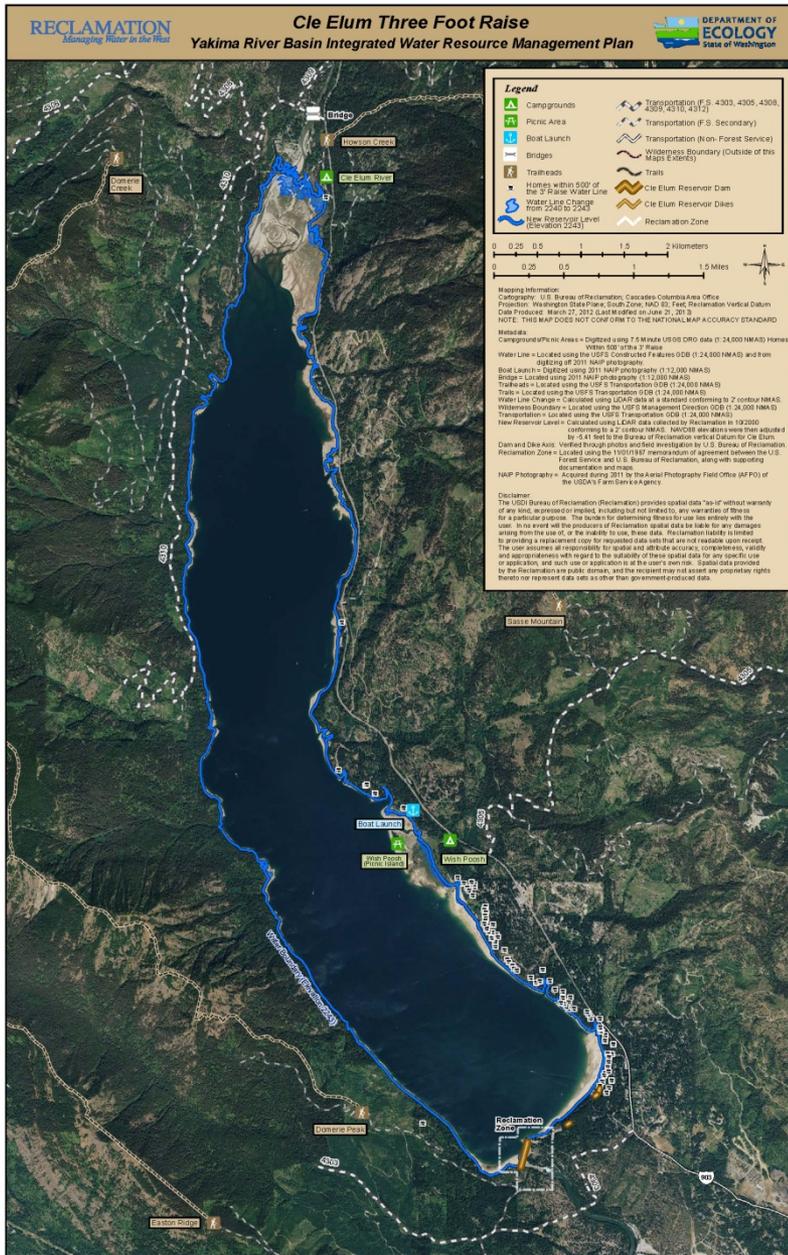


Keechelus-to-Kachess Conveyance



Kachess Drought Relief Pumping Plant





Cle Elum Pool 3' Raise

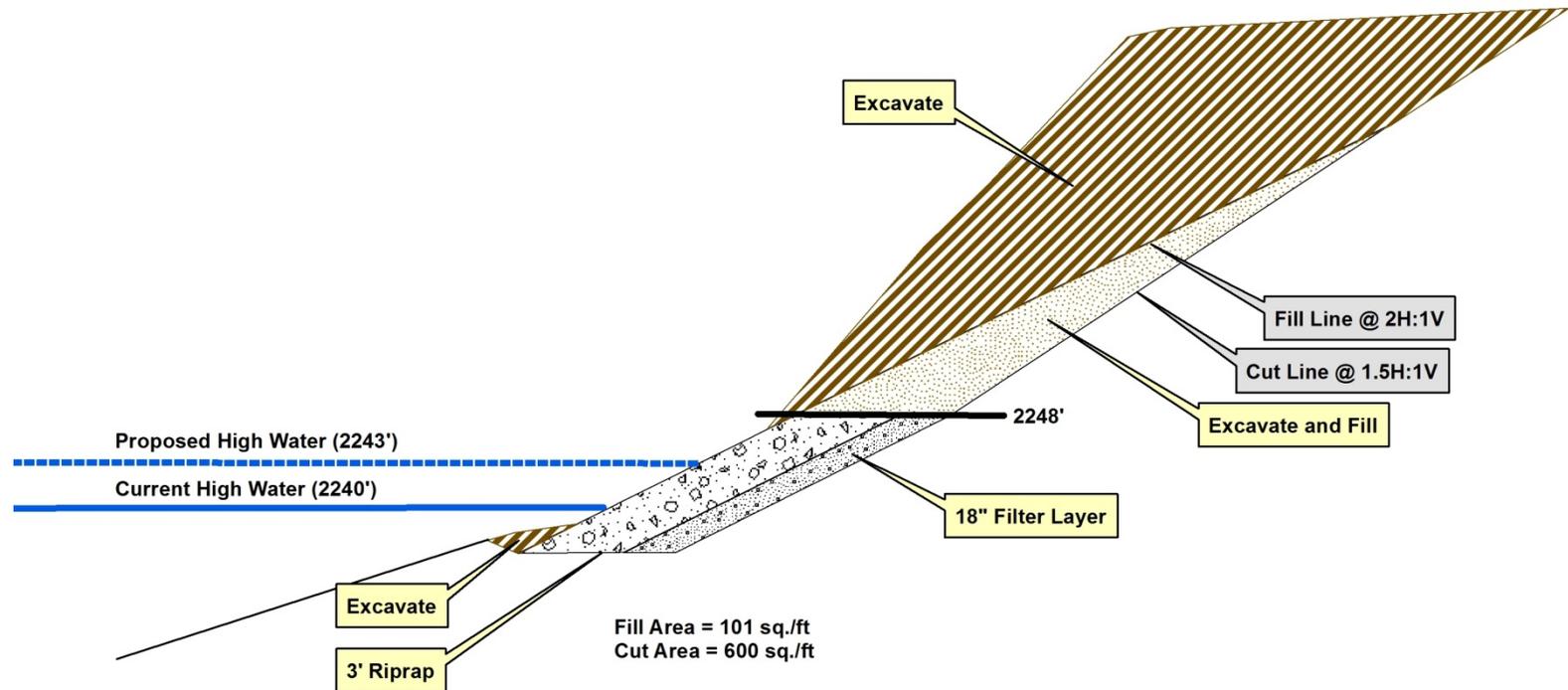
- Modify radial gates
- Shoreline protection / Embankments
- Land acquisition



Cle Elum Radial Gates - Modifications



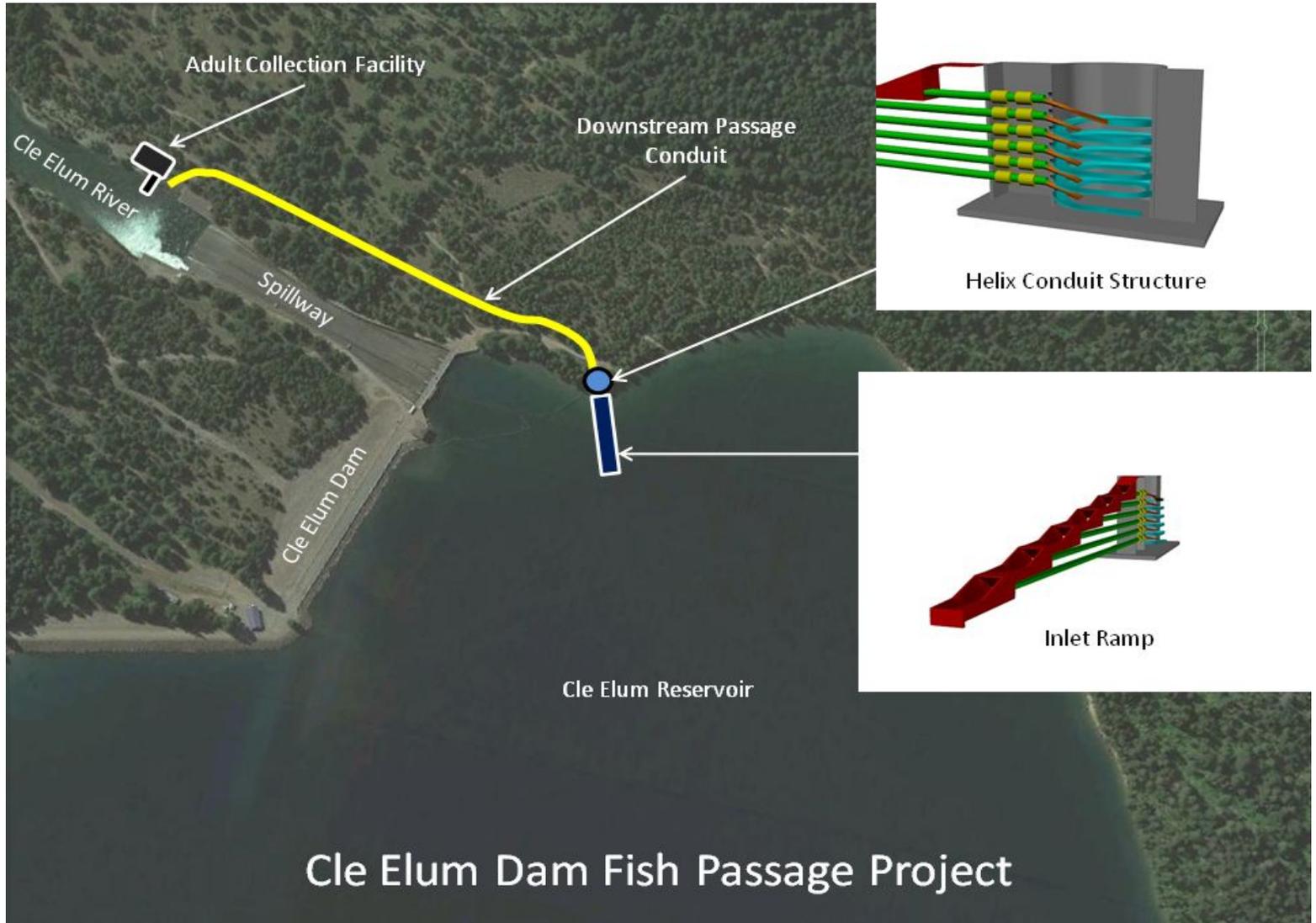
Cle Elum Pool Raise – Shoreline Protection Typical - Cross Section



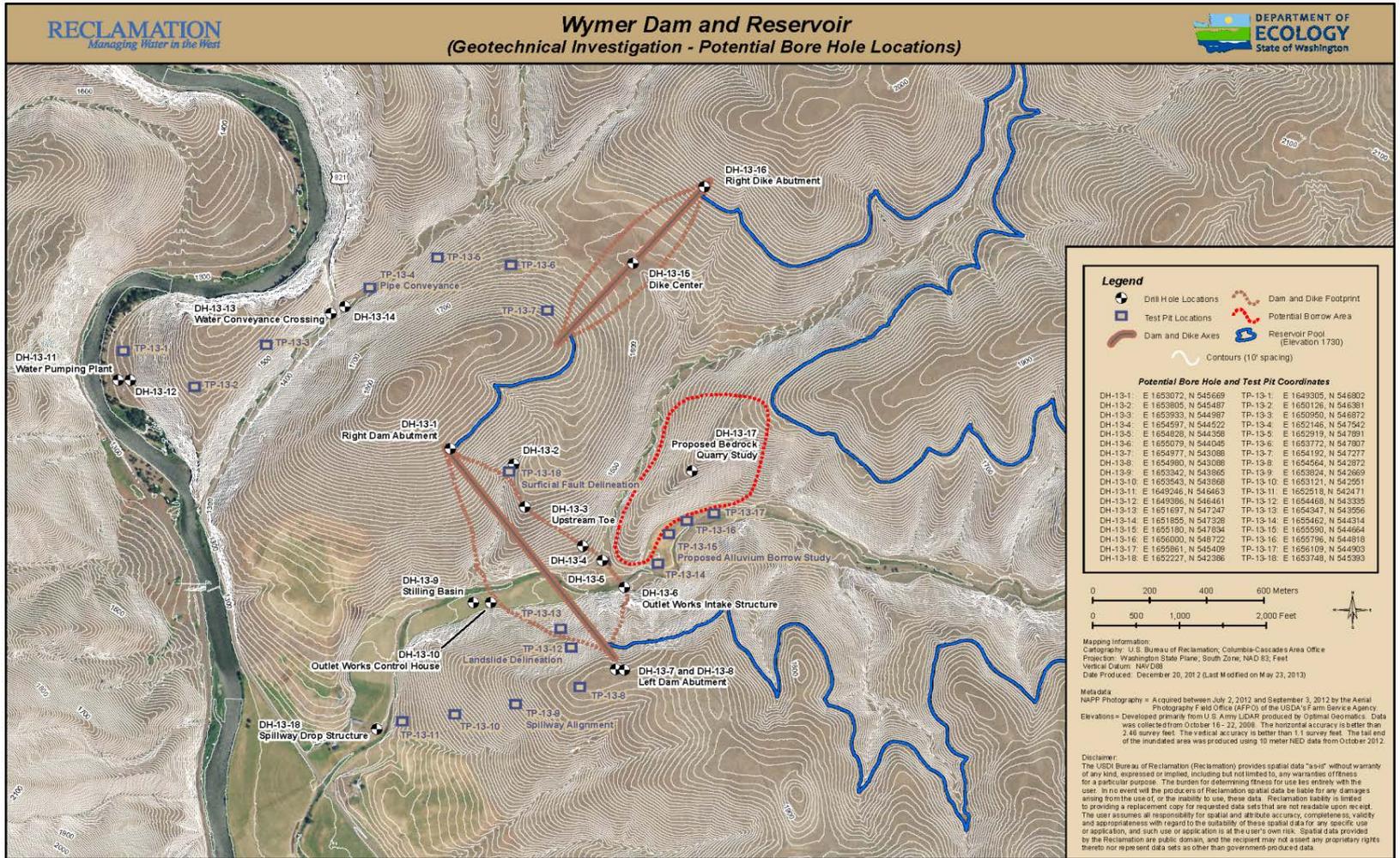
Existing Shoreline



Cle Elum Fish Passage Facilities



Wymer Geotechnical Investigation

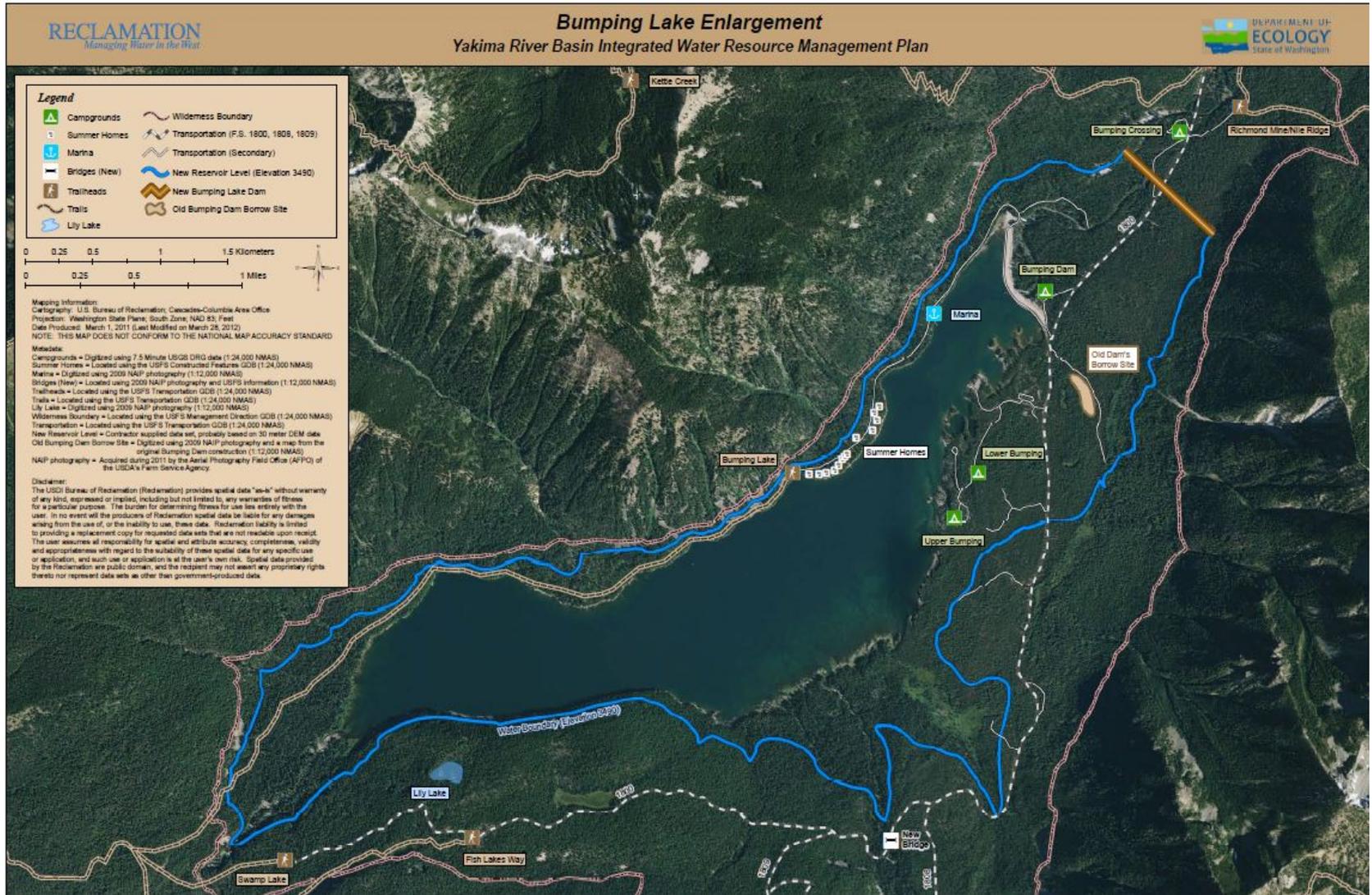


Wymer Geotechnical Investigation

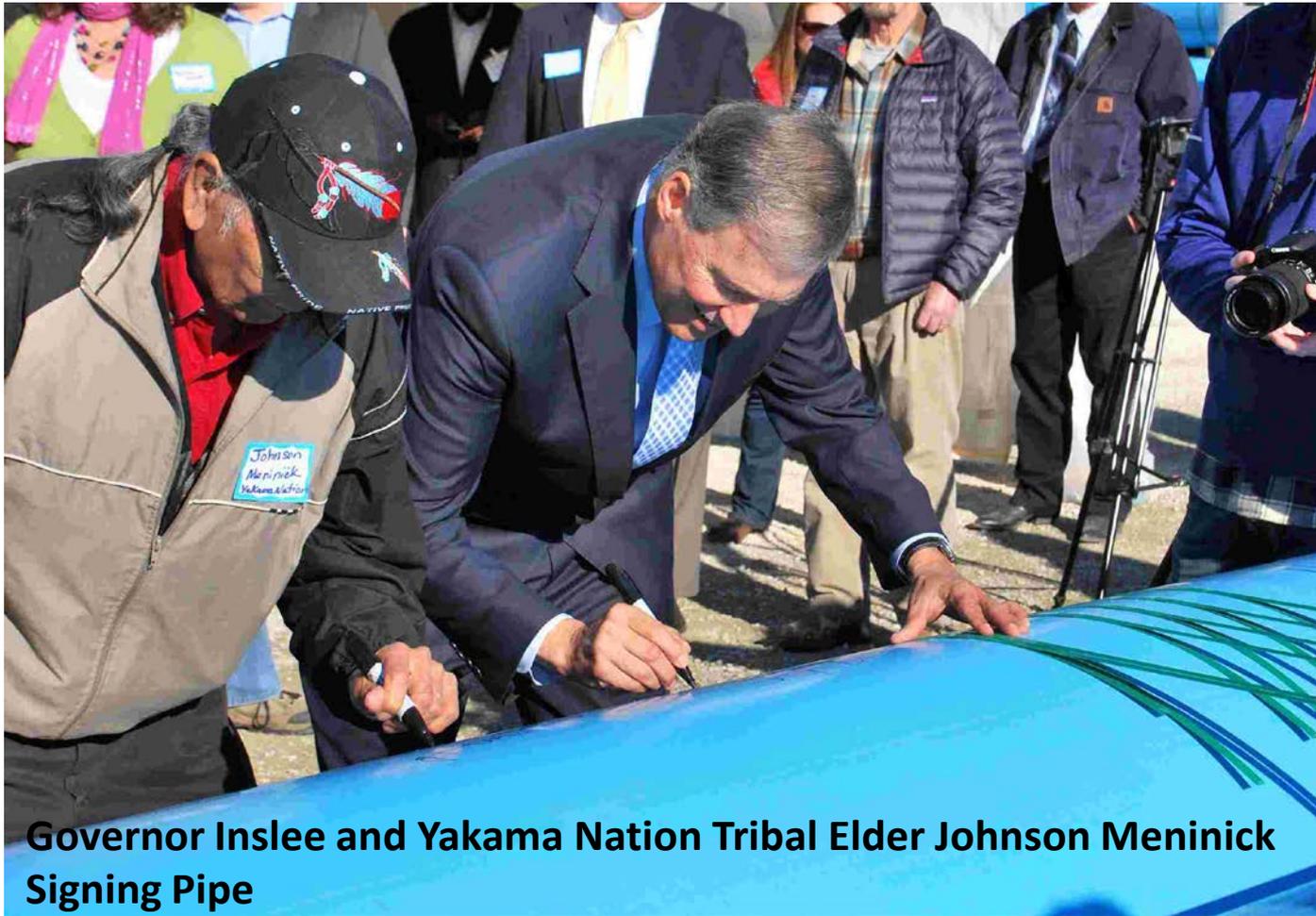
Track-mounted CME 850 drill rig set up on DH-13-2. This is an angle hole.



Bumping Reservoir Enlargement



Manastash Creek Conservation & Tributary Enhancement



**Governor Inslee and Yakama Nation Tribal Elder Johnson Meninick
Signing Pipe**



Manastash Creek Conservation & Tributary Enhancement

Pipe laid out for pipeline between sta. 95+00 to sta. 99-50 at site.



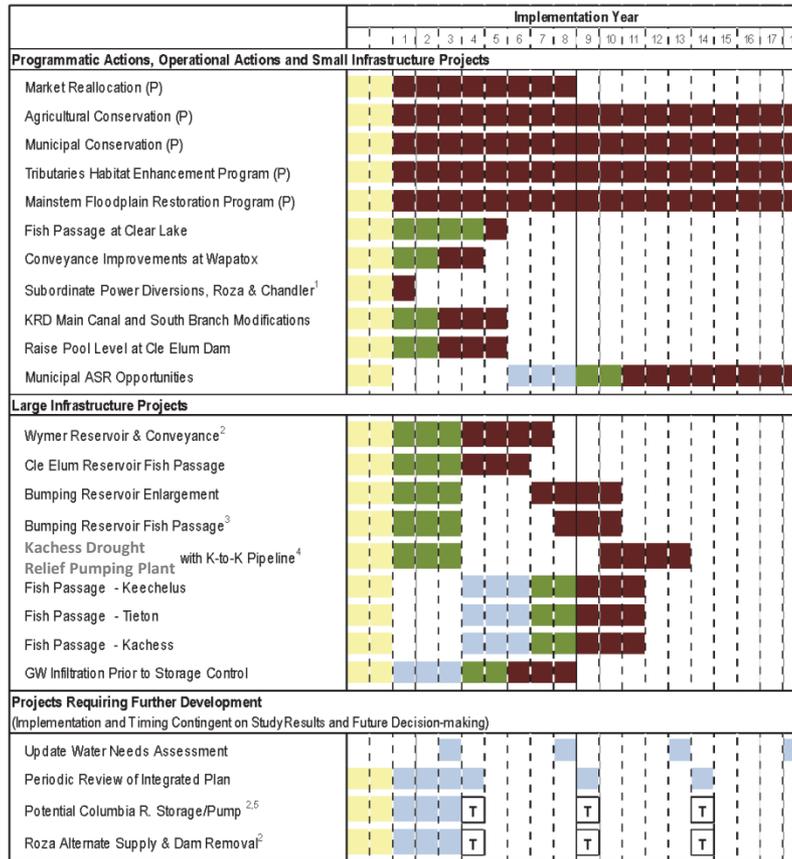
Elements and Associated Actions

ACTION	DESCRIPTION
Fish Passage	
Clear Creek Dam Cle Elum Dam Bumping Lake Reservoir Dam Tieton Dam Keechelus Dam Kachess Dam	Improve upstream and downstream fish passage at Clear Lake Add upstream and downstream fish passage facilities at other dam sites
Structural and Operational Changes	
Raise Pool at Cle Elum Dam KRD Canal Changes Keechelus-to-Kachess Conveyance Subordinate Power at Roza Dam and Chandler Power Plants Wapatox Canal Improvements	3-foot increase in storage pool elevation Reduce seepage and enhance tributary flows Optimize storage between two reservoirs Reduce water diversions to support fish migration Improve efficiency and consolidate diversions
Surface Water Storage	
Wymer Dam Lake Kachess Inactive Storage Enlarged Bumping Lake Reservoir Columbia River Pump Exchange with Yakima Basin Storage	New off-channel reservoir (162,500 acre-feet). Also investigate removal of Roza Dam Tap inactive storage volume (up to 200,000 acre-feet) Enlarge reservoir to 190,000 acre-feet Conduct feasibility study; and periodically evaluate need for additional supplies
Groundwater Storage	
Shallow Aquifer Recharge Aquifer Storage and Recovery	Late winter/early spring infiltration prior to storage control Off-season recharge of municipal supplies
Habitat Protection and Enhancement	
Mainstem Floodplain Restoration Tributaries Habitat Enhancement Targeted Watershed Protection and Enhancements	Program to fund a range of fish habitat projects Program to fund a range of fish habitat projects Program to acquire and protect sensitive lands, including aquatic and terrestrial habitats
Enhanced Water Conservation	
Agricultural Water Conservation Municipal Water Conservation	Program to fund a range of projects Program to fund a range of projects and encourage conservation by residents
Market Reallocation	
Near-term Effort Long-term Effort	Reduce barriers to trading Additional steps to reduce barriers

KRD = Kittitas Reclamation District



Preliminary Implementation Schedule



(P) = Programmatic Actions

T = Assessment of triggers for possible implementation.

¹ Further power subordination subject to approval by Reclamation, BPA, and either Roza or Kennewick Irrigation District, as applicable.

² Roza alternate supply to be considered as part of Wymer Project or storage/pump exchange projects such as Columbia River supply.

³ Timing of fish passage at Bumping Lake could be advanced to an earlier date if an enlarged reservoir is not authorized.

⁴ I-90 crossing of K-to-K Pipeline may be constructed in conjunction with Wash. Dept. of Transportation construction project.

⁵ Step 1 in feasibility study of potential future storage/pump exchange projects.

Color Codes:

- PR / EIS and Authorization (for "trigger" projects, authorize studies)
- Studies
- Project environmental review, permitting & design
- Project Construction or Program Activation



Figure 4. Preliminary Implementation Schedule for the Integrated Plan

Yakima River Basin Water Resource Management Act



Yakima River Basin Water Resource Management Act – SSSB 5367

Purpose

- Improve States' ability to work with federal government and water users to meet the Yakima Basin's future needs

Ecology authorized to implement Integrated Plan

- Protecting and enhancing of fish and wildlife
- Improving availability and reliability of water supplies as well as efficiency of use
- Establishing flexible operational enhancements to prepare for the uncertainties of climate change

Yakima River Basin Water Resource Management Act – SSSB 5367

Water supply provisions

- Water supplies developed through storage allocated for both instream and out-of-stream use
- “Water Supply Facility Permit and Funding Milestone” – Permitting and funding must be in place for one or more water supply facilities to provide at least 214,000 ac-ft of water supply by January 30, 2025
- If “Milestone” not met, Teanaway Valley Acquisition may be transferred from Community Forest Trust to Common School Trust

Yakima River Basin Water Resource Management Act – SSSB 5367

Funding

- State commits to 50% of the cost of Integrated Plan, remaining 50% non-state (federal, local, private)
- Funding ratio does not apply to individual projects
- Ecology and State Treasurer must prepare a cost estimate and financing plan by December 15, 2014

Reporting

- Ecology must submit report to the Governor and Legislature every two years beginning December 1, 2015 and ending in 2045

Legislation does not:

- Pre-authorize any specific project
- Eliminate or reduce requirements for project related analyses or permits

Integrated Plan Element	Preliminary Budget Allocation	2013-2015 Focus
Habitat	\$99,344,000	Outright purchase Teanaway Valley lands. Implement numerous habitat projects*
Fish Passage	\$9,400,000	Cle Elum Reservoir Passage construction ready
Operational Modifications	\$650,000	Prepare K to K pipeline EIS
Surface Storage	\$18,800,000	Kachess Inactive Storage and Cle Elum Pool Raise construction ready
Aquifer Storage and Recovery	\$400,000	Regional siting study. Construct one project*
Water Conservation	\$2,500,000	Construct numerous projects*
Market Driven Reallocation	\$350,000	Develop banking and exchange programs
Total State Contribution	\$131,444,000	

*Additional funding being sought through other sources