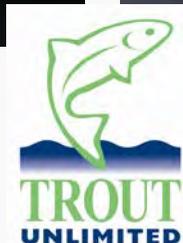


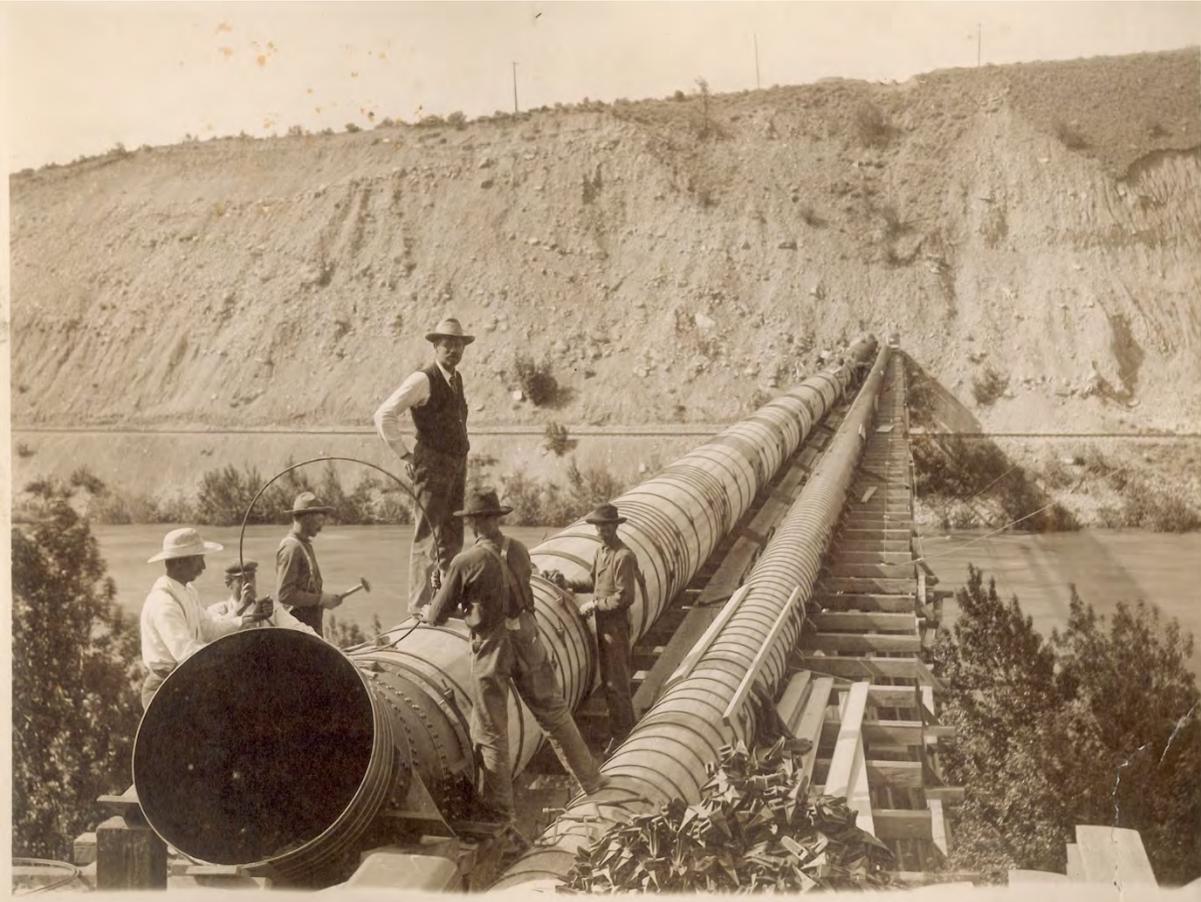
# Pioneer Water Users Association

2/27/2014

Columbia River Program-Policy Advisory Group



# PWUA HISTORY



- Constructed in 1896
- Approximately 10 mile gravity fed system
- Average conveyance of water = 15-20 cfs
- Maximum of 700 acres
- 4<sup>th</sup> largest diversion on Wenatchee

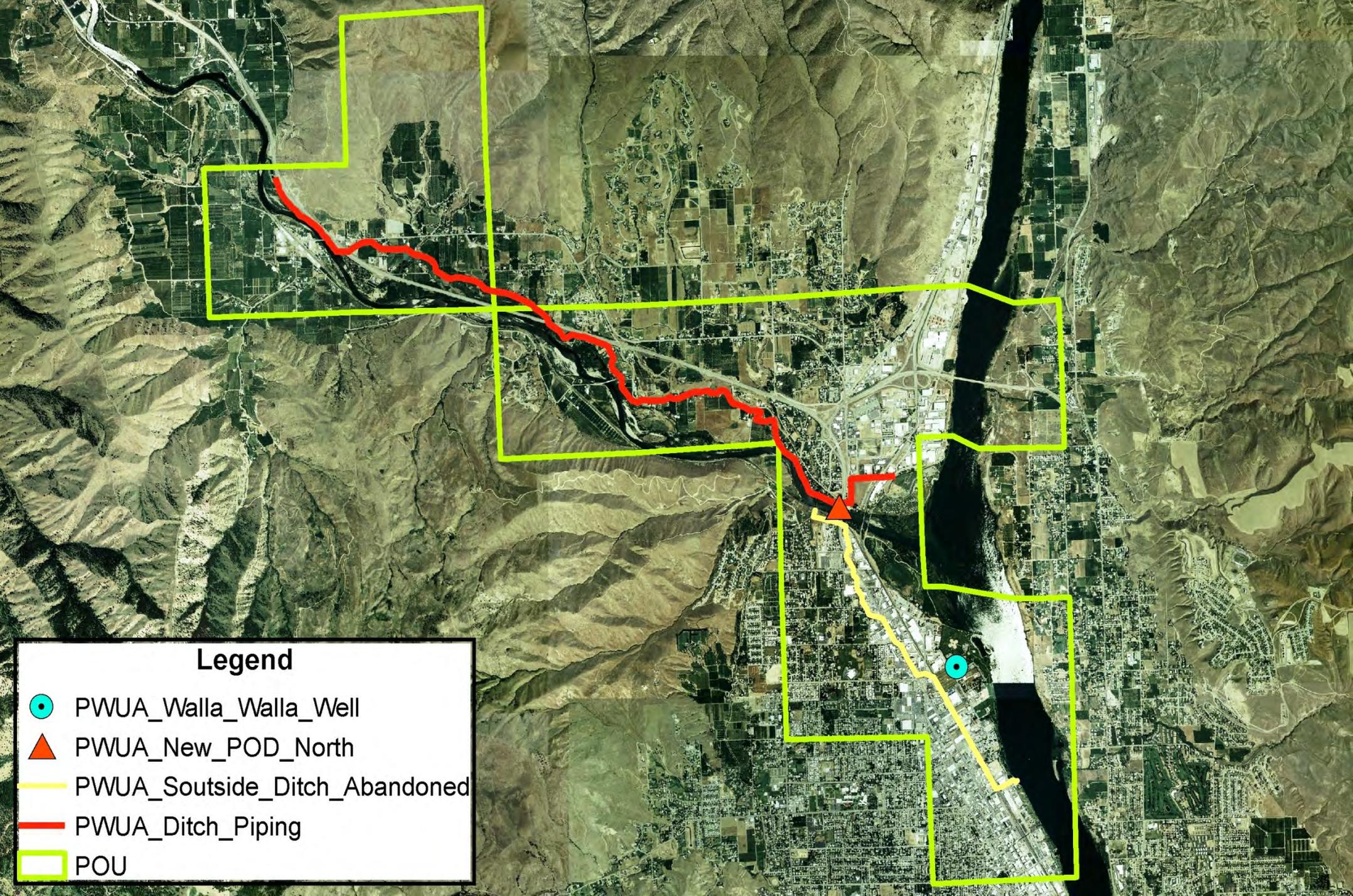
## PWUA 2013



- New POD's on the Columbia
- Approximately 7 Miles of pipeline installed
- Convey water at a maximum of 7.7 cfs,
- Serving 385 total acres
- Maintain Priority Date
- Long term, low cost-water supply

### Legend

-  PWUA\_Walla\_Walla\_Well
-  PWUA\_New\_POB\_North
-  PWUA\_Soutside\_Ditch\_Abandoned
-  PWUA\_Ditch\_Piping
-  POU



# Construction Challenges



- Mass Excavation
- Cofferd Dam
- Fish Screen and Suction Line
- Highway Crossings and siphons (3)
- Constrained work area
- Coordination

# Construction



# Construction



# Construction



# Project Facts

- Over 375 acres of irrigation for 107 users
- Less than 10K per year in operation into the future
- OVER 38 cfs protected instream
- 1 channel spanning dam removed
- Another 100 years of water security for the district
- Municipal Water Supply benefits for Wenatchee
- 12 funders, 3.4 million total cost, 2.95 million for construction, or 87%
- 17 permits secured, including, FERC
- Over 40 Jobs created for 6 months
- Constructed on time and within budget.



# Other Considerations

- New system electric cost less than collective individual pumping- Save Water=Save Energy
- Return flow increase to the Wenatchee from pumping upriver
- 2013-687.25 AF, change approved 1580, historic ~5000
- The reason why BOR estimates are +/- 30%
- Not all contractors are the same
- Funding Constraints
- Outreach and communication on a large scale

