



Other Accomplishments

Bergevin-Williams/Old Lowden Diversion Consolidation & Piping Project

Heavy equipment is used to build gravel push-up dams each year in the Walla Walla River to raise the water level to feed irrigation water into the inefficient Old Lowden and the Bergevin-Williams open canal delivery systems. Even with WA-Dept. of Fish & Wildlife assistance to assure fish passage, rapid changes in flow conditions often resulted in obstructions to fish passage and an imminent threat of "take". To benefit fish, the removal of the two push-up dams/obstructions was made possible through funding by BPA and CTUIR by constructing a new *consolidated* diversion. The new diversion is located adjacent to the Lowden II diversion at the inflatable dam at River Mile 31 on the Walla Walla River. This project was a win-win-win for fish, farmers and both state & federal agencies. The cost for the diversion structure was \$1.1 million. The total project cost including piping is \$3.1 million.



2012 Feature Accomplishment

Gardena Farms Irrigation District #13 2,800 ft. Piping Project

Resource Challenge – Built in 1892, the Gardena Farms Irrigation District #13's open canal delivery system was an amazing engineering feat with 11.55 miles of upper canal and almost 13 miles in its north and south laterals. In 2004, an independent study showed fully 1/3 of the diverted water was lost to seepage. Piping the delivery system was the selected alternative for improving delivery efficiency and for reducing withdrawal demands on the already over-adjudicated Walla Walla River. Due to the sheer magnitude of piping the delivery system, the project was divided into sections. The first phase – the South Lateral Piping Project – was completed by the WWCCD in 2010. The second phase is the North Lateral Piping Project of which the 2,800 foot project is the initial step.



A 48-foot long section of 66-inch diameter HDPE irrigation pipe gets placed in the trench

Project Summary and Results – The 2,800 foot project is that portion of the delivery system immediately upstream from GFID's 1.44 mile long Pine Creek siphon. To deliver the required 75 cfs of irrigation water, 66-inch diameter High Density Poly Ethylene (HDPE) fusion welded irrigation pipe was required. The pipe came in 48-foot lengths (one pipe per truckload). At the upper end of the 2,800 foot project, there will be an automated belt trash screen to keep debris out of the pipeline. It is designed to be unbolted and moved upstream when future piping of the main canal occurs. Total project cost was \$1.177 million. The project cost of the North Lateral project including the 2,800 foot phase is \$4.15 million.

Key Project Partners – Key partners in the 2,800 ft. Piping Project were:

- Bonneville Power Administration (BPA)
- Confederated Tribes of the Umatilla Indian Reservation (CTUIR)
- Gardena Farms Irrigation District #13 Board of Directors (GFID#13)
- Washington Department of Ecology (WA-DOE)
- Walla Walla County Conservation District (WWCCD)

Contact Information

Rick Jones, District Manager
325 North 13th Avenue
Walla Walla, WA 99362
(509) 522-6340 ext. 3
rick.jones@my180.net
www.wwccd.net

Board of Supervisors:

Pat McConnell, Chair
Jeff Schulke, Vice-Chair
Ed Chvatal, Secretary
Todd Kimball, Treasurer
Guy McCaw, Member

More Work To Do

Gardena Farms Irrigation District #13

- North Lateral Piping Project
- Upper Canal Piping Project

Bergevin-Williams/ Old Lowden Irrigation Delivery System Piping Project

Stiller Shallow Aquifer Recharge Project (Phase 2)

Blalock Irrigation District #4 Fish Screen – (under construction)

Jones Fish Habitat Enhancement Project