Water Project Grants and Loans Applications

Project Summaries – 2019 Funding Cycle

June 5, 2019

Background

In 2013, the Oregon Legislature passed Senate Bill 839, establishing the Water Supply Development Account to provide grants and loans for water projects that have economic, environmental and social/cultural benefits. The 2019 application deadline was April 26, 2019. The Department received 14 complete applications requesting a total of $12,341,262 in grant funding.

Document Description

The following are project summaries for complete grant applications received by April 26, 2019 for the 2019 Water Project Grants and Loans funding cycle. The project summaries are adapted from submitted project applications. The application summaries are listed in alphabetical order and page number listed below.

Next Steps

The Department is soliciting public comment on the Water Projects Grants and Loans applications through 5:00 pm on July 16, 2019. Public comments submitted on applications will be considered by the Technical Review Team (TRT). The TRT will evaluate applications and make a funding recommendation to the Water Resources Commission. The Department will post the TRT funding recommendation for an additional public comment period. The tentative date for the Commission to make its funding decision is November 2019.

More Information

If you have questions please contact Grant Program Coordinator, Becky Williams, at 503.986.0869 or WRD_DL_waterprojects@oregon.gov.

2019 Applications

Calapooya Creek Conservation Project

Project Information (adapted from application)

Applicant Name: Green Valley Farm and Logistics, LLC

County: Douglas

Funding Requested: $155,106 Grant

Total Project Cost: $206,808

Project Summary: The proposed project would convert approximately 80 acres of a 96 acre water right from hand-line irrigation, cattle and hay production; to approximately 60 acres of agricultural crops utlizing water efficient drip lines; improving water management and crop productivity on privately owned Calapooya creekside land in Douglas County. The project would improve instream flows for Endangered Species Act listed species; winter steelhead, cutthroat trout, coho and fall chinook in the Calapooya Creek by legally protecting approximately 0.48 cfs instream, through the Allocation of Conserved Water Program. Collaboration with the CREP program in a multi-year plan would help restore the natural ecosystem of the river bank riparian areas and water quality of the Calapooya Creek through the removal of invasive plants, replanting of native shrubs, trees and bird box installations.

By switching from cattle and hay production to agricultural crops and utilizing climate smart farming practices, greenhouse gas emissions and further bank erosion are anticipated to decrease. Additionally, anticipated project outcomes would directly address identified instream needs and result in the eventual lowering the temperature of the creekside from the replanting of riparian areas, a reduction in fertilizer runoff, and salmon habitat restoration. Finally, by using the Green Valley property as a demonstration farm, in school programs such as Oakland High School's Future Farmers of America, students would be actively engaged in learning about water conservation techniques and promoting future local efforts.

Canal Avenue Water Project

Project Information (adapted from application)

Applicant Name: Rogue Community College

County: Josephine

Funding Requested: $1,500,000 Grant

Total Project Cost: $2,000,000

Project Summary: The proposed project would connect Rogue Community College's (RCC) Redwood Campus to the City of Grants Pass water system on Canal Avenue via 1,500 linear feet of pipe and construct a booster pump station for both domestic supply and fire mitigation. This water infrastructure would serve a new science building and provide water to existing RCC facilities on the Redwood Campus. The project would significantly increase the amount of water available to fight fire at the heavily wooded 84 acre RCC Redwood Campus, as the college is currently classified by the Oregon Health Authority as a Small Water System and is not connected to the City's water infrastructure. Water available for firefighting is limited to the current water stores of approximately 200,000 gallons. The connection of RCC to the city's water system is a critical step to protect the college and begin the process of being annexed into the City which is needed to support further campus growth.

City of Chiloquin New Well and Meter Replacement Project

Project Information (adapted from application)

Applicant Name: City of Chiloquin

County: Klamath

Funding Requested: $661,000 Grant

Total Project Cost: $4,025,500

Project Summary: The main goal of the proposed project includes the relocation of the City of Chiloquin's water supply well from 1,000 feet to 1.2 miles from the Williamson River (tributary to Klamath Lake). The project infrastructure would include a new well, well house, 8,000 feet of buried 10-inch PVC pipe and new water meters throughout the City. Relocating the well is anticipated to reduce the groundwater effects on surface water in the Williamson River, enhancing instream flows for the endangered Lost River and Shortnose Suckers. Additionally, new water meters throughout the City would assist City public works employees in managing water distribution to reduce wasteful water use and accurately account for water use.

Highland Ditch Piping Project

Project Information (adapted from application)

Applicant Name: Badger Improvement District

County: Wasco

Funding Requested: $2,250,000 Grant

Total Project Cost: $3,000,000

Project Summary: This proposed project would pipe roughly 14,000 ft. of irrigation ditch with a 30-inch PVC or HDPE pipe. The current open ditch is in steep terrain, and surrounded by the Badger Creek Wilderness Area in the Mt. Hood National Forest. The ditch is difficult to access and repair and is subject to possible washout due to debris filling the ditch. As this ditch is the main supply of irrigation water to farmers in the area, a ditch failure would threaten the economic stability of agriculture in the area. Additionally, installing a pipe would help prevent washouts which would negatively affect fish habitat in Badger Creek due to large amounts of dirt and debris filling the creek. Because of leaching and seepage in the existing ditch, the project proposes to legally protect up to 0.5 cfs of conserved water in Badger Creek through the Allocation of Conserved Water Program, and improve the overall efficiency of Badger Improvement District's irrigation system.

Ladera Piping Project

Project Information (adapted from application)

Applicant Name: Arnold Irrigation District

County: Deschutes

Funding Requested: $207,408 Grant

Total Project Cost: $314,548

Project Summary: The proposed project area is comprised of an approximate 7,090 linear feet of the Ladera Lateral open canal commencing at the diversion from the Arnold Canal. The overall goals are to conserve water through system improvements in this high water loss region of Central Oregon. System piping is the primary method proposed. First Arnold Irrigation District (AID) would excavate the canal and bed the canal with reject dirt mixture. The project, as proposed, would then excavate and build wing walls, a head weir box, and transition boxes within the proposed project boundary. Three Sisters Irrigation District would contribute by providing pipe welding assistance. After the pipe is laid, backfilling, grading and reseeding would be conducted. AID would then install all hardware for weir boxes and delivery gates. The project proposes to improve stream flows by returning a portion of the conserved water instream through the Allocation of Conserved Water Program.

Madras Downtown Distribution Main Replacement Project

Project Information (adapted from application)

Applicant Name: City of Madras

County: Jefferson

Funding Requested: $900,000 Grant

Total Project Cost: $1,200,000

Project Summary: The proposed project, identified as a priority in the City's 2015 water master plan, would replace approximately 2,200 linear feet of existing undersized (4-inch and 6-inch) municipal water distribution mainline with a new 12-inch distribution main to reduce water main loss, improve efficiency in the delivery system, and provide adequate flows and pressures to increase fire flow capability for fire safety to the downtown commercial area of Madras. In addition, this project would replace six fire hydrants, add isolation valves at blocks where none exist, and replace 23 dilapidated service connections. This work would occur within existing street infrastructure within a three block radius of the Madras Downtown Commercial District.

Mosier Deep Water Supply Well #2

Project Information (adapted from application)

Applicant Name: Wasco County SWCD and Wade Root

County: Wasco

Funding Requested: $671,724 Grant

Total Project Cost: $906,910

Project Summary: This project would complete construction of the second of two deep wells, which would result in removal of the two largest irrigators from the compromised aquifers in the Mosier Groundwater Withdrawal Area, with anticipated reductions in withdrawals from the upper Columbia River Basalt (CRB) aquifers by between 660 and 990 acre feet per year. Completion of this project is anticipated to increase the long-term availability of the groundwater supply for Mosier's vital agricultural community and for the community at large, with the potential to also benefit water quantity and quality in Mosier Creek. These actions along with other ongoing efforts are anticipated to stabilize and eventually reverse the groundwater declines experienced in the Mosier area.

North Plains - Water Reservoir No. 2 and Pump Station

Project Information (adapted from application)

Applicant Name: City of North Plains

County: Washington

Funding Requested: $1,250,000 Grant

Total Project Cost: $7,600,000

Project Summary: The proposed project includes redesigning a 1 million gallon (MG) tank to 2 MG as well as constructing the reservoir, pump station and implementing a new SCADA (Supervisory Control and Data Acquisition) control system. The proposed goal is to help address the City's storage needs. The deployment of a 2 MG tank (instead of the currently designed 1 MG) would provide for water storage needs through the City's 20 year Water System Master Plan period, based on current requirement for maintaining storage equal to three days of average daily demand. The on-site pump station would provide 1,300 gallons per minute with standby power generation to allow it to continue operation even during power outages. The SCADA system would communicate via radio or fiber optic between the existing reservoir, the water intake line, the master control panel in City Hall, and the newly proposed reservoir. This control system would ensure the best information on the water system is available to notify staff of water system usage and the best time to purchase water to run the pumps most efficiently.

Old Owyhee Ditch Improvement District Automation Spill Ways

Project Information (adapted from application)

Applicant Name: Old Owyhee Ditch Improvement District and Malheur SWCD

County: Malheur

Funding Requested: $200,851 Grant

Total Project Cost: $323,251

Project Summary: The goal of the proposed project to develop system wide automation on the Old Owyhee Canal. It is anticipated to economically reform the irrigation district's water management system and gain efficiency within the interrelated irrigation district's systems. The approach would include:

- Increased delivery efficiency projects through:
    - Automation of head gate and spillway structures to conserve water
    - Maintained infrastructure integrity
- On the system wide basis, water efficiency is anticipated to yield information on water trading between irrigation districts

Prineville Airport Area Aquifer - ASR Project ASR Well #1

Project Information (adapted from application)

Applicant Name: City of Prineville

County: Crook

Funding Requested: $1,800,000 Grant

Total Project Cost: $12,235,572

Project Summary: The proposed grant application project is to construct the City's dedicated Aquifer Storage and Recovery (ASR) injection and recovery Well #1 and 2,500 feet of conveyance piping to connect the well to the City's system, which is part of the City's larger overall ASR Program. The City's dedicated ASR Well #1 is located near the Crook County Airport within the Lower Crooked River Basin, and if funded would be scheduled for construction in 2020 and would represent the culmination of several years of extensive efforts by the City to implement the ASR feasibility and implementation planning. This dedicated ASR well is anticipated to play a key role in the City's overall ASR Program by allowing the annual storage of an additional 261 MG of water (801 AFY) that would be used to meet the City's growing peak summertime water demands, and in turn encourage economic development in the region and ease peak demand stress on existing water sources.

Quail Ridge Irrigation Renovation and Conservation Project

Project Information (adapted from application)

Applicant Name: City of Baker City

County: Baker

Funding Requested: $884,981 Grant

Total Project Cost: $1,179,974

Project Summary: Project would include the rehabilitation of the irrigation system at Quail Ridge Golf Course located in the Powder Basin Watershed. The project would consist of a new mainline, lateral lines, electrical wiring, sprinkler heads and control system. The project is anticipated to preserve a valuable recreation asset and conserve water.

Smith Ditch Water Delivery Improvement

Project Information (adapted from application)

Applicant Name: Baker Valley Soil and Water Conservation District

County: Baker

Funding Requested: $590,902 Grant

Total Project Cost: $799,152

Project Summary: The proposed project would pipe the most troublesome section of the ditch with the goal of conserving water and protecting the ditch from future breaches into Baker City which could result in the loss of the ability to use the ditch and irrigate 2,230 acres of agricultural land. A 3,550-foot section of open ditch would be replaced with 48-inch DR 41HDPE fusion welded pipe that would be installed in the existing ditch for all but one portion of the project area. The pipeline, access hatches, vents, and water user withdrawal pipes would be installed per design. Regular flow measurements to determine the exact ditch loss would be conducted in the year leading up to the pipeline installation and the project proposes to legally protect 100% of the live flow amount (estimated currently at 0.53 cfs) permanently instream through the Allocation of Conservd Water Program.

Stanfield Irrigation District Efficiency Project

Project Information (adapted from application)

Applicant Name: Stanfield Irrigation District

County: Umatilla

Funding Requested: $286,000 Grant

Total Project Cost: $423,500

Project Summary: The proposed project aims to conserve groundwater by using allocated surface water from the Columbia River instead of well water for irrigation purposes. This goal would be accomplished by connecting a pipeline from the East Improvement District (EID) and running it to the Stanfield Irrigation District's Canal. With this pipeline, 4,460 acres of irrigated agriculture would be able to use their primary water rights from SID longer and more efficiently before having to switch to their secondary well water rights. This project would also allow SID to pull less water from the Umatilla, leaving more water in the river. It is also anticipated that the project would also save on electric power pumping costs from the operation of deep water wells.

Upper Philips Fish Passage and Irrigation Efficiency Project

Project Information (adapted from application)

Applicant Name: Applegate Partnership, Inc.

County: Jackson

Funding Requested: $983,290 Grant

Total Project Cost: $1,357,267

Project Summary: The Little Applegate River Fish Passage and Irrigation Efficiency Project would restore fish passage by creating a bypass channel around the Upper Philips Dam, install a new fish screen, and improve irrigation efficiency with a water savings of over 85% through piping 1.8 miles of irrigation ditch with 18-inch diameter PVC-pipe in order to provide water to 11 small-farms and residences in Jackson County within the Rogue River Basin. The project is anticipated to improve irrigation infrastructure, improve agricultural production, allow production of additional acres, improve water quality, and enhance fish passage and instream flows for Endangered Species Act-listed and State-listed species including Coho salmon, Pacific lamprey, steelhead, and cutthroat trout. The project proposes to dedicate conserved water instream through the Allocation of Conserved Water Program for the benefit of aquatic species in a DEQ-listed flow-limited stream.