Willamette Water Supply Program

Our Future Water Supply

Tualatin Valley Water District (TVWD) and the City of Hillsboro, collectively referred to as the Partners, have identified the Willamette Water Supply System as the best option for future delivery of drinking water to their service areas in Washington County. Development of the Willamette Water Supply System is being led by the Partners. Other water providers in the region are also looking at their options for future participation. The mid-Willamette River at Wilsonville will be the new water supply source for the Willamette Water Supply System. Although current demands are met through other sources, the addition of a new source will provide improved water supply reliability and system resiliency. Developing an additional water supply through a partnership supports the region’s plans for responsible growth within the urban growth boundary.

124th Avenue Partnership Project

The 124th Avenue Partnership Project is a 2.7-mile pipeline and new roadway project located in Washington County from Day Rd. to Tualatin-Sherwood Rd. In the last few months, more than 9,600 linear feet of pipe has been installed along SW Tonquin Rd. and SW 124th Ave. This summer, pipe installation along both roads will be complete, and installation will continue south on SW Grahams Ferry Rd. Road construction will also continue on SW Tonquin Rd., SW 124th Ave., and Tualatin-Sherwood Rd. Construction completion is anticipated late this year.

Geotechnical Investigations

Geotechnical investigations are essential to delivering the Willamette Water Supply System, as more than 30 miles of pipe is being installed at depths ranging from approximately 13 to 20 feet. It is important for design consultants to fully understand and characterize the subsurface conditions around the pipeline alignment. Geotechnical investigations are performed by geotechnical engineers through soil sampling and laboratory testing to:

1) Obtain information on the physical properties of soil and rock along the pipeline alignment.

2) Evaluate potential geotechnical and seismic risks/issues.

3) Provide geotechnical design and construction recommendations.

Geotechnical investigations and site exploration consists of drilling operations and collecting soil samples from boreholes at several depths and different locations along the alignment. The soil samples and rock cores obtained during site exploration and drilling are sent to a laboratory for testing to identify soil characteristics, including moisture content, density, permeability, shear and compression strength, corrosion properties (pH), etc. To date, more than 280 borings have been completed.
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Procurement & Business Opportunities

WWSP staff are preparing for several upcoming professional services and construction contractor procurements. Listed below are active procurements and upcoming events and procurements. Procurement opportunities are also published at [http://www.ourreliablewater.org/business-opportunities](http://www.ourreliablewater.org/business-opportunities).

### Active Procurements

- N/A

### Upcoming Events and Procurements

- Scholls Area Pipeline Project (PLM_5.1) Construction Invitation to Bid (ITB) by Washington County (Quarter 2, 2018)
- Distributed Controls System (DCS_1.0) Design Request for Proposal (RFP) (Quarter 2, 2018)
- Distribution System Water Quality RFP (Quarter 2, 2018)
- Wilsonville Area Pipeline Project (PLM_1.1) Construction ITB (Quarter 3, 2018)
- Water Treatment Plant and Finished Water Pump Station (WTP_1.0/FPS_1.0) Construction Manager/General Contractor RFP (Quarter 4, 2018)

### Schedule Summary

WWSP design and planning began in 2013; the Willamette Water Supply System is expected to be in service by July 2026. Below are the major milestones and activities forecasted from 2018 to 2021*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.

*The actual order and duration of projects continues to be refined and is subject to change.
Cumulative Cost Summary

WWSP cumulative costs are tracked and updated monthly. The chart below summarizes the distribution of cumulative costs through April 2018.

Cumulative Water Supply Program costs to date are approximately $71 million, with the majority spent on planning, engineering, construction, and real estate activities.

Forecast Cost Summary

The graph below illustrates the projected WWSP cash flow by fiscal year (FY July 1 to June 30)*. The cumulative cash flow establishes the budgeted $1.2 billion, which accounts for actual and current projected costs, including projected escalation in the cost of labor, materials, and equipment required to build the projects that comprise the WWSP.

Costs for FY 2018 are $26 million. Cumulative costs are projected to be $93 million through the end of FY 2018.

*Data continues to be refined and is subject to change.
Willamette Water Supply System Water Treatment Plant
(Water Treatment Plant (WTP))
Description: 60-million gallon per day water treatment plant (WTP_1.0), including a finished water pump station (FPS_1.0) and a control system (DCS_1.0) located near Sherwood.
Status: Planning Phase (WTP/FPS Design Start: 08/2018)
Planning Phase (DCS Design Start: 10/2018)

Raw Water Facilities Expansion
(Raw Water Facilities (RWF) Expansion)
Description: Expansion of the existing raw water pump station and intake infrastructure at the Willamette River WTP (WRWTP) in Wilsonville to 60 million gallons per day of initial capacity for the Willamette Water Supply System.
Status: Design Phase (Construction Start: 06/2020)

For more information about the WWSP, visit www.ourreliablewater.org or call 503.941.4570.