

## 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.

# Willamette Water Supply

## Our Reliable Water

Monthly Progress Report

Month End November 2018

### Water Supply Integration

Integrating the new water source into existing systems is a critical part of the WWSP. Although integration will not occur until 2026, Willamette Water Supply Program (WWSP) staff are preparing now for this important effort. WWSP has contracted with Confluence Engineering Group LLC (Confluence), a small, woman-owned business based in Seattle, WA to manage water quality risks and water quality integration planning. Confluence has earned a reputation as a national expert in addressing exactly the types of issues that WWSP may face. They will perform the following integration

planning work:

- Develop an understanding of the WWSS transmission system and downstream TVWD and City of Hillsboro distribution systems.
- Perform water quality related testing to understand how the new source will interact with existing sources.
- Develop an integration plan for WWSS and both the TVWD and City of Hillsboro systems.
- Develop communications materials to inform the community on the purpose and integration process.



### WWSS Permitting Reaches Milestone

On December 6th, the U.S. Army Corps of Engineers (USACE) issued a permit to the WWSP for Section 10 of the Rivers and Harbors Act, 33 U.S.C. § 403, and Section 404 of the Clean Water Act, 33 U.S.C. § 1344. This permit authorizes impacts to waters of the U.S. waters associated with constructing the WWSS. This permit approval represents several years of coordination with USACE and other federal and state agencies, as well as Native American tribes. Through consultation with USACE, the agencies and tribes have reviewed and provided comment on design of the WWSS, with several already providing approvals and permits for the WWSP under

their own authorities. These include a Biological Opinion and Incidental Take Statement from the National Marine Fisheries Service, a Water Quality Certification from the Oregon Department of Environmental Quality, and a Programmatic Agreement with USACE and the Oregon State Historic Preservation Office. Each of these approvals and permits includes conditions that will govern construction of the WWSS in the future and help avoid, minimize, and mitigate impacts to environmental and cultural resources. WWSP staff look forward to ongoing coordination with USACE as design and construction of the WWSS continues in 2019.

Revised 12/11/18

## 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>.

### Active Procurements

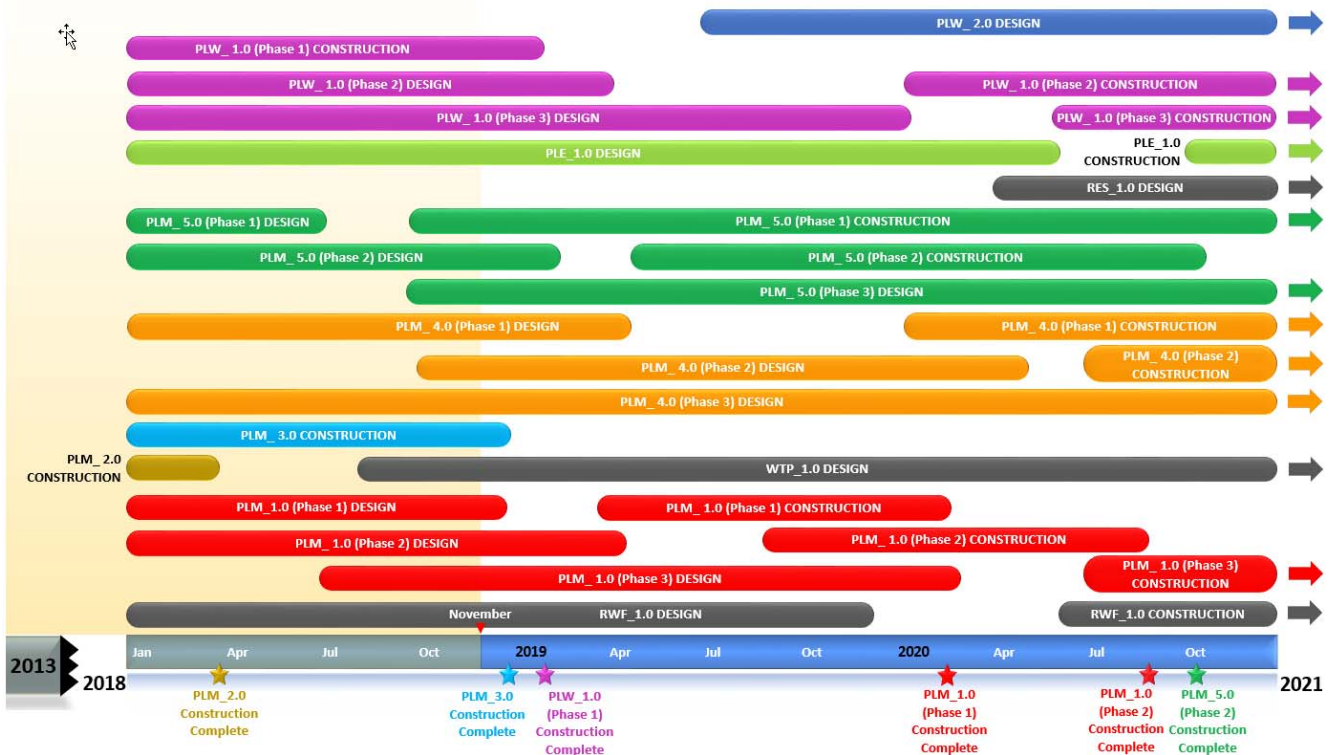
- No active procurements

### Upcoming Events and Procurements

- Scholls Area Pipeline Project (PLM\_5.2) Construction Invitation to Bid (ITB) (Quarter 1, 2019)
- Wilsonville Area Pipeline Project (PLM\_1.1) Construction ITB (Quarter 1, 2019)
- Cornelius Pass Pipeline Project (PLW\_2.0) Design Request for Proposal (RFP) (Quarter 1, 2019)

## Schedule Summary

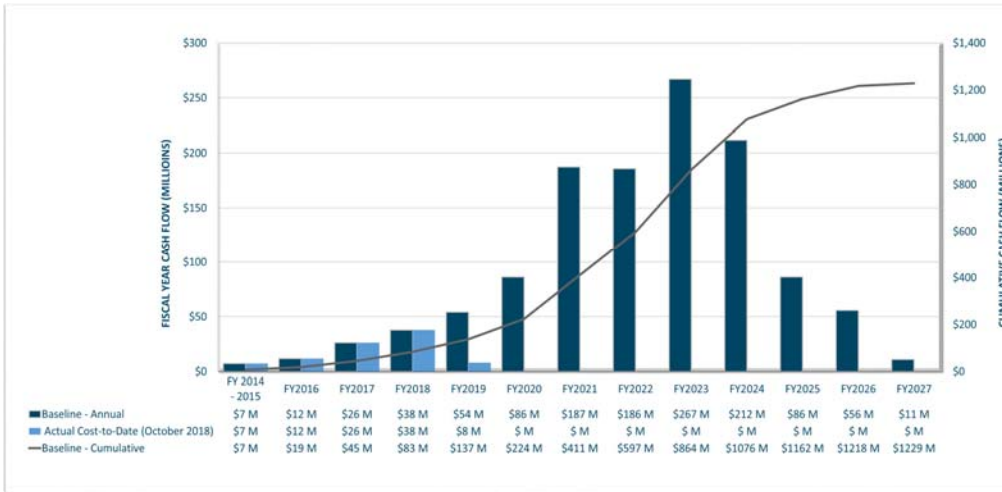
WWSP design and planning began in 2013; the Willamette Water Supply System is expected to be in service by July 2026. Below are the major milestones and activities forecasted from 2018 to 2021\*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.



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

## 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 WWSP projects.



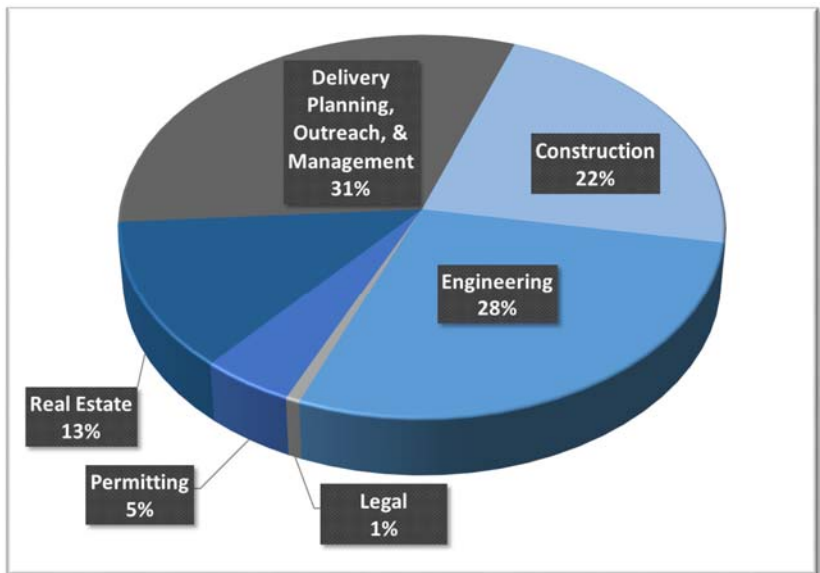
Costs for FY 2019 are \$8 million. Cumulative costs are projected to be \$137 million through the end of FY 2019.

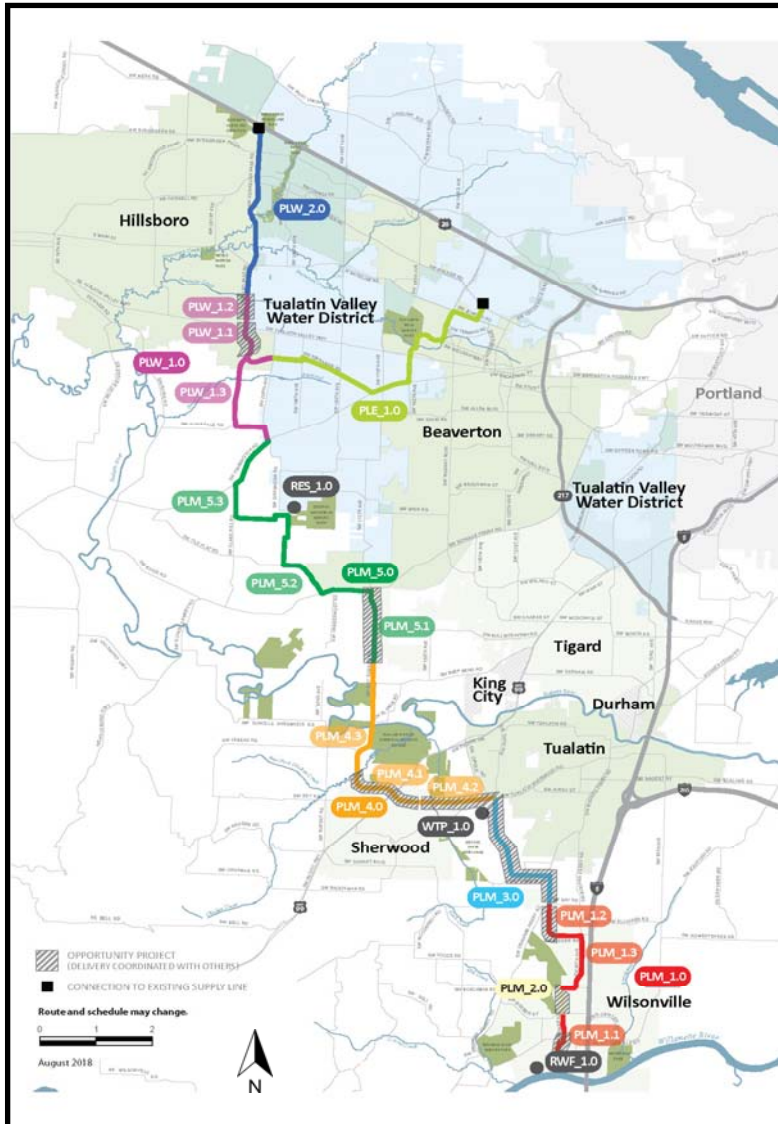
*\*Data continues to be refined and is subject to change.*

## Cumulative Cost Summary

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

**Cumulative Water Supply Program costs to date are approximately \$91 million, with the majority spent on planning, engineering, construction, and real estate activities.**





**WTP\_1.0 Willamette Water Supply System Water Treatment Plant**  
(Water Treatment Plant (WTP))

**FPS\_1.0** *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.

**DCS\_1.0** *Status:* Planning Phase (WTP/FPS Design Start: 08/2018)  
Planning Phase (DCS Design Start: 10/2018)

**RWF\_1.0 Raw Water Facilities Expansion**  
(Raw Water Facilities (RWF) Expansion)

*Description:* Expansion of the existing raw water pump station and intake 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](http://www.ourreliablewater.org) or call 503.941.4570.*

**PLW\_2.0 Cornelius Pass Pipeline Project**  
(Frances Road to Highway 26)

*Description:* 3.4-mile water pipeline along Cornelius Pass Rd. from Frances Rd. to Hwy 26; connects to existing supply lines for City of Hillsboro and TVWD.

*Status:* Planning Phase (Design Start: 07/2019)

**PLW\_1.0 South Hillsboro Area Pipeline Project**  
(Farmington Road to Frances Road)

*Description:* 3.9-mile water pipeline from SW Farmington Rd. at SW 209th Ave. to Cornelius Pass Rd. at Frances Rd.; also east on Kinnaman Rd. between Cornelius Pass Rd. and SW 209th Ave.

*Status:* Construction Phases (Phase 1 Construction Complete: 11/2018; Phase 2 Construction Start: 01/2020)

**PLE\_1.0 Beaverton Area Pipeline Project**  
(SW 209th Avenue to Walker Road)

*Description:* 5.5-mile water pipeline from SW 209th Ave. at Kinnaman Rd. to SW Cedar Hills Blvd.; connects to existing TVWD system.

*Status:* Design Phase (Construction Start: 10/2020)

**RES\_1.0 South Beaverton Area Water Storage Tanks** (Storage Tanks)

*Description:* Two 15-million gallon storage tanks located on Cooper Mountain.

*Status:* Planning Phase (Design Start: 04/2020)

**PLM\_5.0 Scholls Area Pipeline Project**  
(North of Beef Bend Road to Farmington Road)

*Description:* 7.2 mile water pipeline from SW Roy Rogers Rd. 0.5-mile north of SW Beef Bend Rd. to SW Farmington Rd. at SW 209th Ave.

*Status:* Construction Phase (Phase 1 Construction Start: 09/2018; Phase 2 Construction Start: 04/2019)

**PLM\_4.0 Tualatin-Sherwood Area Pipeline Project**  
(SW 124th Avenue to north of Beef Bend Road)

*Description:* 5.3-mile water pipeline from 124th Ave. at SW Tualatin Sherwood Rd. along SW Roy Rogers Rd. to 0.5 miles north of SW Beef Bend Rd.

*Status:* Design Phase (Phase 1 Construction Start: 11/2019)

**PLM\_3.0 124th Avenue Partnership Project**  
(SW 124th Avenue Extension)

*Description:* 2.7-mile water pipeline from Grahams Ferry Rd. at Day Rd. to 124th Ave. at SW Tualatin Sherwood Rd.

*Status:* Construction Phase (Complete: 12/2018)

**PLM\_2.0 Kinsman Road Partnership Project**  
(Kinsman Road Extension)

*Description:* 0.5-mile water pipeline along Kinsman Rd. between Barber St. and Boeckman Rd.

*Status:* Complete

**PLM\_1.0 Wilsonville Area Pipeline Project**  
(WRWTP to Day Road)

*Description:* 3.0-mile water pipeline from WRWTP to the intersection of SW Garden Acres Rd. at Day Rd.

*Status:* Design Phase (Phase 1 Construction Start: 03/2019)