



## Capital Improvement Program

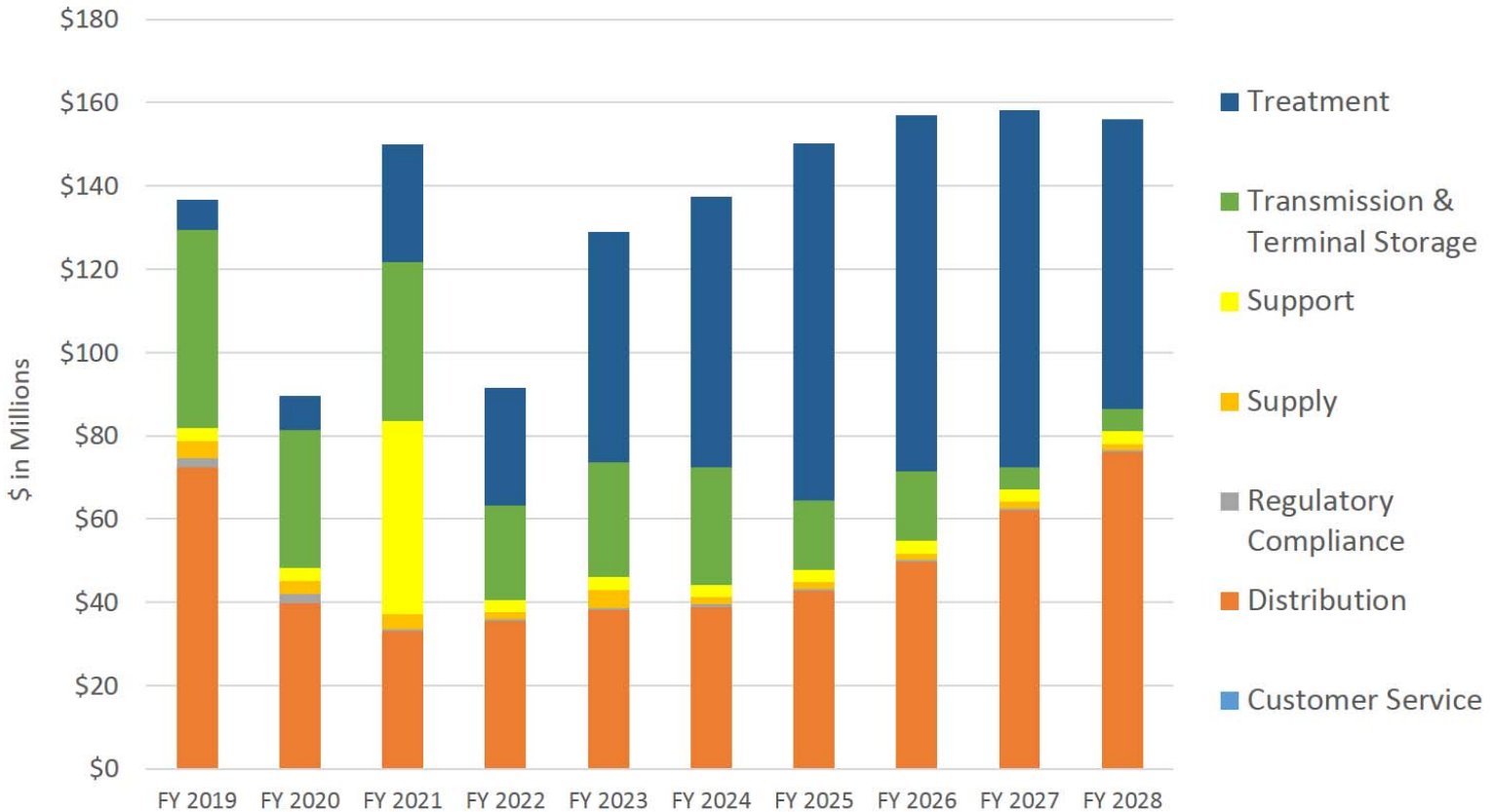
Capital program planning at the Water Bureau is a collaborative effort among CIP Planning, Asset Management, and Engineering teams. The primary drivers of the bureau’s capital work are ensuring the reliable functioning of the drinking water system, replacing assets that are at or near the end of their useful lives, and achieving compliance with federal and state drinking water regulations. The bureau combines asset-management planning with master planning and other types of studies to recommend the most effective mix of capital projects for a five-year budget cycle.

- PWB MAJOR BUDGET PROGRAMS**
- Customer Service
  - Distribution
  - Regulatory Compliance and Water Quality
  - Supply
  - Support
  - Transmission and Terminal Storage
  - Treatment

### FY 2017-18 CIP Program Comparison

	FY 2017-18 Adopted CIP	FY 2017-18 Revised CIP	FY 2018-19 Requested CIP
Customer Service	\$0.4 Million	\$0.8 Million	\$0.1 Million
Distribution	\$38.5 Million	\$32.8 Million	\$72.4 Million
Regulatory Compliance	\$2.3 Million	\$1.8 Million	\$2.1 Million-
Supply	\$5.8 Million	\$2.7 Million	\$4.2 Million
Support	\$2.9 Million	\$3.1 Million	\$3.0 Million
Transmission and Terminal Storage	\$58.0 Million	\$32.3 Million	\$47.6 Million
Treatment	\$1.4 Million	\$1.4 Million	\$7.4 Million

## 2018–28 Requested 10-Year CIP by Program



## FY 2018-19 New Major Projects

For Fiscal Year (FY) 2018-19, the bureau proposes to begin \$12 million in new projects including an upgrade to the Powell Butte Reservoir 1 root, disinfection improvements at Washington Park, water main relocation projects in partnership with other bureaus and SCADA information system upgrades.

	Initial Total	FY 2018-19 Amount
Wheeler Basin	\$0.8 Million	\$55,000
Sunnyside North	\$1.1 Million	\$790,000
Outer Powell	\$2.0 Million	\$1,749,000
SCADA System	\$1.4 Million	\$1,100,000
WP Hypochlorite System	\$1.7 Million	\$188,000
PB1 Roof	\$6.1 Million	\$125,000

- The **NE Wheeler Basing Relocations Project (\$832,000)** will install approximately 1200 feet of replacement main in an area that BES is constructing sanitary sewer improvements.
- The **Sunnyside North Reconstruction Project (\$1.1 million)** will install about 1500 feet of water main improvements in support of BES sanitary sewer improvements
- The **Outer Powell Transportation Safety Project (\$1.97 million)** will relocate about 2400 feet of 8-inch main in coordination with roadway safety improvements by ODOT.
- The **SCADA System Upgrade 2017 (\$1.14 million)** project will replace all PWB Supervisory control and data acquisition (SCADA) machines (11 servers and 25 workstations) and upgrade the OASyS SCADA application software.
- The **WA Park Hypochlorite Improvements (\$1.74 million)** will design and construct new feed systems for hypochlorite and aqueous ammonia and make upgrades to the existing chlorine building to improve safety and accommodate expanded operation.
- The **Powell Butte Reservoir 1 Roof Upgrades (\$6.06 million)** will construct multiple structural improvements to the Powell Butte Reservoir 1 (PBR1) roof, including removal of existing overburden; a new rubberized cover; new perimeter concrete aprons around the existing opening, and a new drainage system above the roof.

## Updates

- Spring BMP will propose decreasing the overall FY 2017-18 CIP by \$34.4 million based on year-end spending projections. Two projects account for most of the revision. Cash flow for Washington Park Reservoir 3 has been replanned to align with the construction sequence. Work continues to obtain the needed easements for the Willamette River Crossing project, delaying the start of construction.
- The high level of requested improvements in support of development work continues to impact the resources available for PWB planned projects.
- **Sandy River Outfall, Vivian Groundwater Improvements, Headworks Generator Improvements and Headworks Scrubber projects** have all been canceled for now. +Bull Run surface water supply.
- **Water System Filtration project (\$500 million)** Work to prepare the basis of design report and other planning effort has commenced.
- The **Corrosion Improvement Project (\$20 million)** work continues to develop the initial design of the improvements.

# FY 2017-18 Major Project Status

Program in city budget	Proj Def	Name	Phase	Planned Completion Date	FY 17-18 YTD Expenses	FY 2017-18 Budget	FY 2017-18 Current Plan	Project Percent Complete
Customer Service	W02178	Cayenta Upgrade	040 Construction	2/5/18	\$481,908	\$318,000	\$769,000	62%
Distribution	W01547	Sellwood Bridge	050 Closeout	6/29/18	\$20,602	\$0	\$30,000	90%
Distribution	W01358	Fulton Pump Station Improvements	050 Closeout	10/30/17	\$129,793	\$0	\$170,000	100%
Distribution	W02134	Columbia Slough Outfall 104b	040 Construction	4/23/18	\$114,008	\$0	\$896,000	65%
Distribution	W02115	NE 47th Ave and Columbia Blvd LID	030 Design	5/13/19	\$13,636	\$0	\$44,000	60%
Distribution	W02004	Penridge Mains	030 Design	1/5/21	\$91,753	\$230,000	\$155,000	27%
Distribution	W01848	Council Crest Tank Roof Replacement	030 Design	9/5/19	\$139,490	\$502,000	\$167,000	52%
Distribution	W01446	Greenleaf Pump Station	040 Construction	2/15/19	\$1,087,611	\$1,000,000	\$1,240,000	79%
Distribution	W02237	Sunnyside North Reconstruction	030 Design	2/25/20	\$99,672	\$0	\$140,000	18%
Distribution	W02100	Humboldt Sewer Repair	050 Closeout	3/21/18	\$113,627	\$0	\$114,000	100%
Distribution	W02105	NE 49th and Roselawn Bundle	030 Design	4/5/21	\$23,630	\$127,000	\$68,000	10%
Distribution	W02073	SW Boones Ferry Rd at SW Arnold St Bridge	030 Design	12/6/19	\$27,642	\$356,000	\$78,000	39%
Distribution	W02107	Fulton Pump Mains Replacement	030 Design	11/3/22	\$21,737	\$60,000	\$60,000	11%
Distribution	W01842	N Jantzen Ave west of Pavilion	030 Design	6/5/20	\$13,641	\$19,000	\$18,000	64%
Distribution	W01682	Cornell Road Services - Macleay Park	050 Closeout	5/1/18	\$739,526	\$0	\$811,000	100%
Distribution	W02077	SE 20th Ave Oak St north of SE Pine St	055 Warranty	5/22/18	\$178,146	\$330,000	\$395,000	100%
Distribution	W01924	Outer Powell Transportation Safety	030 Design	2/5/21	\$94,086	\$0	\$161,000	54%
Distribution	W02005	Willamette Blvd Bridge Main Replacement	030 Design	12/8/21	\$31,494	\$860,000	\$120,000	46%
Distribution	W02192	NE Wheeler Basin Relocations	040 Construction	5/17/19	\$195,496	\$0	\$755,000	68%
Distribution	W01590	Willamette River Pipe Crossing	030 Design	3/4/21	\$904,475	\$6,600,000	\$1,278,000	77%
Distribution	W01880	SW Vista Ave from Spring St to Laurel St	055 Warranty	9/19/18	\$805,339	\$766,000	\$811,000	100%
Supply	W02003	Headworks Septic System Replacement	040 Construction	10/31/18	\$443,670	\$410,000	\$658,100	73%
Supply	W01875	Road 10H MP 10.95 - 12.56	030 Design	11/30/18	\$46,889	\$1,018,000	\$60,000	70%
Supply	W01371	Improvements	040 Construction	2/19/19	\$95,736	\$550,000	\$514,000	75%
Supply	W01874	Road 10R MP 28.77 - 31.85	030 Design	12/2/19	\$113,093	\$740,000	\$142,000	50%
Supply	W02021	Microwave Communications System	040 Construction	1/29/19	\$42,209	\$1,626,000	\$221,414	72%
Supply	W02001	Dam 1 Needle Valve Replacement	030 Design	4/29/20	\$162,233	\$252,000	\$284,000	54%
Transmission & Terminal Storage	W01524	Tabor Reservoir Adjustments	050 Closeout	10/2/17	\$6,766	\$159,000	\$159,000	99%
Transmission & Terminal Storage	W02057	Conduit 3 Internal Inspection	040 Construction	4/24/18	\$705,816	\$62,000	\$817,000	95%
Transmission & Terminal Storage	W02006	Gresham Conduit 2 Trestle Upgrades	030 Design	6/29/20	\$183,036	\$655,000	\$298,000	51%
Transmission & Terminal Storage	W01402	Washington Park Reservoir 3	040 Construction	3/29/24	\$19,317,988	\$54,100,000	\$29,000,000	54%
Transmission & Terminal Storage	W02209	Conduit 2 Internal Inspection	040 Construction	12/21/18	\$660,166		\$1,493,000	55%
Treatment	W02229	Water System Filtration	020 Planning	7/25/28	\$359,253	\$0	\$910,000	6%
Treatment	W02190	Corrosion Control Improvements	030 Design	9/9/22	\$110,402	\$910,000	\$533,000	14%