

FY2015-2021 Capital Investment Program

S-16 Sewer Pump Station Improvements

Category: **Sewer**
Department: **Utilities**

Status: **Ongoing**
Location: **Pump stations throughout the Sewer Utility's service area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget	FY 2020 Budget	FY 2021 Budget
20,600,491	12,181,491	512,000	1,340,000	2,310,000	1,075,000	1,097,000	1,090,000	995,000

Description and Scope

This ongoing program funds rehabilitation of the 36 pump and 10 flush stations in Bellevue's wastewater system. Stations are prioritized based on the risk and consequence of failure, maintenance and operations experience, pump station age, and coordination with other projects. Stations scheduled for work in 2015-21 include: Lake Heights, Wilburton, Cedar Terrace, Lake Hills #17, Cozy Cove, Parkers, Evergreen East, Evergreen West, Fairweather, Hunt's Point, Lake Hills #6, and Lake Hills #7. Historically this program funded rehabilitation of one station per year. Two stations/year are planned beyond 2017 since the electrical and mechanical equipment in them will have reached their 25-30 year useful life. Analysis of 25 stations is currently underway to improve the forecast needs for schedule and cost, and could result in reprioritization of scheduled stations.

Rationale

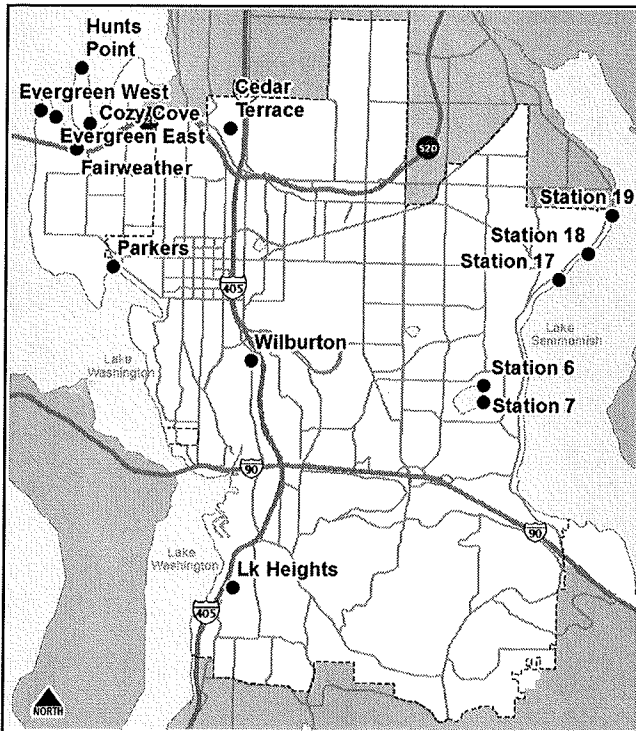
Much of the sewage collected from homes and businesses passes through one or more of 36 pump stations and 10 flush stations (in-lake, low-pressure facilities that periodically 'flush' the nearly-flat sewer lakelines with lake water.) Although some flush station components may last longer than 25 years, pumps and electrical system replacement is needed every 25 years. Complete station replacement is needed every 75 to 100 years. Beyond service life, components fail more frequently, technology becomes obsolete, and parts replacement becomes difficult or impossible. Bellevue's commitment to a healthy environment, as well as state and federal laws require that we minimize pump station overflows; repeated violations can result in sanctions. Station rehabilitation improves reliability and safety, reduces the risk of system overflow and failure, and reduces the liability associated with such failures.

Environmental Impacts

The majority of the improvement work will be within the existing pump stations and no substantial environmental impacts are anticipated. The State Environmental Protection Act (SEPA) determinations (typically Determinations of Non-Significance) and exemptions from Shoreline regulations are obtained as required for each pump station as it is upgraded.

Operating Budget Impacts

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	1985 - 2021	20,600,491
Total Budgetary Cost Estimate:		20,600,491

Means of Financing

Funding Source	Amount
Utility Rates/Fees	20,600,491

Total Programmed Funding: 20,600,491
Future Funding Requirements:

Comments