

FY2019-2025 Capital Investment Program

S-71 Sewer Lakeline Alternatives Analysis

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

Status: **New**
 Location: **Sewer Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2019 Budget	FY 2020 Budget	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget
581,000	-	260,000	159,000	162,000	-	-	-	-

Description and Scope

Programmatic alternatives analysis of the replacement, rehabilitation or reconfiguration of Lakeline sewer pipe along the Lake Washington shoreline, including evaluation of a pilot project of 4,700 lineal feet of pipe along the north peninsula of Evergreen Point in Medina. The alternatives analysis is needed to determine the future scope, schedule and budget needed to replace this conveyance system and determination of its phasing. This work will include a programmatic Lake Line Planning Document that will include policies, phasing and strategies recommended for the lake lines, including the Evergreen Point Lakeline pilot project.

Rationale

The existing conveyance system consists of pipe that is predominantly 8-inch Asbestos Cement with a small amount of Cast Iron. Both pipe materials for the Lakeline were built in the 1950s and 1960s. The Sewer Lake Line Condition Assessment 2016 Phase 2 report took pipe samples on 18 locations along the Lake Washington Lakeline. These pipe samples provide data that will help with prioritization of pipe replacement or rehabilitation throughout the next several decades. In addition to pipe condition, the programmatic Lakeline evaluation will need to include other factors such as technical, environmental and community considerations. Pilot projects are anticipated, such as the Evergreen Point Lakeline project, to assess feasibility and learn from actual project experience and build in that learning for future projects. The results of the programmatic alternatives analysis will result in a lake line phasing and budget request for future Lakeline projects.

Environmental Impacts

Failure of the Lakeline will adversely affect the aquatic environment in Lake Washington by discharging sanitary sewage into the lake. This is not only a human health risk, but a potential adverse impact on the nearshore spawning habitat for salmonids in Lake Washington.

Operating Budget Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Project Map**Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	2019 - 2021	581,000

Total Budgetary Cost Estimate: 581,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	581,000

Total Programmed Funding: 581,000
Future Funding Requirements:

Comments