

**W-109 Richards Road Inlet Supply Station Improvements**

Category: **Water**  
 Department: **Utilities**

Status:  
 Location: **Water Service Area**

**Programmed Expenditures**

Programmed Expenditures	Appropriated To Date	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget	FY 2020 Budget	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget
500,000	-	500,000	-	-	-	-	-	-

**Description and Scope**

Richard's Road Inlet Station is a critical facility constructed in 1975 to deliver water from Seattle's regional system to Bellevue. It supplies water directly to the RV300, WD400, WD450, WD340 water pressure zones, and is the source of water to fill the Woodridge Reservoir. The associated pressure reducing valve (PRV) reduces pressure to water that is supplied to the RV300 zone, and also controls flow to the Woodridge reservoir. This critical facility has old components that require increasingly frequent maintenance; the existing mechanical and electrical components are outdated and in need of replacement. Due to the risk and consequence of failure, station replacement is required. This project will include constructing a new inlet meter installation and pressure reducing valve station, and upgrading telemetry equipment at the site. Enhanced telemetry will record rate and volume of water that is supplied from the station, will provide pressure information both of the CESSL side and 300 zone; and will provide power to the vault for the meter, flood alarm, and intrusion. Because the existing inlet station is located on Richards Road, a very busy arterial which makes it access difficult and creates safety hazards for workers, the new station will be located on the eastern side of Richards Road, along a grassy area just east of the existing sidewalk, and the existing station will be abandoned. This project was initiated in W-69 (Minor Water CIP), however alternatives analysis resulted in the recommendation to replace the entire station rather than just internal components. The increase in scope and cost warranted the creation of a separate CIP project.

**Rationale**

In the short term, this project reduces the likelihood of catastrophic system failures, unplanned service interruptions, damage claims to the city, and sharp rate increases to react to system failures rather than proactively managing the system. In the long term, timely replacement or repair of water system assets keeps customer rates as low as practical by managing the system at the least life-cycle cost while maintaining target service levels and meeting regulatory requirements.

**Environmental Impacts**

Replacing aging water infrastructure ensures a reliable supply of safe drinking water in sufficient quantity for homes and Businesses. Minimizing water system failures means reduced environmental damage such as flooding and erosion, which can damage lakes, streams, and wetlands. Timely replacement of aging water pipes and appurtenances reduces the volume of treated, potable water lost to leakage into the ground or following system breaks.

**Operating Budget Impacts**

Estimated Annual M&O Costs: 0

**Project Map****Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	2017	500,000

