

Ship Canal Water Quality Project

Project Overview

*Keith Ward, PMP, PE,
Ship Canal Water Quality Project Executive*
December 5, 2018

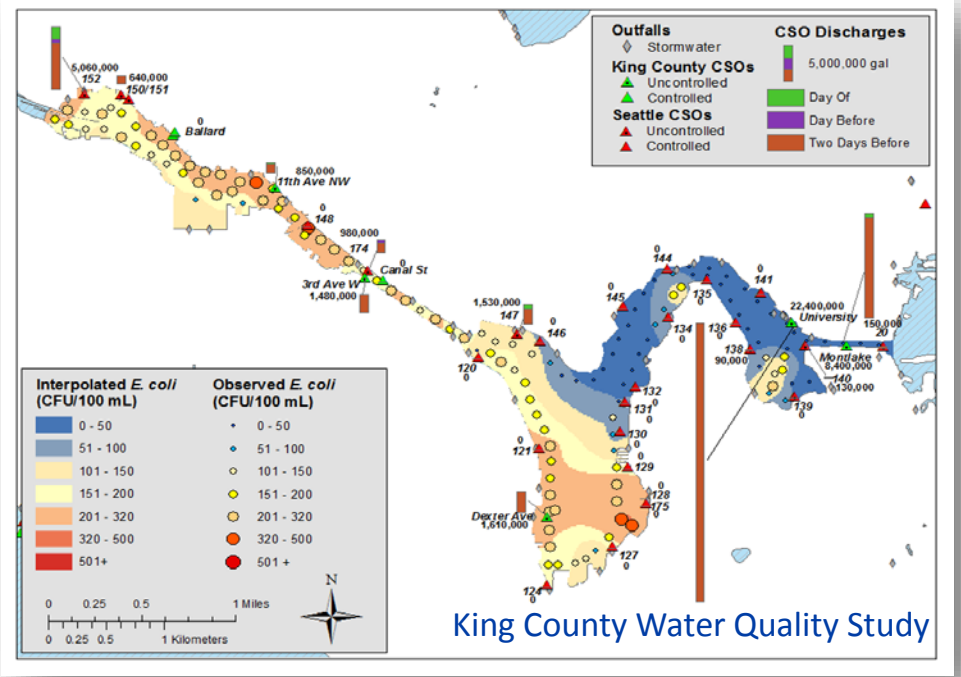
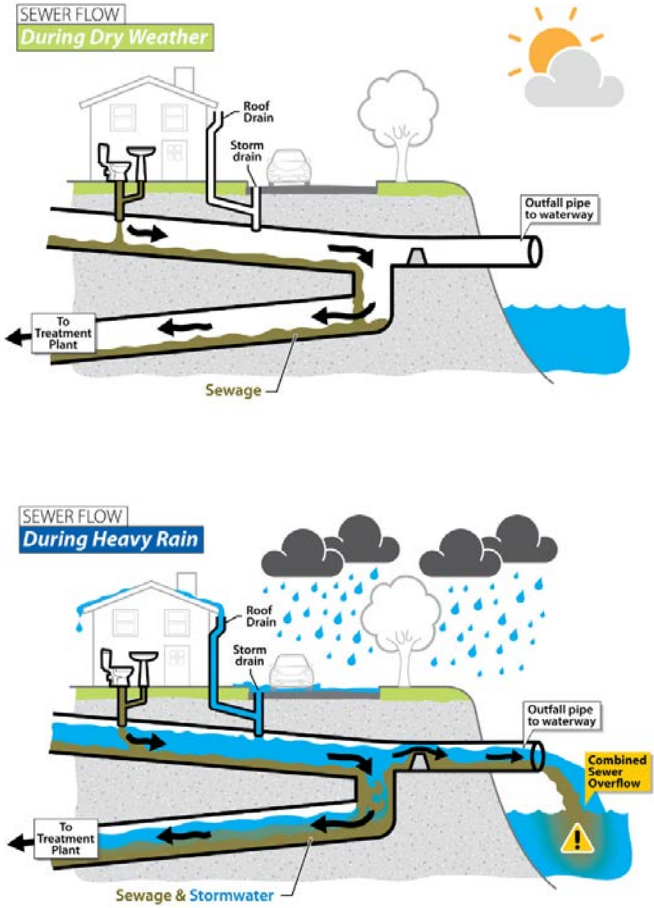


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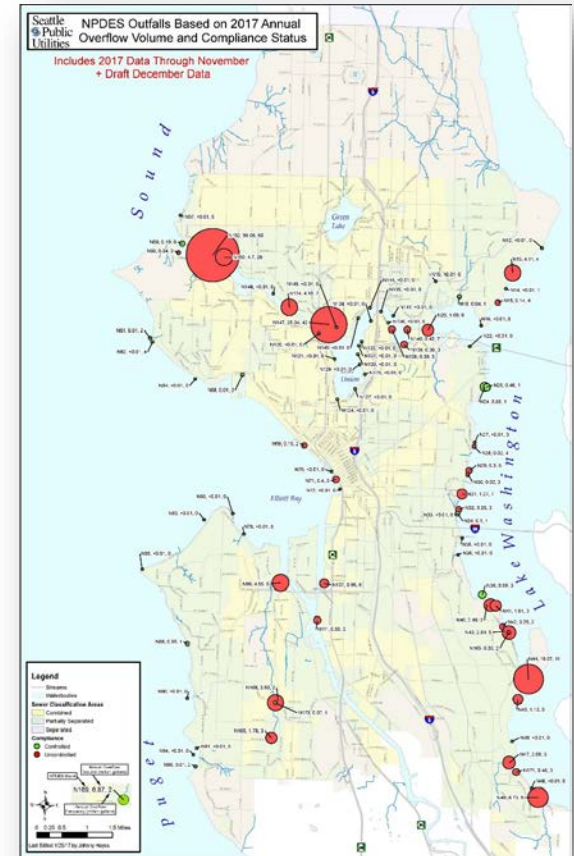
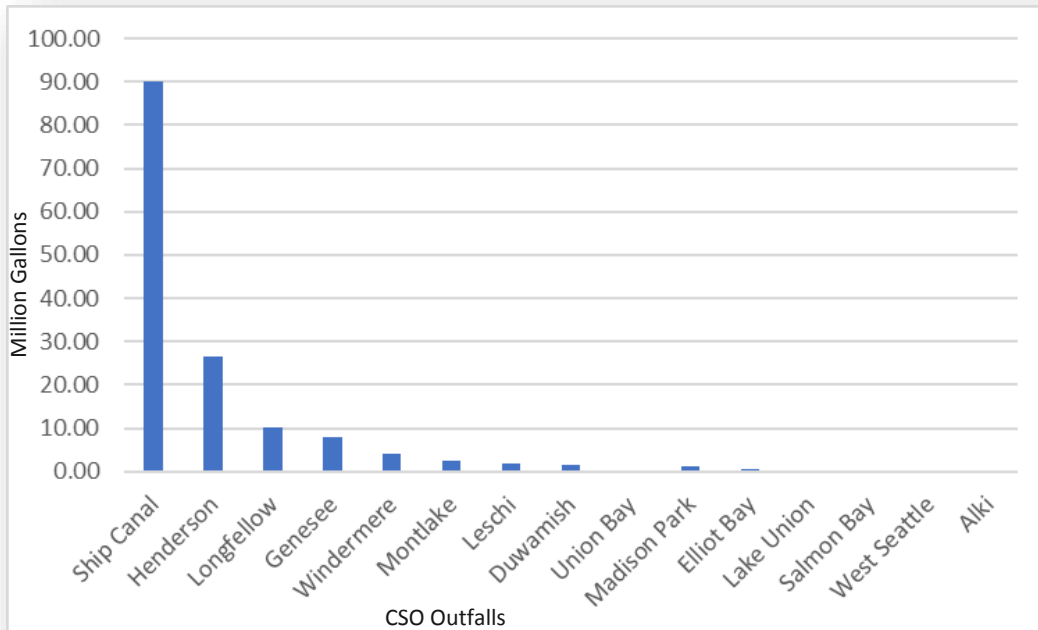
- Project background and overview
- Project work in Ballard
- Schedule summary
- Cost summary



Combined Sewer Overflows



2017 Combined Sewer Overflows



Ship Canal Water Quality Project

Consent decree

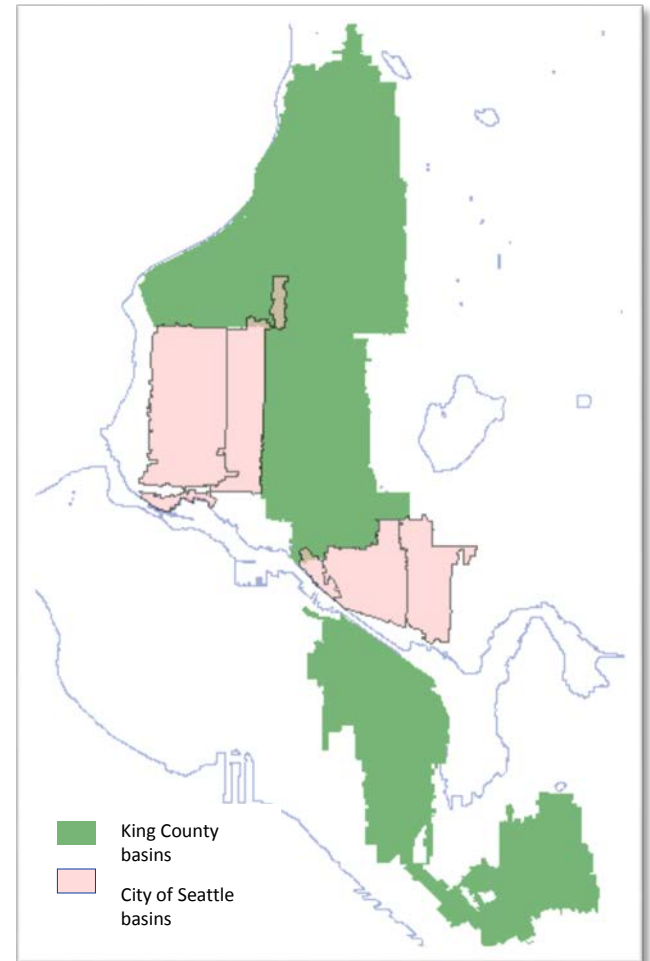
- With US Department of Justice, US Environmental Protection Agency, and WA Department of Ecology
- Less than 1 combined sewer overflow per outfall per year on a 20-year moving average

Joint Project

- Outfalls: 2 King County, 5 Seattle
- Four projects reduced to one
- Reduced community impacts
- Improved operational flexibility

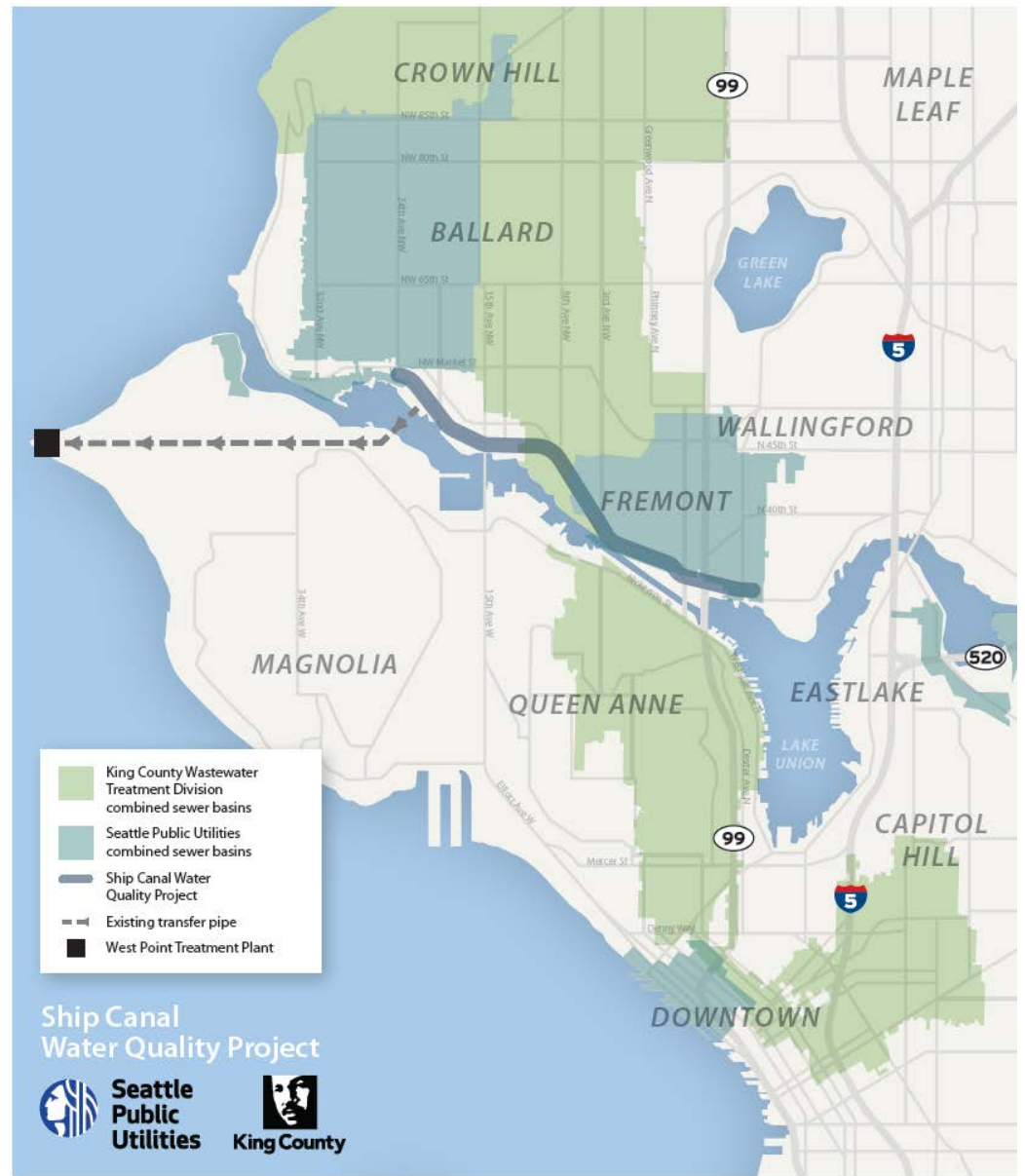
Joint Project Agreement

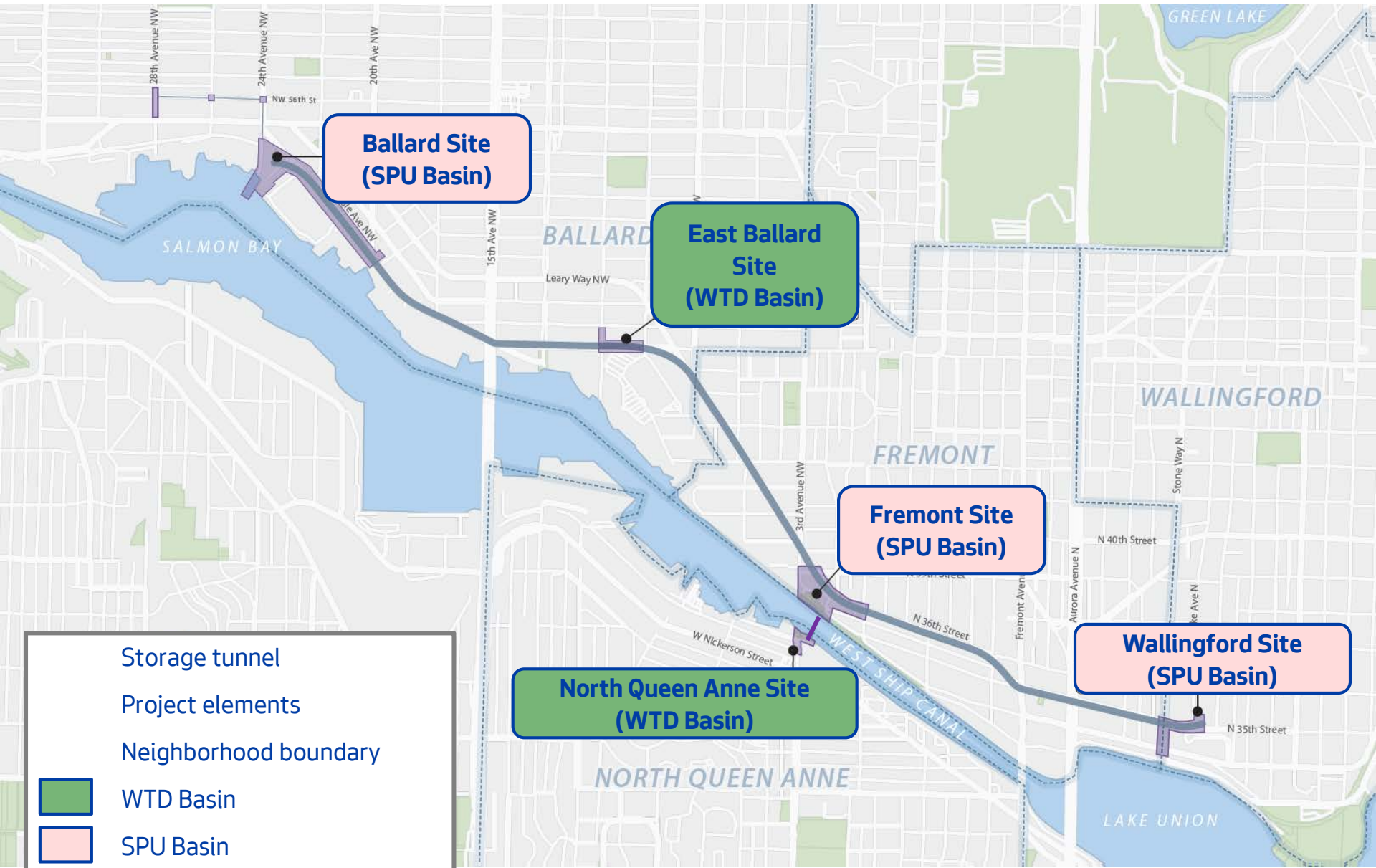
- 12/8/2015: City of Seattle – 65% of shared costs
- 6/21/2016: King County – 35% of shared costs



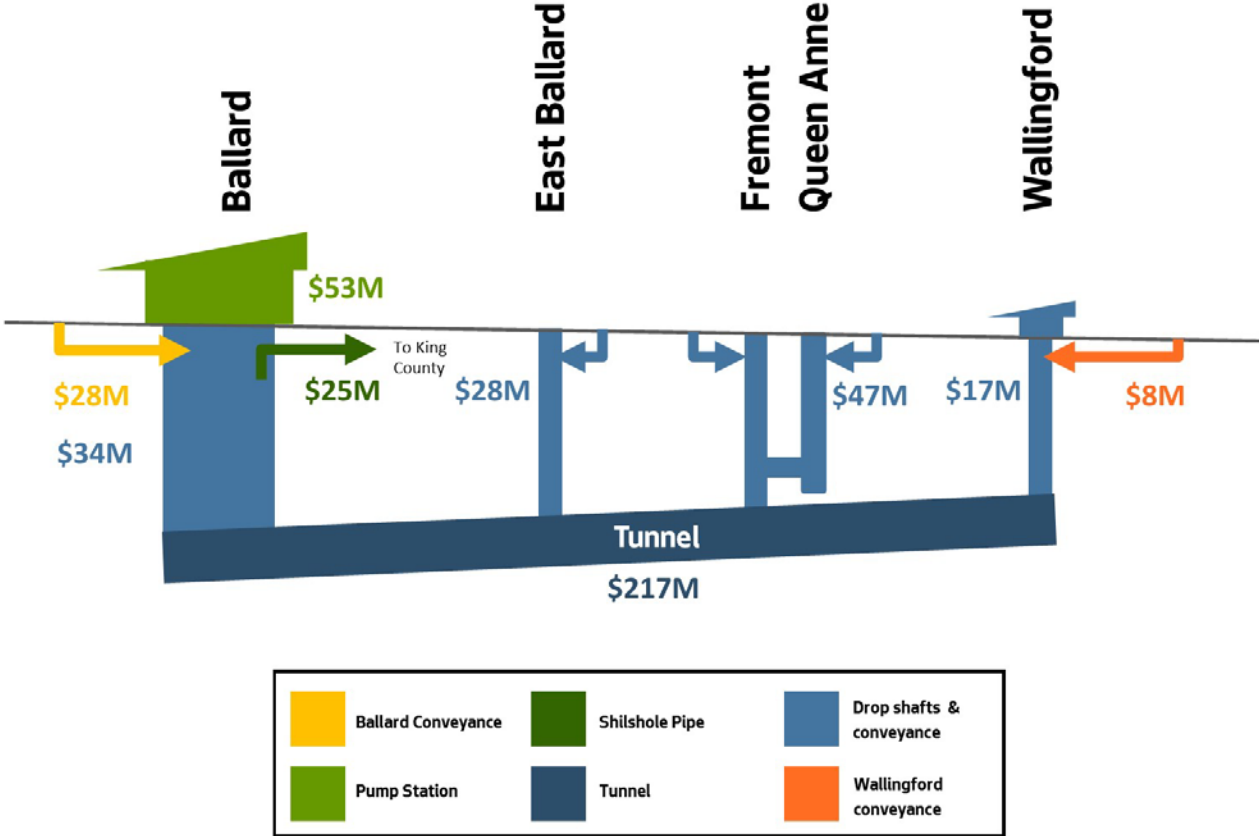
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The storage tunnel connects to King County's West Point Treatment Plant.





Project Components



Construction Techniques



18 ft. 10 in. dia. Storage Tunnel



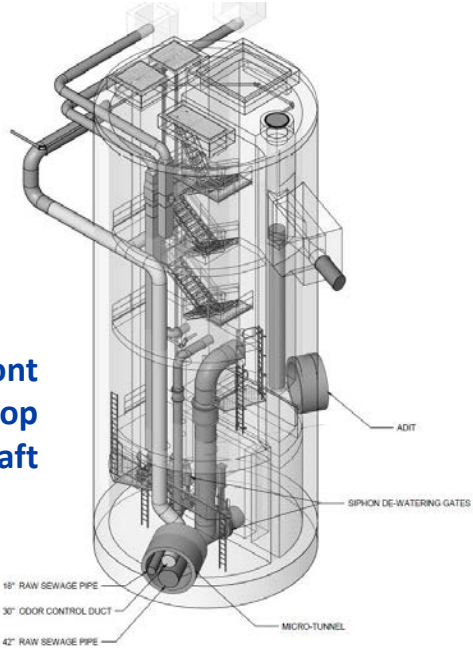
4 to 7 ft. dia. Trenchless



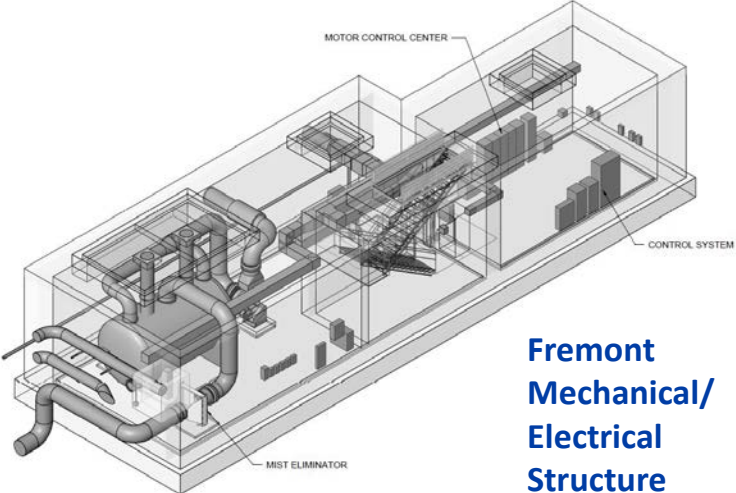
Conveyance Pipes

Project Components - examples

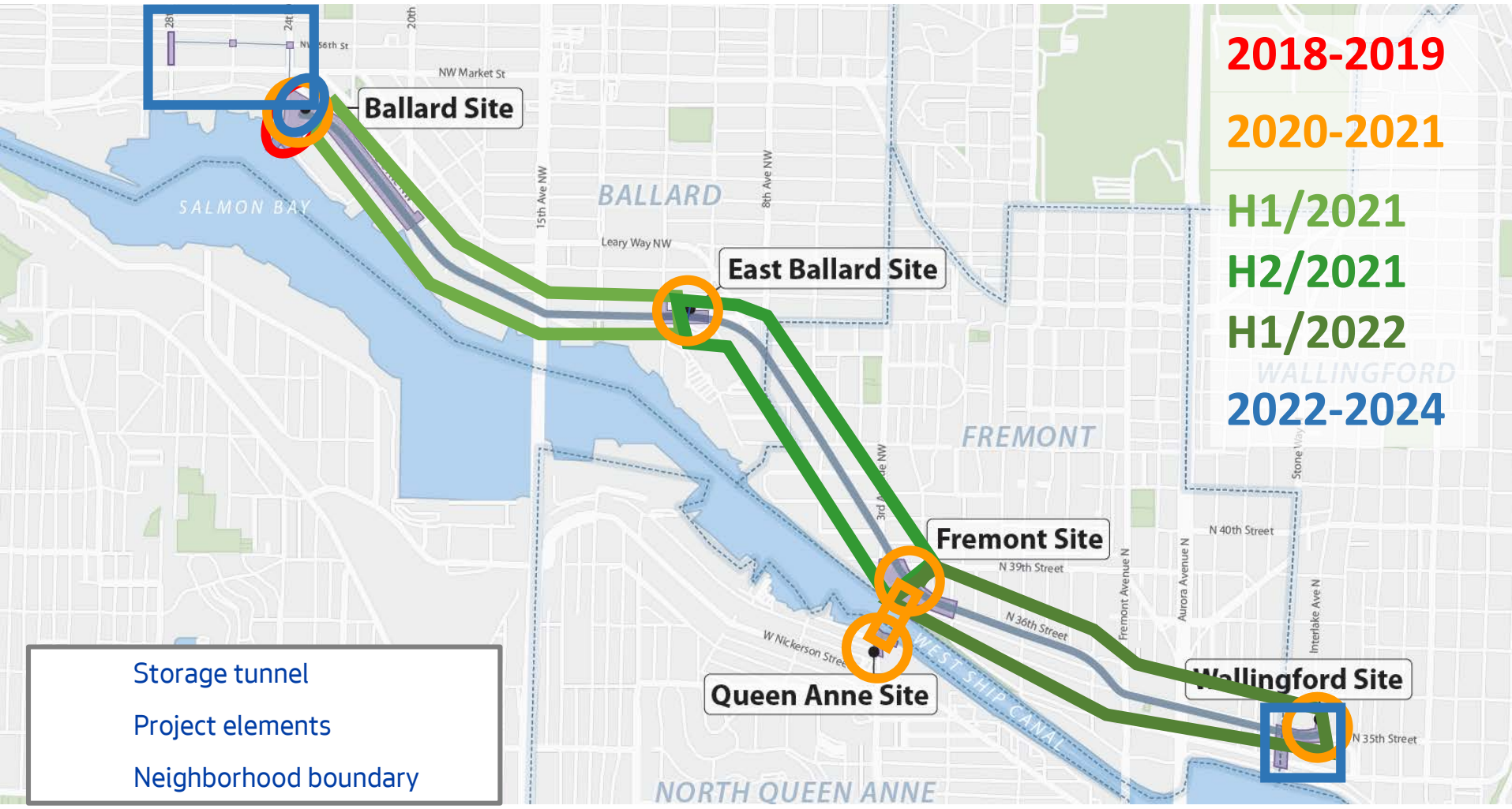
Fremont Drop Shaft



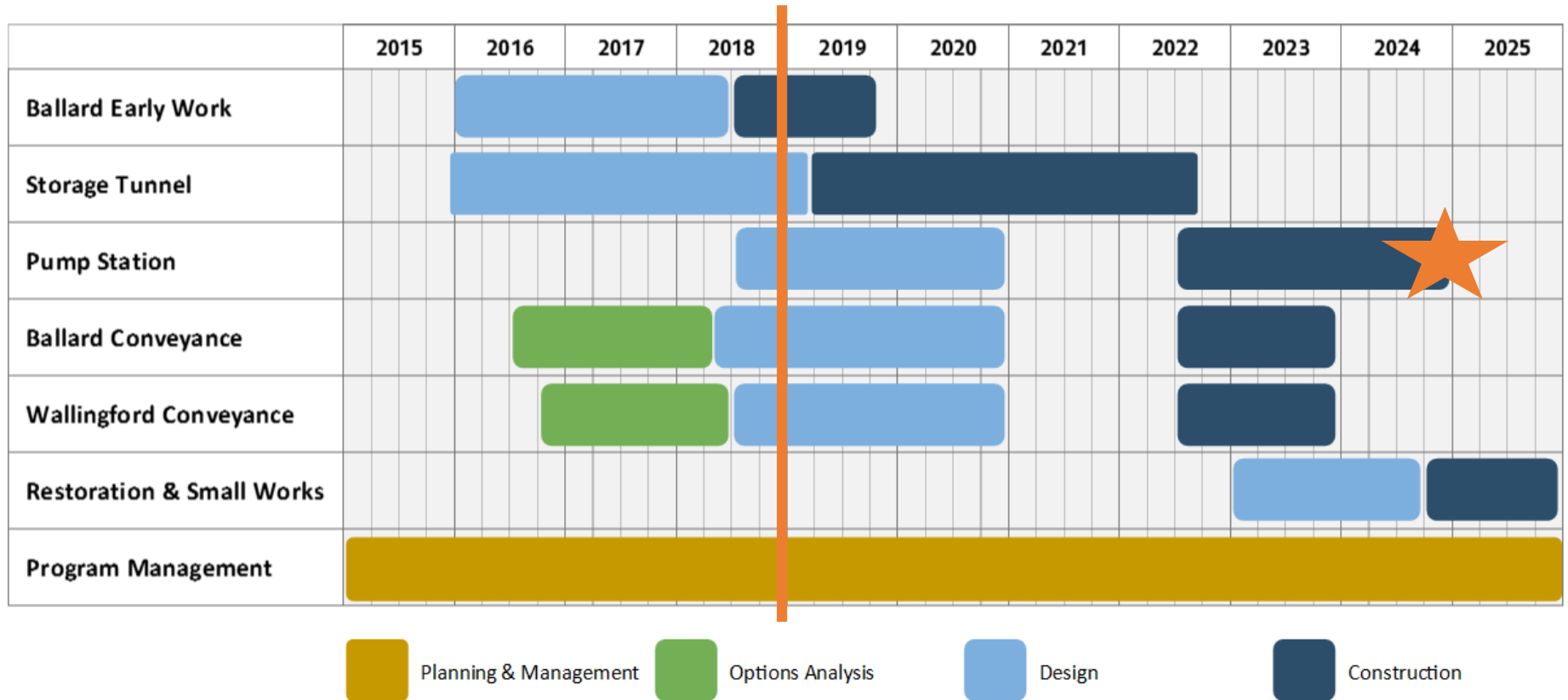
Fremont Mechanical/ Electrical Structure



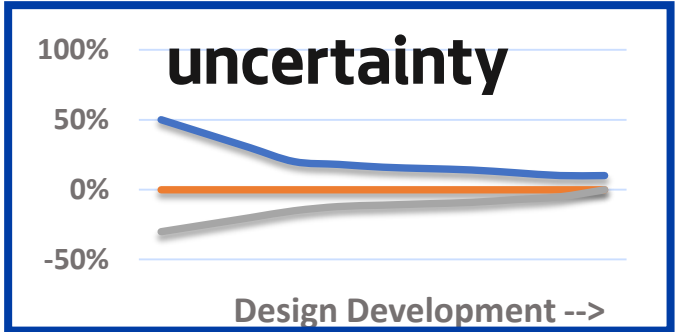
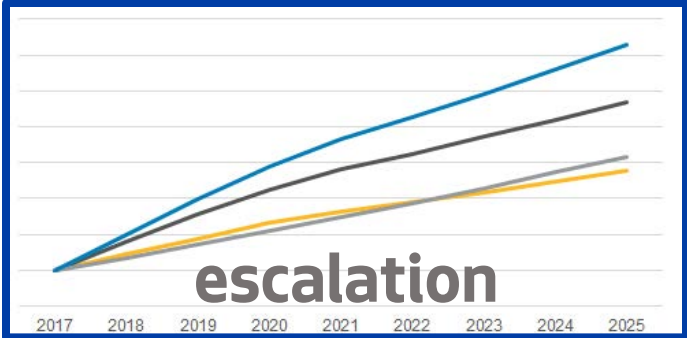
Neighborhoods



Schedule Summary



Cost Estimate - Key Factors



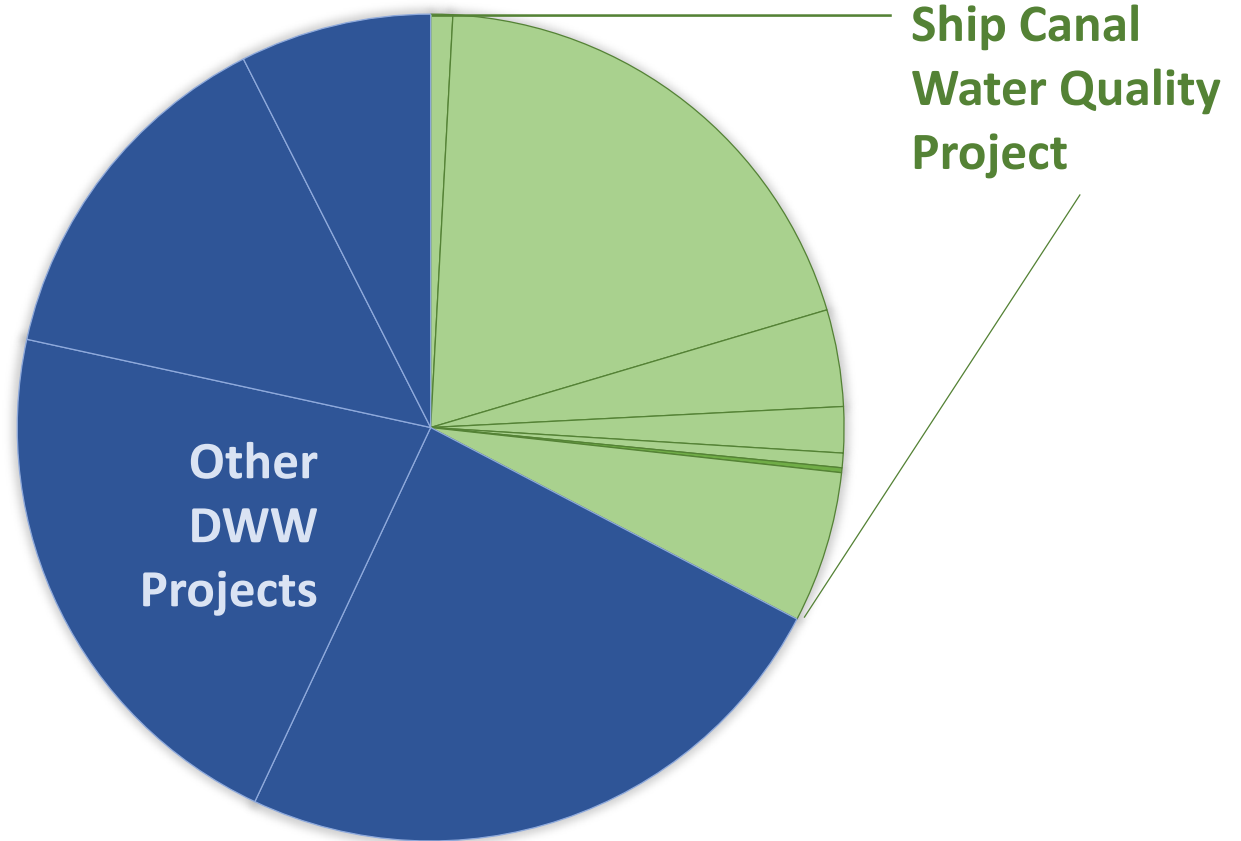
Shared Project Budget

City of Seattle's Share	~ \$388M
King County's Share	~ \$182M
Shared project budget	\$570M, 70% confidence*
Cost range	\$533M to \$598M

* There is a 70% chance costs will be at or below the estimated cost and a 30% chance the estimated cost will be exceeded.



2018-2024 DWW Spending



Project Funding

SPU is managing the project's budget within the 2018-2023 Endorsed Strategic Business Plan (SBP) rate path.

- \$540M cost estimate used for SBP
- Bond Issue interest savings
- Loans





**Seattle
Public
Utilities**



King County

Ship Canal Water Quality Project

