

Investing in the Health of the Sound and the Future of our Region

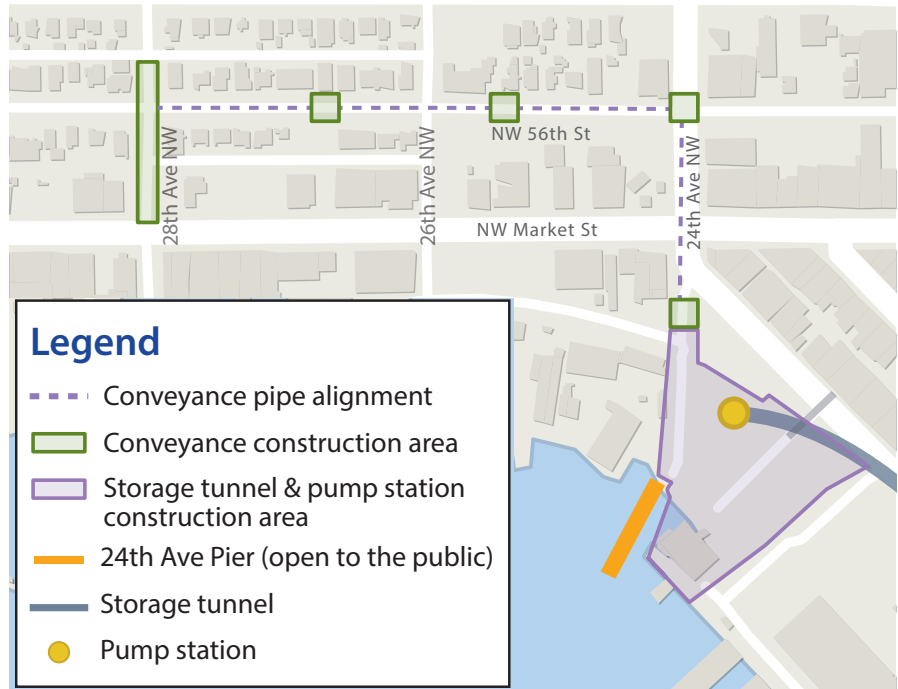
Project Background

Seattle Public Utilities and King County Wastewater Treatment Division are building an underground storage tunnel to significantly reduce the amount of polluted stormwater and sewage that flows into the Lake Washington Ship Canal, Salmon Bay, and Lake Union from our sewer system during storms.

The tunnel is 2.7-miles long, running from Ballard to Wallingford, and 18-ft, 10-in wide. It will temporarily hold more than 29 million gallons of sewage and stormwater during heavy rains. When the storm passes, the stored sewage and stormwater will be sent to King County's West Point Wastewater Treatment Plant.

What to Expect During Construction

- Parking restrictions along the east side of 24th Ave NW, NW 56th St, and 28th Ave NW so construction trucks can exit the work site
- Trucks and large equipment moving in and out of the work zone
- Noise typical of a large construction site
- Access to all buildings and businesses will be maintained



Ballard Site Overview

Ballard will be home to the western end of the tunnel and above-ground facilities, including a pump station. Tunnel boring started at this location and moved toward Fremont and Wallingford.

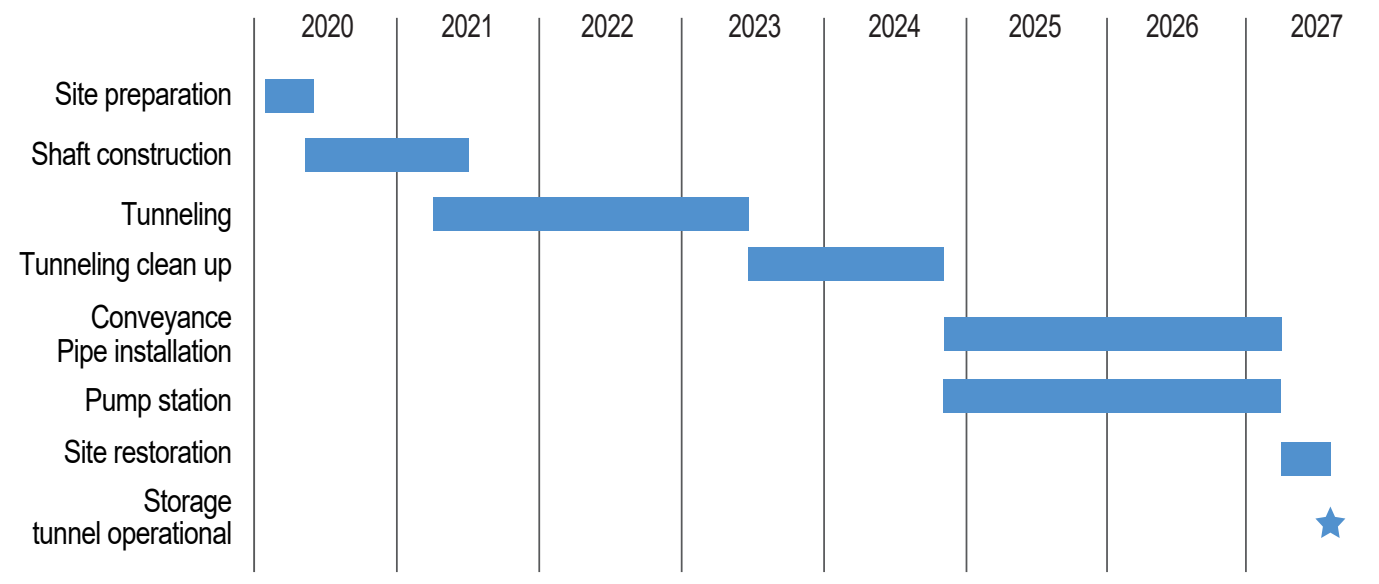
The site is near 24th Ave NW and Shilshole Ave NW. Work began in 2018. Site elements include:

- New 24th Ave Pier that contains art inlays by artist Christian French (complete and open to the public)
- Drop shaft to carry sewage and stormwater into the new storage tunnel (complete)
- Pedestrian and street improvements on 24th Ave NW
- Street end improvements
- New pipes along NW 56th St, 28th Ave NW and 24th Ave NW
- Ballard Pump Station site with small buildings, fencing, 100-ft-deep by 90-ft-wide drop shaft, and 70-foot tall pump station tower
- Fencing around the pump station area



The reconstruction of the 24th Ave Pier was completed in 2019. The pier is open to the public.

Ballard schedule



Updated March 2024

The following photos have a mix of examples from the Ship Canal project and other SPU projects.

1



Site Preparation

In spring 2020, crews prepared the work area and set up fences for the safety of crews and people nearby.

2



Screen Wall Construction

Crews installed a 12-ft screen wall and fencing at the project site.

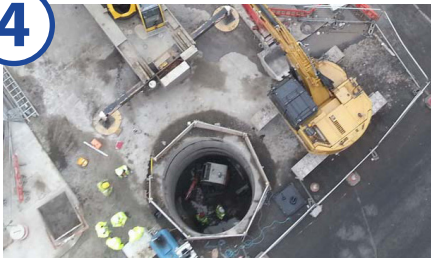
3



Slurry Wall Construction

Crews built an 87-ft diameter, 210-ft deep slurry wall to reinforce the circular access shaft.

4



Excavation & Shaft Construction

Crews dug and worked beneath the surface to build underground structures that will be used to access the storage tunnel for operations and maintenance.

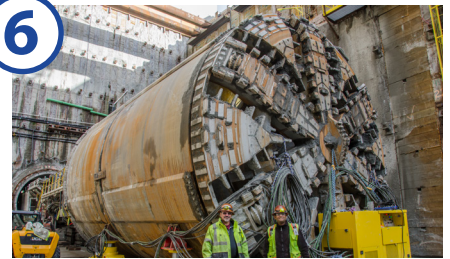
5



Tunneling Machine Assembly

Crews lowered pieces of MudHoney, our tunnel boring machine, into the underground work area and put it together.

6



Tunneling

MudHoney began its journey toward Wallingford in summer 2021 and arrived in mid-2023.

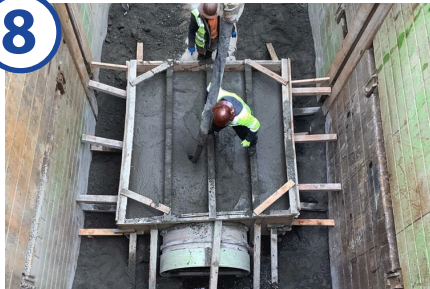
7



Tunnel Cleaning, Patching and Demobilizing

Following the completion of tunneling, crews are cleaning the tunnel, patching seams and holes (like you would after putting up drywall), and removing equipment from the tunnel.

8



Build Conveyance and Pump Station

In 2024, crews will begin construction on conveyance pipes that will bring flows to the tunnel, and a pump station that will move flows from the tunnel to the West Point Treatment Station.

9



Site Restoration

Once construction is complete, all impacted areas will be restored to previous conditions. This will include the landscape restoration, repaving streets and sidewalks.

In Ballard 2024 - 2026

Ballard Pump Station

The Ballard Pump Station will be a 70-ft tall illuminated tower that will house above- and below-ground mechanical and odor control equipment. It will pump the flows captured in the storage tunnel to the West Point Wastewater Treatment Plant. The site will be a fenced-off yard with SPU vehicle access and landscaping.

Our designers were inspired by Ballard's history, the underground infrastructure, and how Ballard looks today. The cylindrical shape mirrors the pump station and below-ground equipment space. The frame around the building echoes the industrial feel and scaffolding of Ballard's shipyards. Near the tower will be smaller buildings for equipment as well as parking for maintenance crews.

Jeffrey Veregge, from the Port Gamble S'Kallam Tribe, has developed public art that will be located at the pump station and celebrates the Coast Salish heritage and historical use of the area.



Rendering of the future Ballard Pump Station.

Underground Conveyance Pipes

In addition to the pump station, we will be building new pipes along NW 56th St, 28th Ave NW, and 24th Ave NW to connect Ballard's existing sewer and stormwater overflow pipes to the storage tunnel. See the Ballard Conveyance alignment on the map on the first page and check out the project website for more information.

Contact

For questions or comments about this project:

Email: SPU_ShipCanalProject@seattle.gov

Call: 206-701-0233

Website: spushipcanal.participate.online

For interpretation services please call 206-701-0233

如需要口譯服務 請撥電話號碼 206-701-0233

통역 서비스를 원하시면 206-701-0233 으로

Wixii turjubaan afka ah ku saabsan ,fadlan la soo xariir taleefoonka 206-701-0233

Para servicios de interpretación por favor llame al 206-701-0233

Para sa serbisyo ng tagapagpaliwanag tumawag sa 206-701-0233