Seattle Public Utilities

Protecting Seattle's Waterways

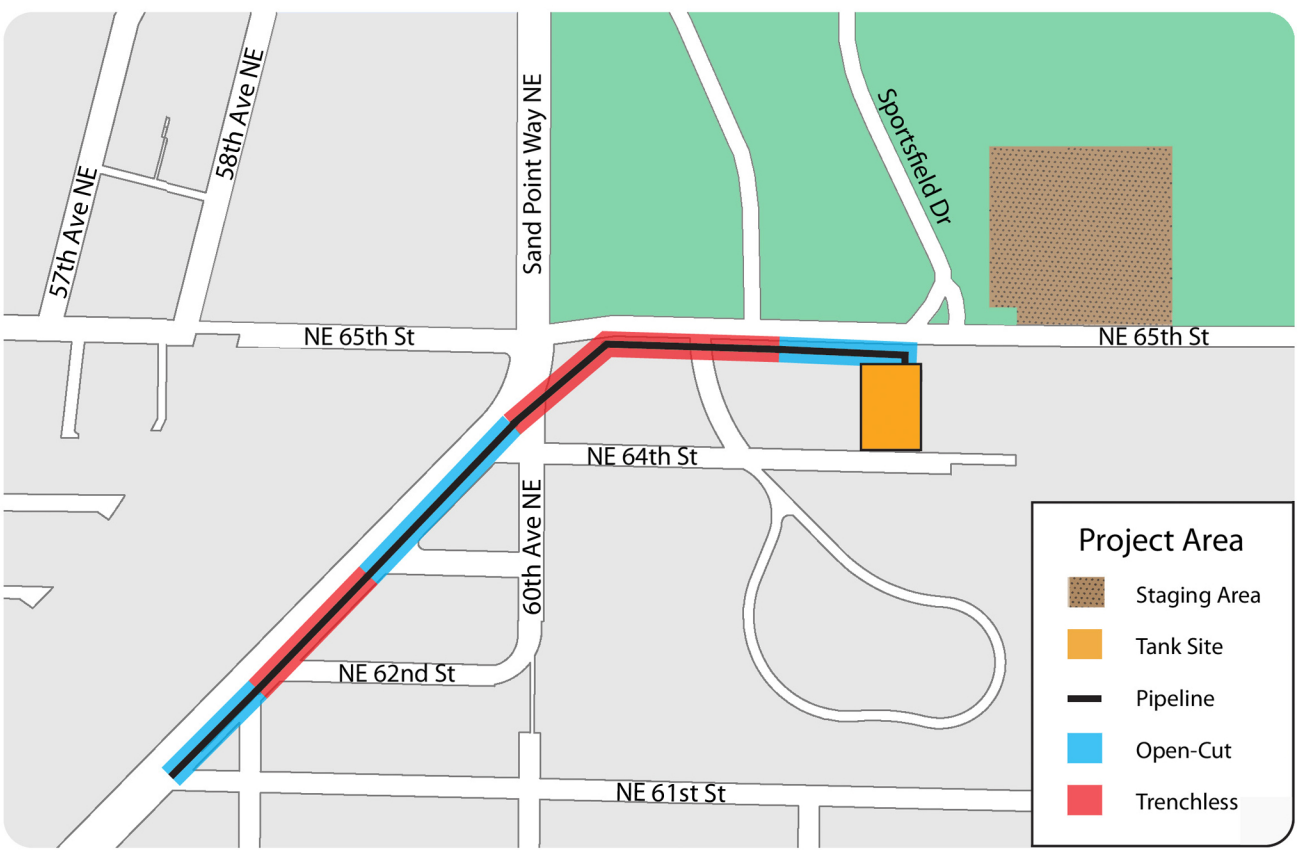
Windermere Basin

Sewer and Stormwater Pollution Prevention Project

This project will improve existing sewer systems in the Windermere Basin to reduce the frequency and volume of sewer overflows into Lake Washington during periods of heavy rainfall. Improvements will include a 2.05 million gallon underground storage tank near Magnuson Park and over 2,000 feet of new sewer main along NE 65th Street and Sand Point Way NE.

Seattle Public Utilities (SPU) expects onsite activities will last two years, beginning in September 2012. The level of onsite activity will vary by season and phase of construction. SPU will work continuously to minimize temporary impacts in the community during construction. This flyer discusses the benefits and timeframe of the project, as well as what potential temporary impacts residents, businesses, and commuters may experience.

Below is an area map of where construction will occur. The staging area, tank site, and pipeline alignment are all displayed here. Note, sections of the pipeline are color-coded according to installation method, namely *open-cut* or *trenchless*.



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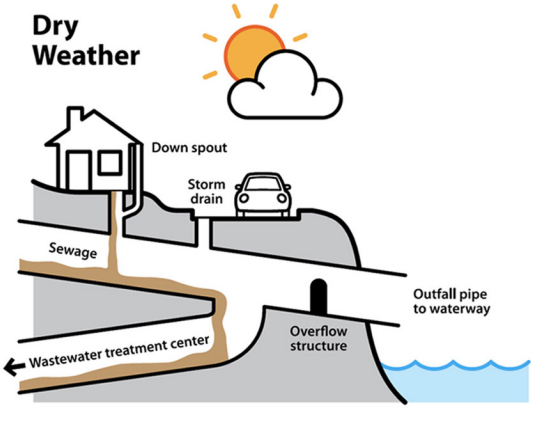
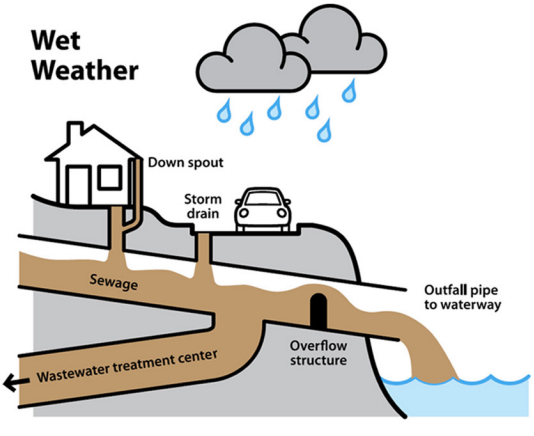
Sewer and Stormwater Pollution

During normal weather conditions in Seattle, existing barriers in the sewer system in the Windermere Basin successfully prevent combinations of wastewater and stormwater from overflowing into nearby Lake Washington. However, during episodes of heavy rainfall, these mixtures overcome the sewer barriers and flow into the lake.





Benefits of the Project

SPU will upgrade the local sewer systems to divert wastewater and stormwater into a new holding tank for temporary storage during heavy downpours. Once the rainfall subsides, the storage tank will empty the contents back into the existing sewer system for regular processing. This improvement will reduce unnecessary sewage and stormwater pollution in Lake Washington.

Onsite Activities

Mobilization. Before construction begins, crews will mobilize materials and equipment, and prepare a staging area and the initial work site near the proposed tank location.

Shoring and Excavation. Crews will shore the sides of the work area and excavate a large hole for the storage tank. Construction vehicles will enter and exit the site regularly during this phase.

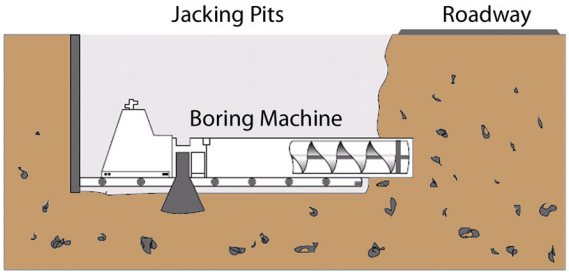
Construction. During construction, crews will build a tank to store combined sewage and stormwater during heavy rainfall, and install new pipelines in the City right-of-way. Pipeline construction methods will consist of *open-cut*, in which crews will dig trenches, and *trenchless*, which will mostly occur underground and not be visible from street level.

Restoration. Once crews install the tank and pipelines, they will restore the sections of street and other ground surfaces affected by construction. The restored areas will be improved to increase pedestrian and traffic safety.

Trenchless Construction 101

During construction, SPU will use a combination of open-cut and trenchless methods to install the new pipeline that will lead to the new storage tank.

Unlike open-cut, *trenchless* construction reduces temporary impacts on the community because much of the work happens below ground in jacking pits (see adjacent illustration). Workers, machines, and equipment will all enter and exit the tunnels at the jacking pits installed during construction. The size of the jacking pits will vary up to 15 x 30 feet. Fences will surround these areas to maintain a safe work zone.



Temporary Construction Impacts

During active construction, community members may experience temporary impacts, including:

- **Noise, dust, and vibration**
- **Increased truck and oversized vehicle traffic**
- **Reduced street parking**
- **Blocked driveways during work hours**

Your Safety is Our Concern

To help SPU maintain safety and the flow of traffic, please:

- **Allow emergency vehicles to access all local properties**
- **Drive slowly through construction areas**
- **Keep all persons a safe distance from work areas and equipment**
- **Observe onsite flaggers**
- **Follow street closure and road detour signs**

Timeframe

Onsite project activities will last approximately two years, beginning in September 2012. Level of onsite activity and potential temporary impacts in the community will vary by season and construction phase; the overall construction schedule is subject to change. Below is a visual sequence of when project activities begin.

Mobilization	Shoring & Excavation	Construction	Restoration	Completion
Third Quarter 2012 Staging Area Tank Site	***Fourth Quarter 2012*** Tank Site	***Fourth Quarter 2012*** Sand Point Way NE Tank Site ***First Quarter 2013*** NE 65th Street	***Third Quarter 2013*** Sand Point Way NE ***Fourth Quarter 2013*** NE 65th Street ***Second Quarter 2014*** Tank Site	***Third Quarter 2014*** All Areas

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Stay Informed!

Questions or Concerns?

Contact the Windermere Project Team

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Want to Learn More?

Go to ***www.seattle.gov/util/***

Search ***Windermere***

Email us at ***SPU_WCSO@seattle.gov***
to join our mailing list to receive regular updates!

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