

Bellevue – Enatai - January 25, 2017 Mercer Island - January 26, 2017 Community meeting





Agenda

- 6 6:30 p.m.
- 6:30 –7:10 p.m.
- 7:10 7:30 p.m.
- 7:30 8 p.m.
- 8 p.m.

Check-in and open house Presentation Q & A Open house Adjourn



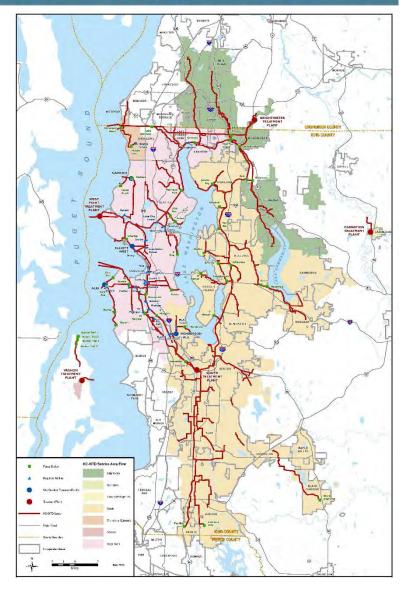
Presentation agenda

- Welcome and introductions
- Project overview
- Final alignment
- Construction methods
- Pump station upgrades
- Next steps



What does the Wastewater Treatment Division do?

- Serves 17 cities and 17 sewer districts
- Operates 5 treatment plants and 42 pump stations
- Manages 350+ miles of pipe





In the last 50 years, treating the area's wastewater has transformed Lake Washington into one of the cleanest urban lakes in the world.

- The North Mercer / Enatai Interceptor was built in the 1970s.
- Pipeline upgrades will provide safe, reliable service to north Mercer Island and southwest Bellevue for the next 50+ years.





Service area and existing system





Department of Natural Resources and Parks Wastewater Treatment Division

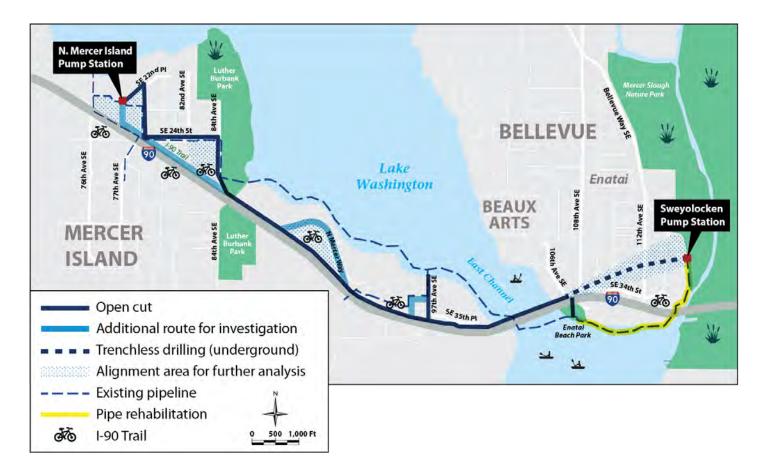
NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

Schedule





What alternatives did we consider?





Community outreach to date



- 4 open houses
- 14 community briefings
- 20 field work notices
- 4 community events
- Hundreds of conversations with project area neighbors and interested stakeholders



What we've heard

- Use the I-90 trail as much as possible
- Reduce North Mercer Way traffic impacts
- As much as possible, avoid impacts to events such as Rotary Half Marathon and Seafair
- Reduce impacts to Enatai Beach and Luther Burbank Park
- Maintain boating access and stay out of the water as much as possible
- Coordinate with Sound Transit, WSDOT, and cities of Mercer Island and Bellevue



Where we're at now



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Considerations for pipeline route

- Technical
- Constructability
- Operation and maintenance
- Permitting
- Environmental
- Community



- Wide gravel shoulder on 78th Avenue SE
- 84th Ave SE: too many utilities
- Luther Burbank Park
- Follows N Mercer Way (~500 ft)





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Example 2 County Department of Natural Resources and Parks Wastewater Treatment Division

NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

Section 1

- Wide gravel shoulder on 78th Avenue SE
- 84th Ave SE: too many utilities
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Mercer Island, Washington Street View - Aug 2011



Example 2 Sector 2 Se

NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

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King County Department of Natural Resources and Parks Wastewater Treatment Division

NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

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- 90th PL SE keeps wastewater flows moving efficiently
- Lift Station 11 improvements needed





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Section 3

 The only feasible option to cross the East Channel requires inwater work





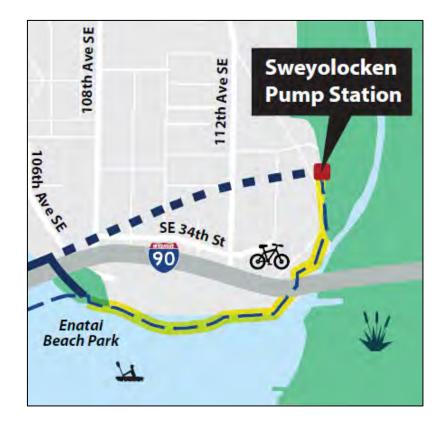
Section 3

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- A new pipe (HDD) will run under the Enatai hillside
- Existing line will be rehabilitated
- Enatai Beach Park connects existing and new line





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Construction methods

- Open-cut
- In-water
- Trenchless (Horizontal Directional Drilling)
- Pipe rehabilitation



Construction methods: Open-cut

- Used to install the majority of the new pipe
- Safer for shallower work zones
- Traffic impacts include lane closures and detours (rolling work zone)
- Access to residences and businesses will be maintained







Construction methods: *In-water*

- East Channel crossing requires in-water work
- Cities and community members asked the team to avoid major boating times such as Seafair
- Most in-water work will take place from barges





Construction methods: Trenchless

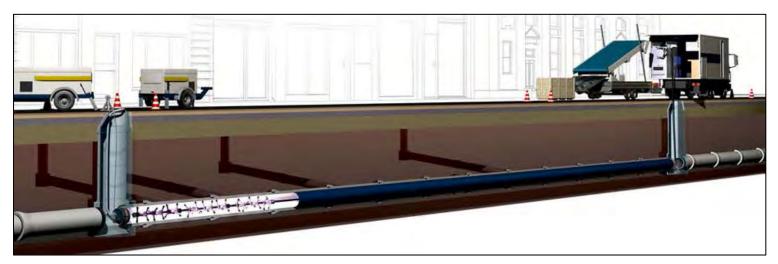
- Crews will use HDD (horizontal directional drilling) to install the pipeline under the Enatai hillside
- Drilling equipment on either end of the pipe will be used for underground installation without the need for open trenches
- Will be used in areas where the pipe is too far underground to be installed from the surface





Construction methods: *Pipe rehabilitation*

- A section of the existing North Mercer Island/Enatai Sewer pipeline must be rehabilitated and remain in service to receive flows from 25 homes and two City of Bellevue sewer lines
- Some of this work will be conducted from the water





Pump station improvements: North Mercer Island Pump Station

- Existing station built in 1970
- Upgrades needed to increase reliability
- Equipment will be reused when possible
- An additional building will be added to house a generator and electrical equipment



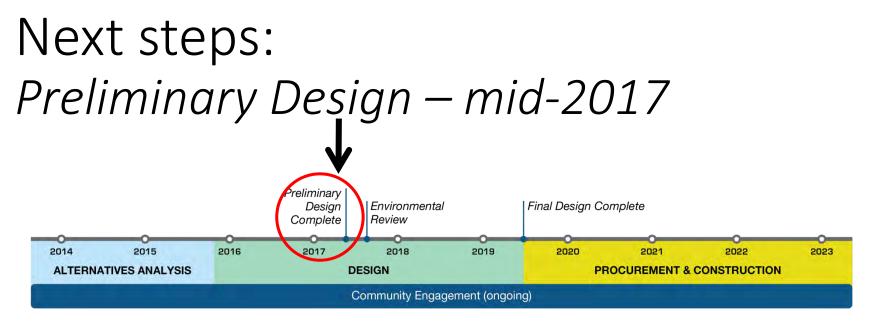


Pump station improvements: *Lift Station 11*

 Upgrades are also being planned at Lift Station 11, a City of Mercer Island facility used to direct flows from City pipes to the County's regional wastewater system



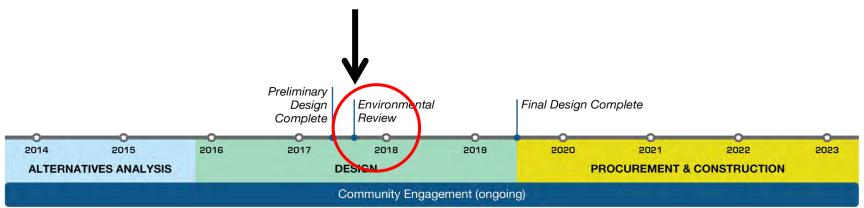




- Initial design drawings
- Confirm property easement needs
- Refine construction methods
- Begin identifying construction sequencing (when we will build what)



Next steps: Environmental Review – fall 2017



- Identify environmental impacts
- Conduct environmental review under State Environmental Policy Act (SEPA)
- Opportunity for public input



Our commitment to you

- Outreach and coordination with individual property owners
- Community group briefings
- Street walk and talks
- Gather community input where we can





Questions and comments

For more information:

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- 206-477-5415