



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

Mercer Island Community Meeting

March 10, 2016



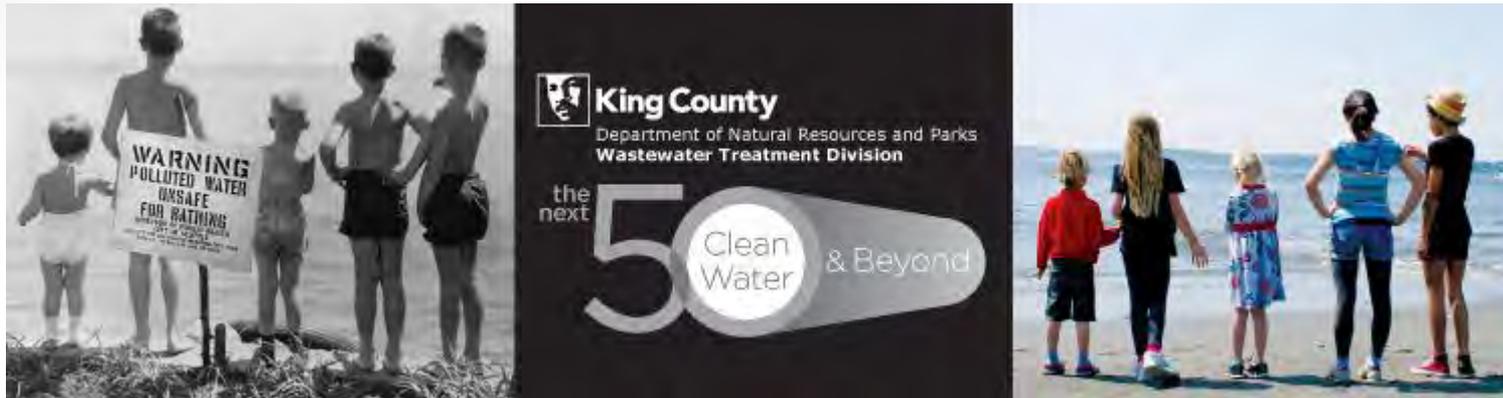
Agenda

- Project Overview
- Where we are today
- Design and construction
- Community Input
- Next steps
- Questions and discussion



Project Overview





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

- North Mercer/Enatai Interceptor was built in the 1970's
- King County will build a new sewer to continue providing safe, reliable service to 2060 and beyond.



Where we are today

North Mercer Island/Enatai Sewer Upgrade Project

Recommended Alternative



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Community Outreach to date

- Project newsletter, July 2015
- Community open house, September 2015
- Online open house September 15- November 2
- Project Web page
- Response to community questions and concerns
- Briefing for Enatai Neighborhood Association board



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North Mercer Island and Enatai Sewer Upgrade Project

System Planning **Project Planning** Project Design Project Construction Facility Operations

February 10, 2016 Project Update

Join US! King County Wastewater Treatment Division invites our Mercer Island and Enatai communities to hear an update on the North Mercer/Enatai Sewer Upgrade Project. The County's project team has identified a preferred alignment for a new sewer pipeline that will provide service to North Mercer Island and the Enatai area of Bellevue.

Community meeting dates: March 2 and 10, 6:00-8:30 p.m.
[View meeting calendar for locations](#)

We have information to share with you on what we know now about the project, upcoming field work to inform design, and project elements that are still being defined. Bring your questions and thoughts to share with us! For more information about this project, contact Monica Van der Vieren at 206-477-5502, monica.vandervieren@kingcounty.gov or via [facebook.com](https://www.kingcounty.gov).

As part of its mission to protect public health and the environment, King County Wastewater Treatment Division (WTD) conveys and treats wastewater collected by 17 cities and 17 local sewer utilities in King, Snohomish and Pierce counties, including the Cities of Mercer Island and Bellevue. Your local sewer agency collects your wastewater and sends it to King County's pipelines. Wastewater from Mercer Island and Bellevue is sent to South Treatment Plant in Renton.

Project need

Installed during the 1970's, the County's North Mercer Island and Enatai sewer pipelines are ageing and reaching capacity. Increasing sewer capacity will allow King County to provide reliable wastewater service through the year 2060.

Addressing community concerns

- Minimize construction impacts to Luther Burbank Park, the shoreline and in the waterway
- Pipeline moved from between homes
- Reduce traffic impacts where possible



Schedule Overview

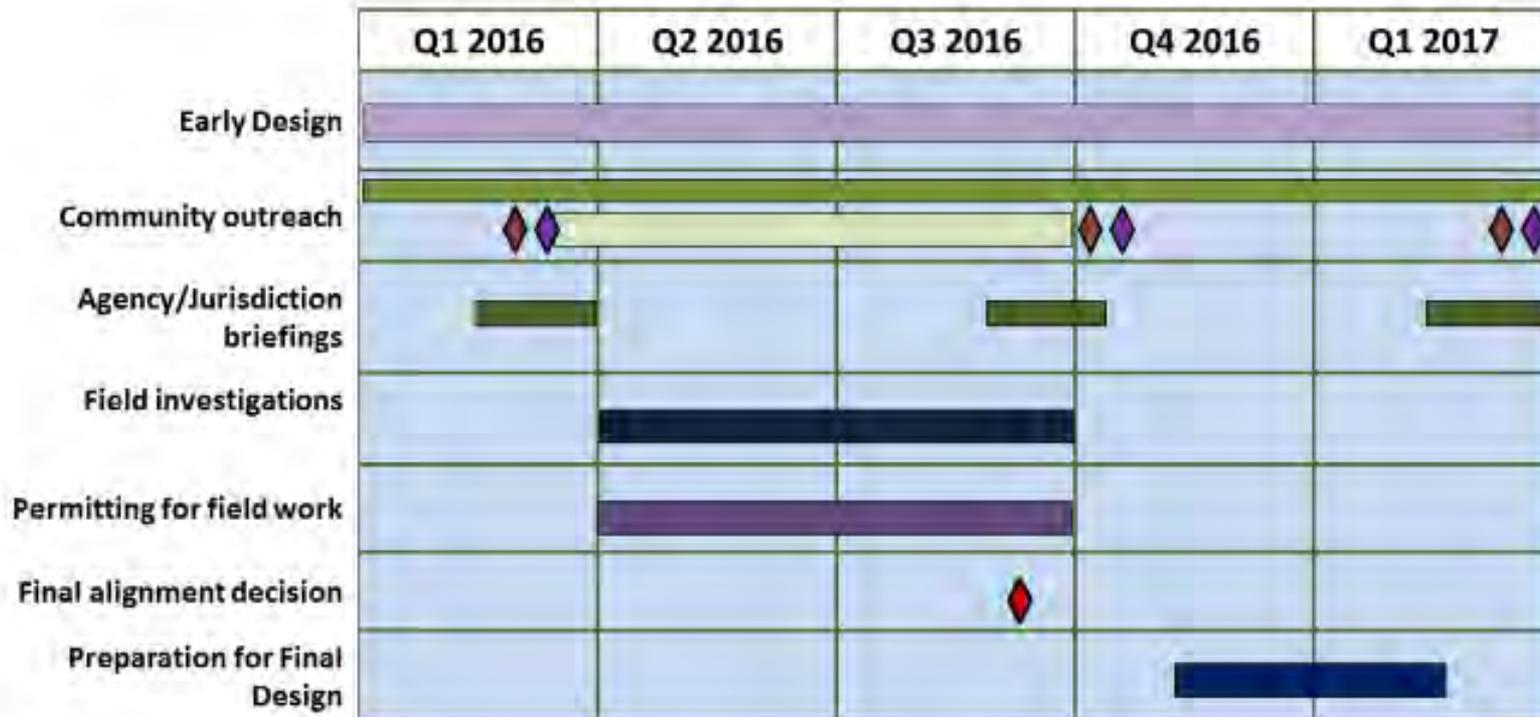
- Upcoming project phases:
 - Early design
 - Final design
 - Construction Bid
 - Construction



Schedule – Early Design

NORTH MERCER ISLAND/ENATAI SEWER UPGRADE PROJECT TIMELINE

FEBRUARY 2016



-  Newsletter/Web updates
-  Community meetings
-  Trail/park outreach

Project Coordination

- City of Mercer Island
- City of Bellevue
- Individual property owners
- Tribes
- Sound Transit
- WA Department of Transportation
- WA Department of Fish and Wildlife
- WA Department of Natural Resources
- WA Department of Ecology
- U.S. Coast Guard
- U.S. Army Corps of Engineers

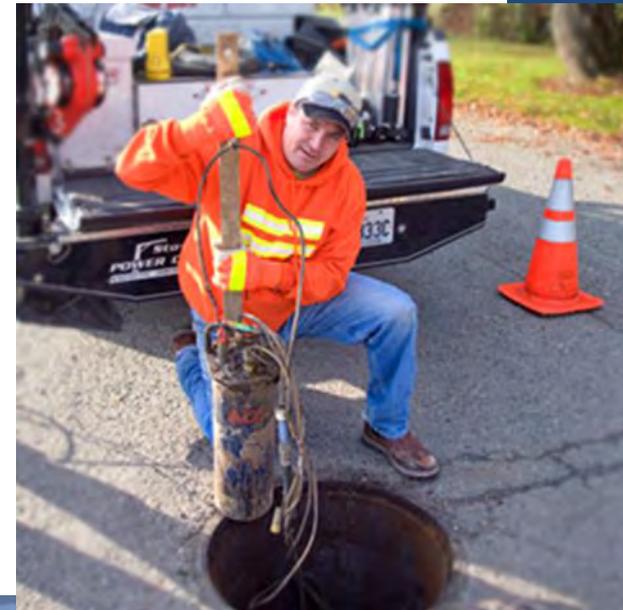


Existing System



Important Considerations

- Technical
- Constructability
- Operations and maintenance
- Environmental
- Permitting
- Property
- Community
- Cost



North Mercer Island/Enatai Sewer Upgrade Project

Recommended Alternative



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North Mercer Pump Station Upgrade



Additional project element: Mercer Island's Lift Station 11



North Mercer Island/Enatai Sewer Upgrade Project

Recommended Alternative



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NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

Design considerations for the pipeline alignment

- Hydraulics- keeping wastewater and solids moving
- Pinch points with limited work area
- Existing utilities
- Traffic impacts



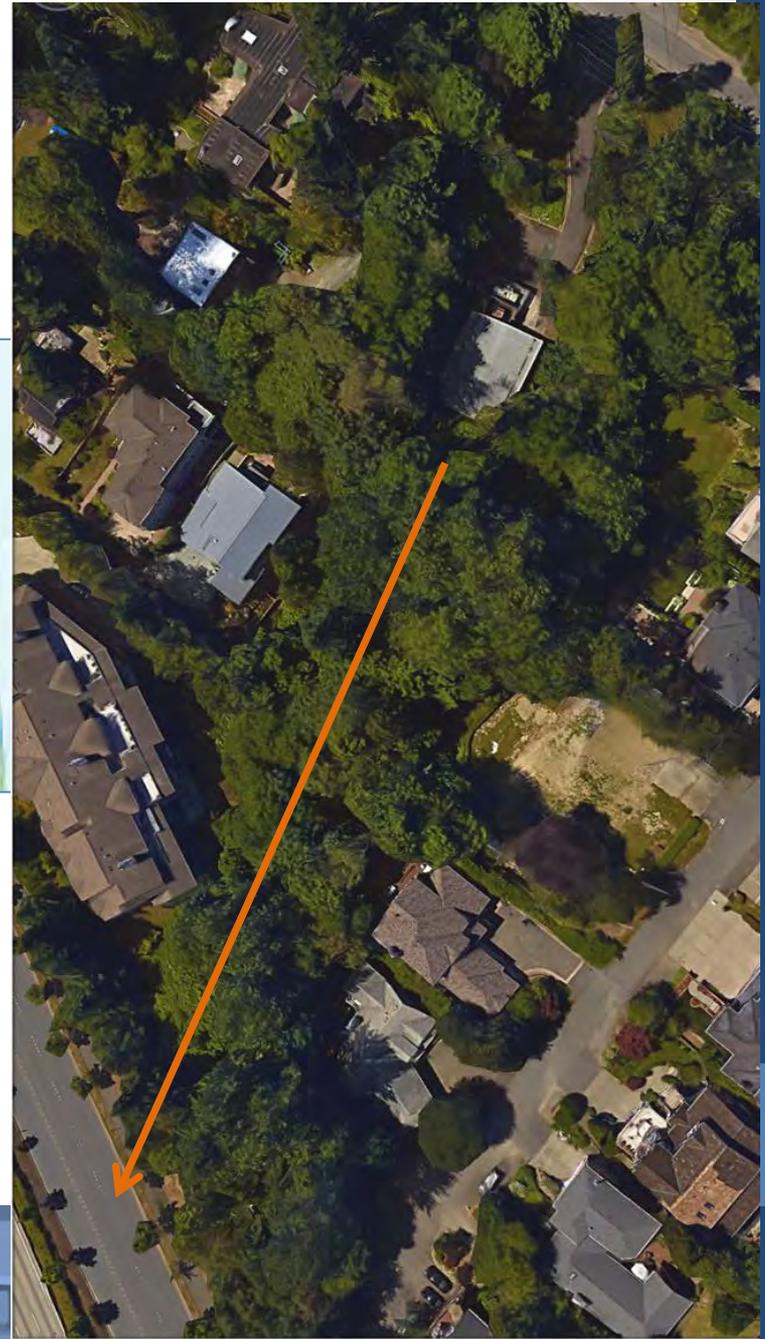


NORTH MERCER ISLAND/ENATAI Sewer Upgrade Project

Recommended pipeline alignment



Option for investigation



Pipe installation

- **Steps**

- Excavation
- Pipe Installation
- Pipe Backfill
- Surface restoration

- **Considerations**

- Utilities
- Traffic
- Retaining walls
- Proximity to homes



In-water Construction

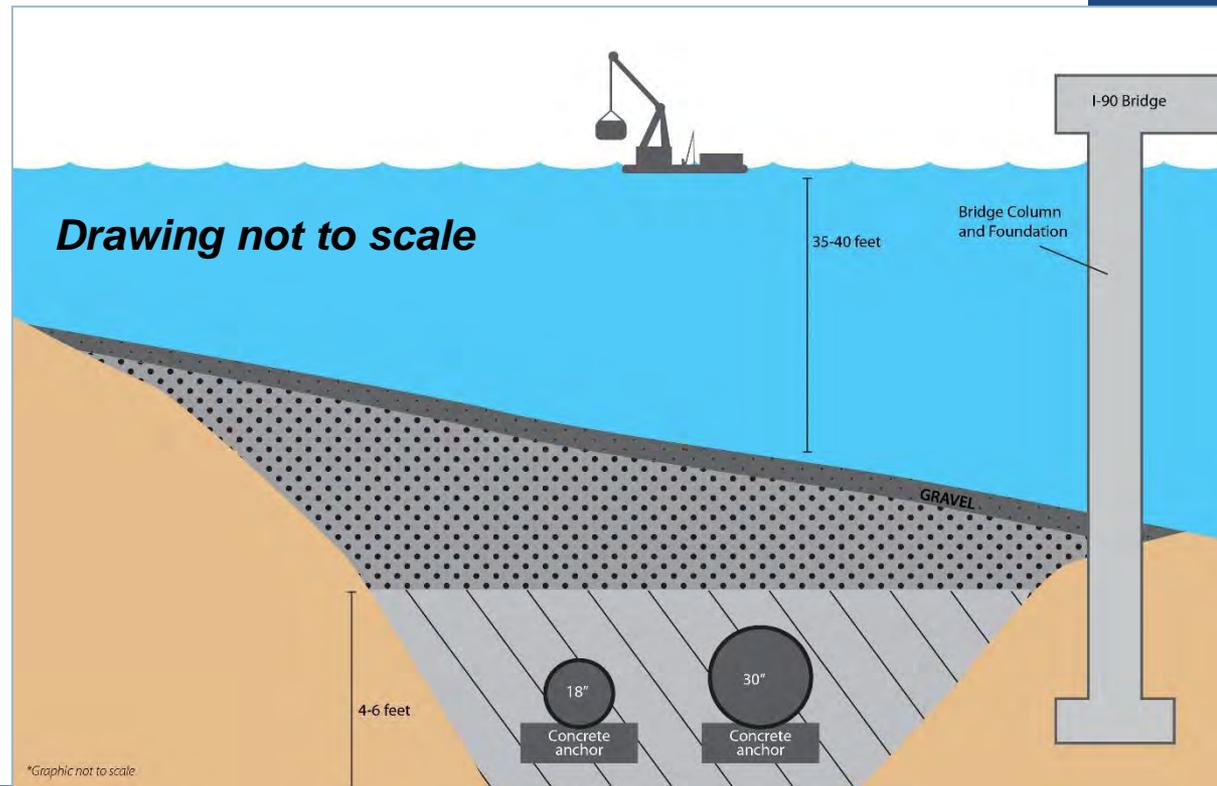


- East Channel crossing will begin at Mercer Island Boat Launch
- Work in the channel occurs mostly from barges

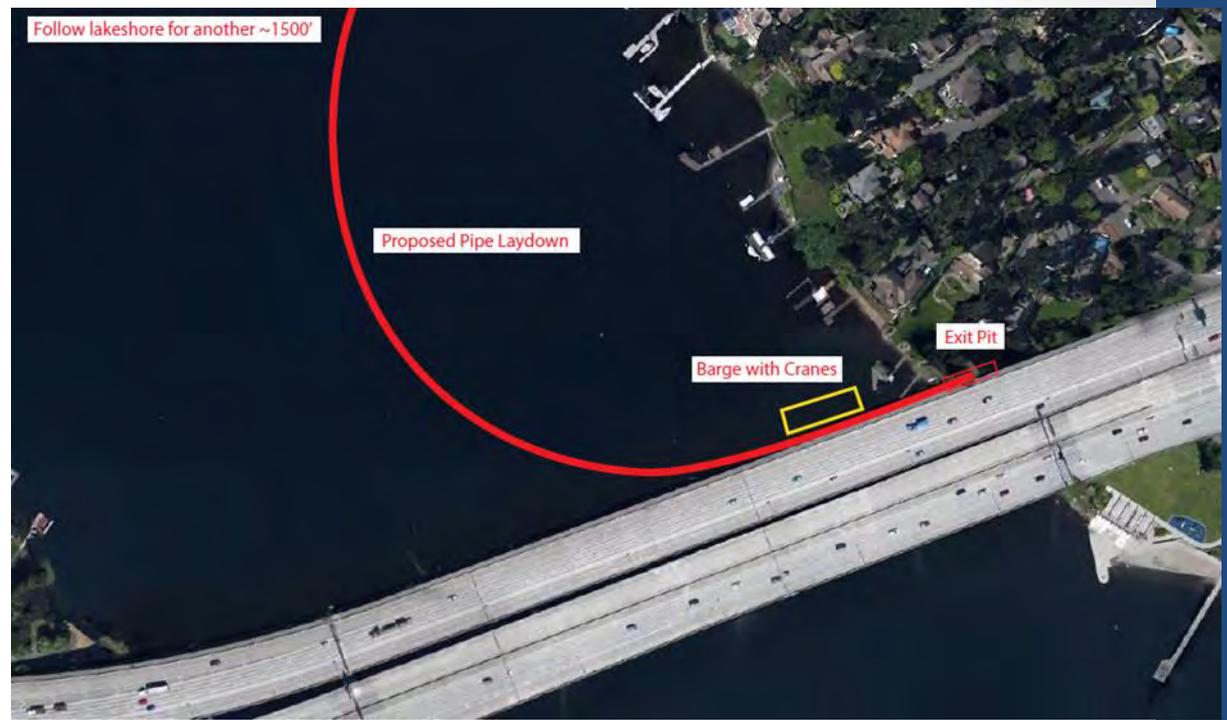


East Channel: In-water construction

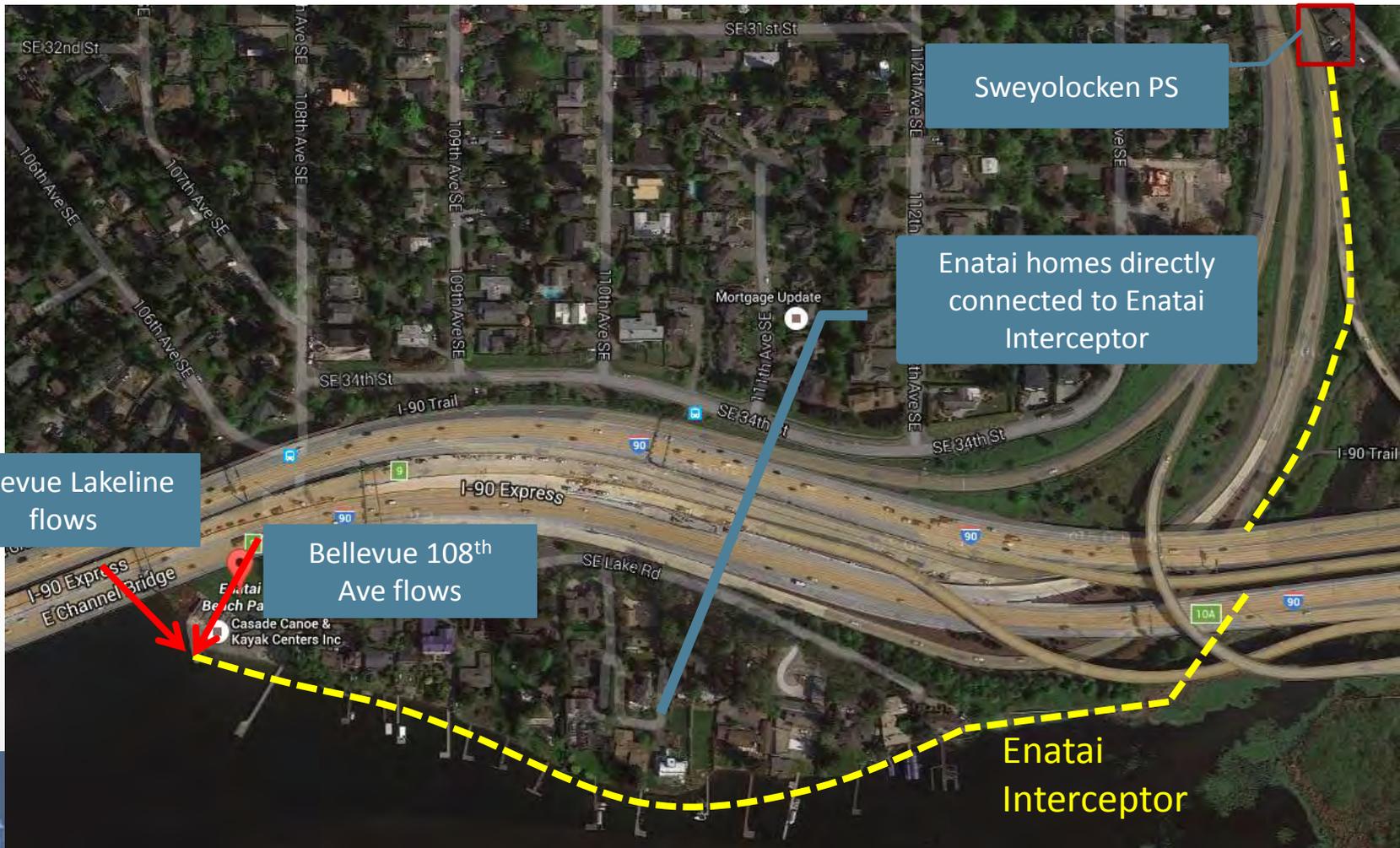
- Steps:
 - Dredging
 - Disposal
 - Pipe Installation
 - Pipe Backfill



Pipeline pullback for Enatai alignment



Enatai Interceptor will stay in service



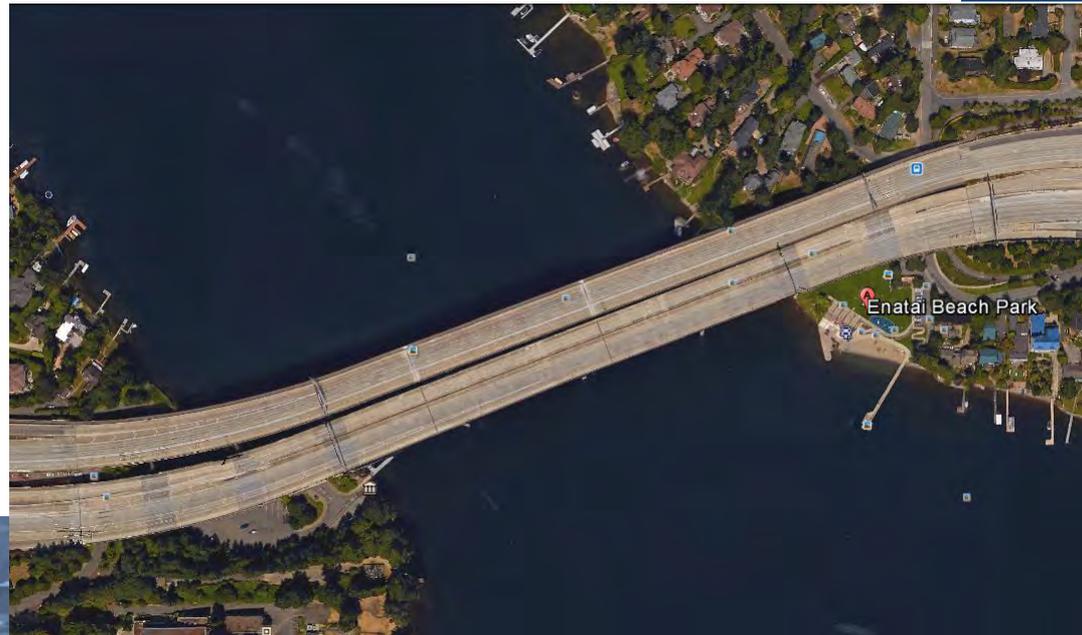
Protecting and restoring the environment

- Proactive work with permitting agencies and tribes during design
- Best Management Practices for protecting waterways during construction
- Shoreline areas restored according to permit conditions



Field investigations to inform design

- Types of work you may see:
 - Surveys – on land and in water
 - Geotechnical borings- on land and in water
 - Pile support evaluation along Mercer Slough



More detail to come

- Final Alignment
- Odor Control during operations
- Construction considerations
 - Traffic control
 - Meeting noise requirements
 - Ensuring Best Management Practices for working in the shoreline
 - Construction staging and hauling
 - Work hours, seasons

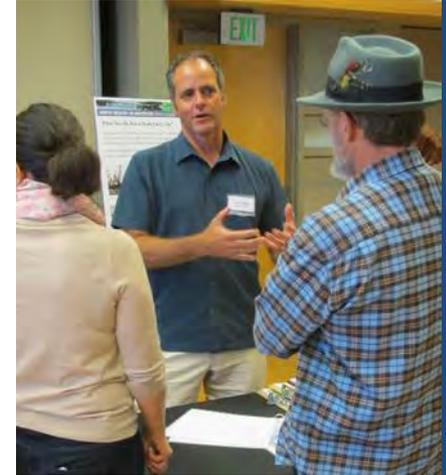


NEXT STEPS



Early Design

- Continue responding to questions and concerns
- Meet with neighbors, groups, and property owners
- Provide notice of field work
- Web and newsletter updates
- Participate in the Mercer Island Summer Celebration
- In-person and online meetings in late fall to provide update



Responding to community input

- Community impacts:
 - Can you reduce impacts to the Mercer Island Community and Event Center?
 - Can you maintain boating access and avoid impacts to Seafair events during pipeline pullback?
 - What will the traffic impacts be? Where will trucks haul from?
- Coordination with Sound Transit
 - Are you coordinating with Sound Transit?
 - Will your projects overlap?
 - Can you reduce impacts from these projects coinciding?



We'll be with you every step of the way



- Pre-construction meeting with the contractor
- 24-7 hotline throughout construction
- Progress updates
- Problem solving



Keep up to date!

- Provide best contact information
- Subscribe to email list and text messaging
- Visit us this summer at the Mercer Island Summer Celebration and/or Enatai Beach Park event
- Email or call with your questions, suggestions, and concerns
- Request a meeting or briefing





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Questions and discussion

For more information, please contact:

Monica Van der Vieren

206-477-5502

Monica.vandervieren@kingcounty.gov



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New pipeline under Enatai



*Note: Depth of pipe and pipe alignment depend on technology used and further design work. These will be refined as the project progresses.



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Recommended construction method:
Horizontal Directional Drilling

