

Seattle Pacific University Briefing June 11, 2014



King County Wastewater Treatment Division

Protects public health and the environment

- Collects, cleans and safely discharges sewage and polluted stormwater
 - 180 to 400 million gallons/day
 - Creates resources

1.5 million customers
 600 employees
 350 miles of pipe
 62 pump/regulator stations
 5 treatment plants

• West Point in Magnolia serves Fremont and Queen Anne



City of Seattle and King County work together to clean sewage and polluted stormwater

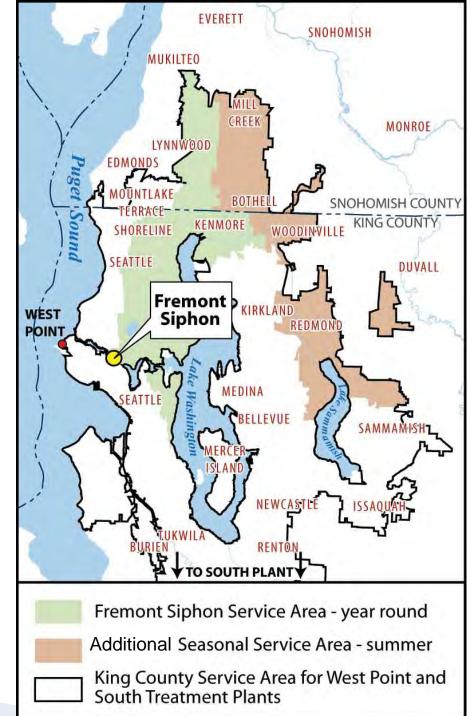


- Sewage comes from:
- Homes/businesses
- Stormwater is rain runoff from:
- Streets/driveways
- Yards/open spaces
- Drains into City pipes first, then bigger County pipes
- County pipes send to treatment plant

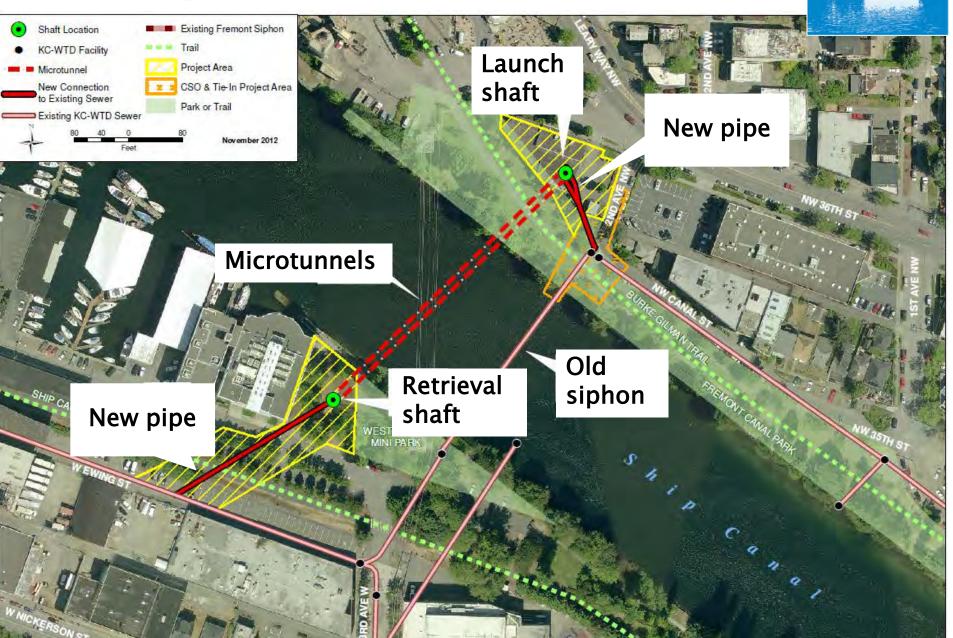


The Fremont Siphon

- Delivers <u>half</u> of West Point's daily wastewater volume
- 220 million gallons/day
- Serves a large, dense area
- Winter 60 square miles
- Summer 114 square miles
- A big, old pipe
- 4-foot and 5-foot pipes running next to each other
- Under Ship Canal
- About 100 years old



Building the new Fremont Siphon



Work activities in Fremont

- Clear odor control site
- Dig shaft
- 80 feet deep
- Drill tunnel/separate soils
- 470 feet across
- **Connect siphon**
- New 9-foot pipe, 75 feet long
 Replace, relocate City CSO pipe
 Build odor control facility
 Restore project area

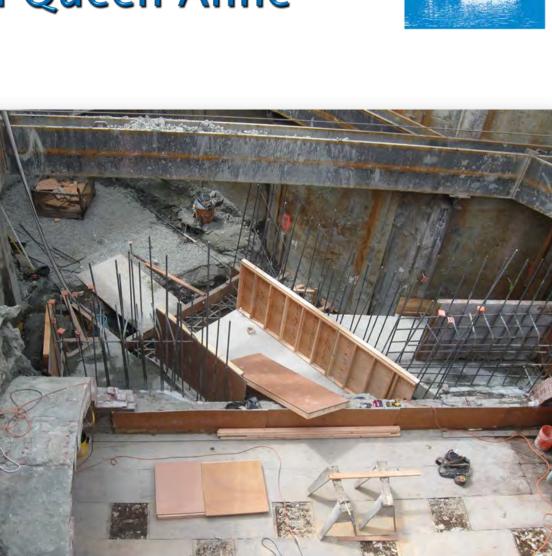




Work activities in Queen Anne

Dig shaft

- 75 feet deep
- **Connect siphon**
 - 11.5-foot pipe, 230 feet long
- Decommission old siphon
- Restore project area
 - Work schedule limits impacts to SPU during school year





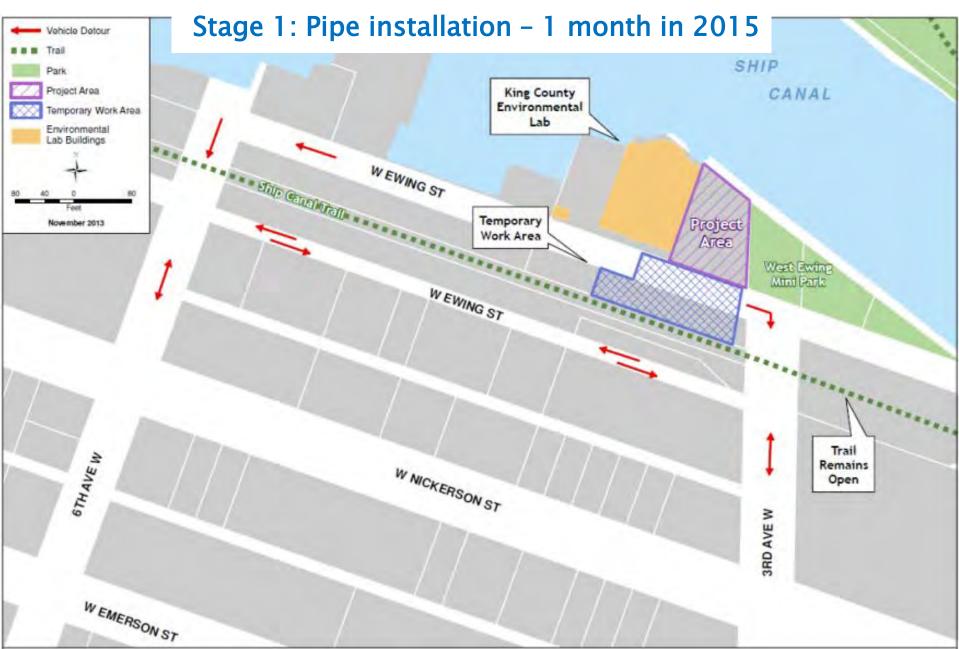
What to expect during construction

Daily work on most weekdays

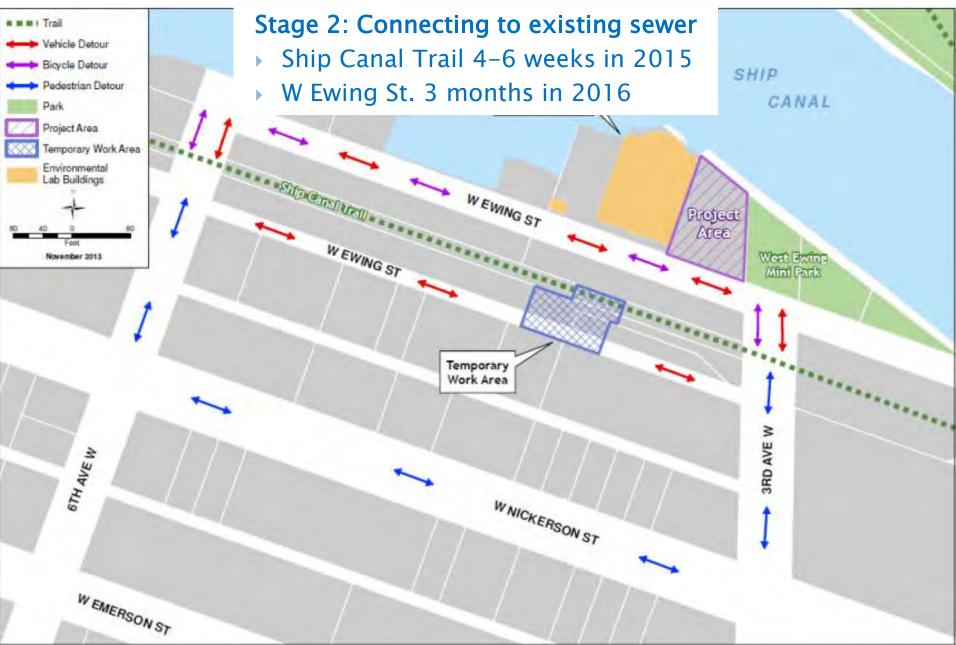
- 2.5 years to build
- Crews, trucks, drills, excavators
 - Safety fencing around site
- Noise, dust, and vibration
- Increased truck traffic
 - Routed away from SPU during school year
 - Potential for short traffic delays
 - Traffic control flaggers available
- Traffic, pedestrian detours
 - Reduced access to Fremont Canal Park, W. Ewing St., Ship Canal Trail



Queen Anne traffic & pedestrian detours



Queen Anne traffic & pedestrian detours





New trees planted

- 60+ new trees
- Planted on both sites
- Sick trees not replaced
- Improved landscaping
 - Invasive ivy removed
 - Native plants added
- Stormwater controls
 - Raingarden
 - Grass-crete (pervious)





What's next?

Summer 2014

- Contract out for bid
 Fall 2014:
- Contractor hired
- Pre-construction community meeting
 End of 2014
- Construction begins

Staying in touch Prior to construction:

- Personal meetings
- Briefings
- Email updates
- Newsletter
- www.kingcounty.gov/fremontsiphon
- Pre-construction community meeting

During construction:

- Advance notice of activities via email, flyer, web update, phone calls
- 24-hour construction hotline
- Submit comments online



For more information



Doug Marsano

- Phone: 206–477–5549
- Email: doug.marsano@kingcounty.gov

Visit:

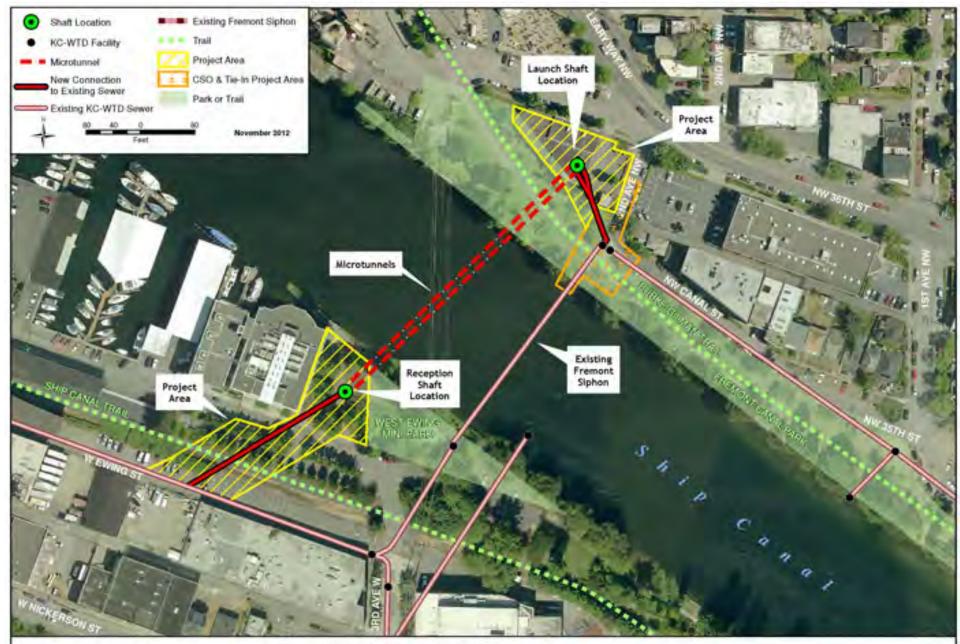
www.kingcounty.gov/fremontsiphon



Questions?

Seattle Public Utilities 3rd Avenue West Tunnel Water Main Replacement Project

Seattle Public Utilities



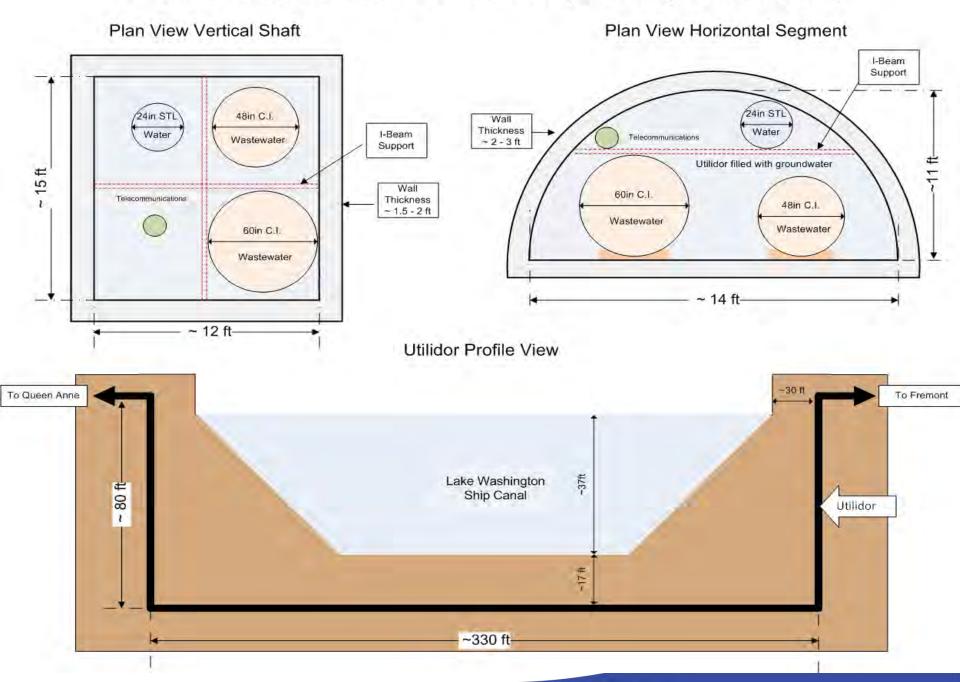


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Fremont Siphon Pipeline Replacement, Project Area

3rd Ave West Utilidor Schematic (Existing Conditions)



Water Main Work



Seattle Seattle Utilities

Water Main Work

- SPU to Replace Water Main in Tunnel after Completion of KC's Fremont Siphon Project
- Planning: 2013
- Design: 2014-2016
 - SPU Ongoing Community Outreach
- Coordination with KC
 - Partnering in Community Outreach and Early Engagement for SPU Water Main Project
 - Coordinate Project Timing
 - Reviewing Options for the Sequencing of Final Site Restoration (Cost Savings and Minimize Impacts)

Seattle Public Utilities

QUESTIONS?

SPU Contact: Paj Hwang Paj.Hwang@seattle.gov 206.386.4198

Seattle Public Utilities