



**King County**

Department of Natural Resources and Parks  
Wastewater Treatment Division

# COAL CREEK SEWER UPGRADE

# COAL CREEK SEWER UPGRADE

Community Meetings  
May 15 and 29, 2019



## Tonight's Discussion

- How King County WTD serves your area
- Why we need to build a new Coal Creek pipe
- Where we will build the new pipe
- What the project means for the community
- How we will work with you



# COAL CREEK SEWER UPGRADE



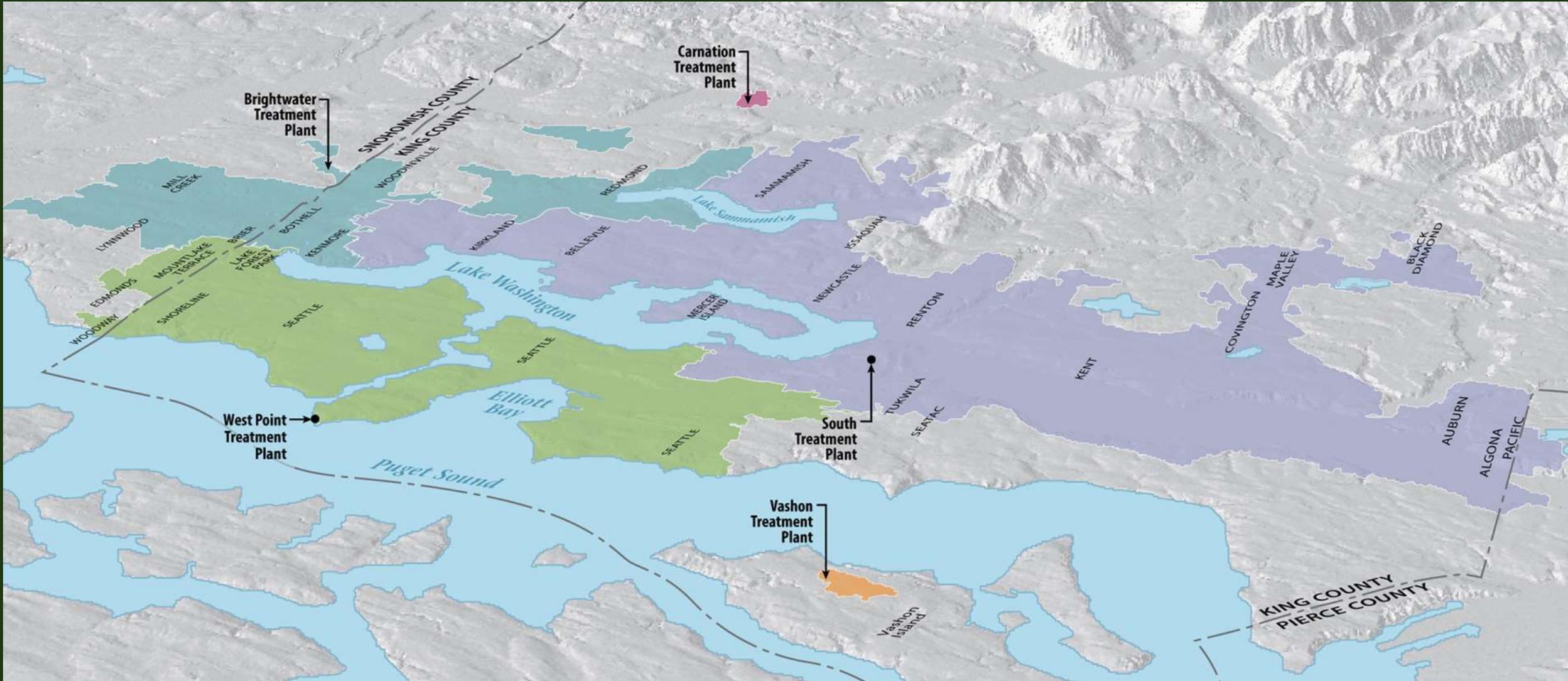
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## Meet the project team

Mary Beth Gilbrough, current King County Project Manager

# King County WTD serves our region



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## A time before sewer service



Photo courtesy of Seattle  
Municipal Archives, ID# 38497



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the  
next

**50** Clean Water & Beyond



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



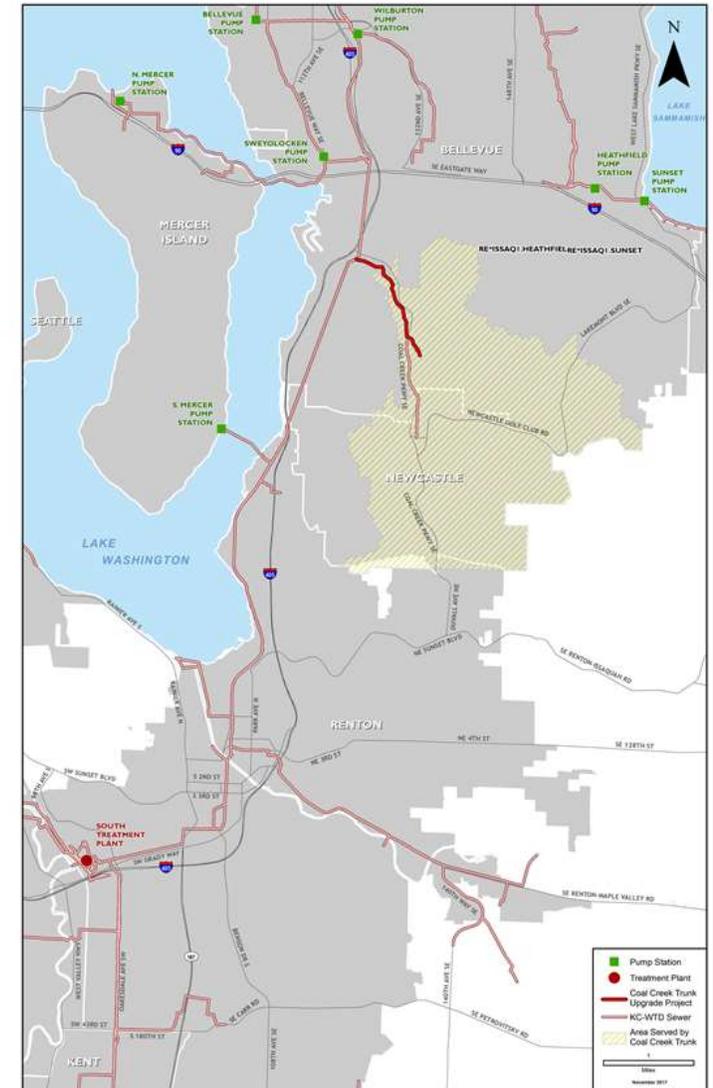
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# COAL CREEK SEWER UPGRADE

## Where your wastewater goes

- The water from your drains travels through your side sewer
- The City of Bellevue collects your wastewater
- King County collects Bellevue wastewater for treatment at South Plant in Renton

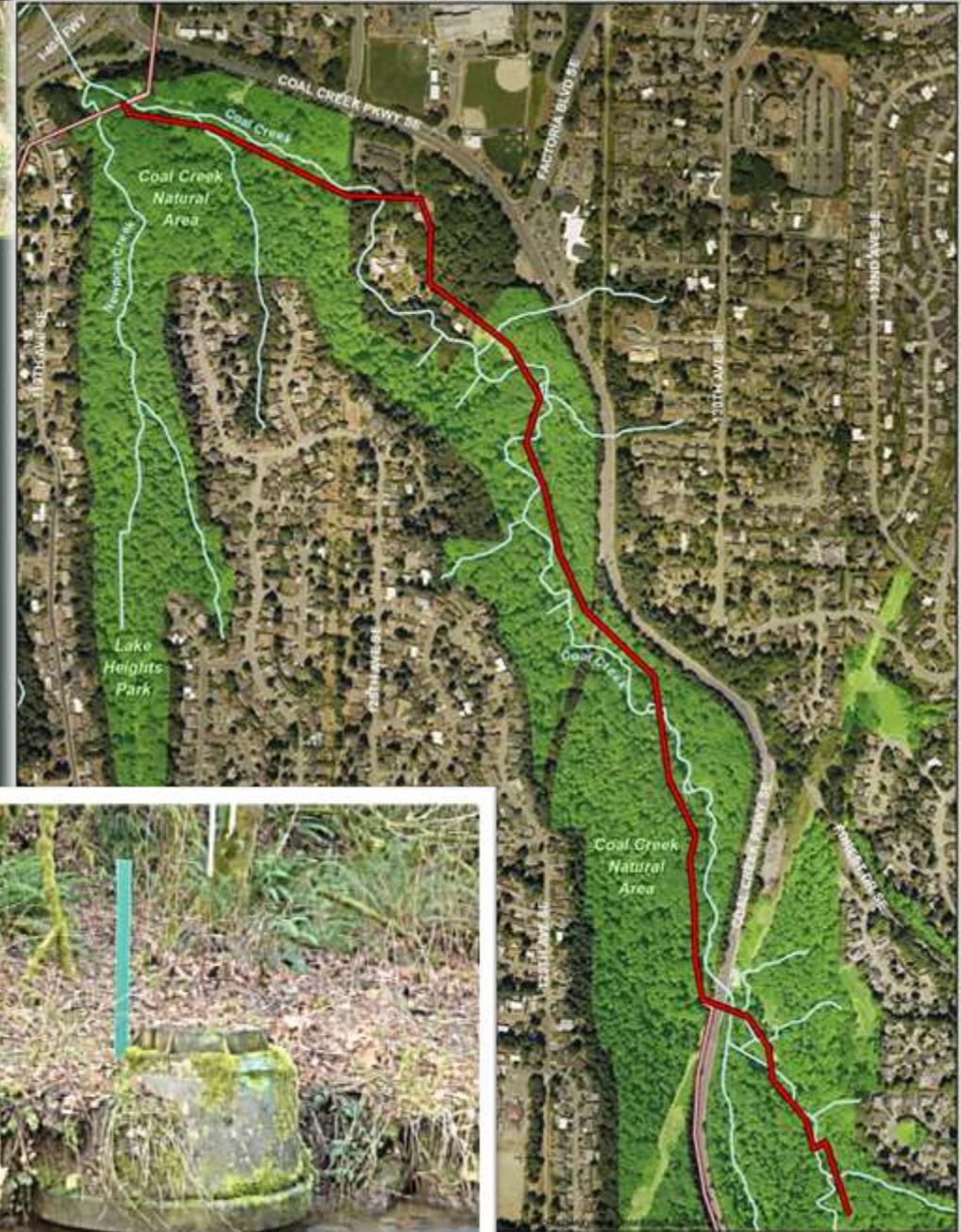




# COAL CREEK SEWER UPGRADE

## Coal Creek Trunk

- Built in the 1960's-1970's
- Pipe mostly follows Coal Creek
- Difficult to access for maintenance
- Located in a popular natural area with history and habitat





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## COAL CREEK SEWER UPGRADE

### Why do we need to do this project?

- The north Coal Creek Trunk needs more capacity
- Development and inflow from leaky sewers has taken up most of the room in the pipe
- The new pipe will provide capacity to 2060



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## COAL CREEK SEWER UPGRADE

# Opportunity for a better pipe location

This project allows us to move much of the active pipe away from Coal Creek

Flooding has exposed the pipe at least four times.





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# COAL CREEK SEWER UPGRADE

## Project Schedule\*\*



**\*\* Project schedule may change.**



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## Project overview

Ron Bard, Project Manager, Brown and Caldwell

# COAL CREEK SEWER UPGRADE

## Getting started

- Evaluate different options and construction methods
- Conduct field work: geotechnical studies, surveys
- Identify best method and alignment





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## Options the team evaluated

- Replace the pipe in the existing alignment\*
- Install a new pipe outside the creek area by:
  - Open cut in the parkway (highest traffic impact)
  - Trenchless alignment with work in parkway (significant traffic impacts)
  - Recommended trenchless alignment (least traffic impacts)

*\*Natural Area is affected by all alternatives*

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## Project elements

- Install new Coal Creek Trunk using trenchless method (tunneling)
- Multiple pipe segments to maintain local connections; some trenchless, and some open cut
- Restoration of work areas



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## What King County will build\*

### North work area

- Staging
- Removal of tunneling equipment
- Install pipe to maintain local connections
- Install connection to the County's Eastside Interceptor
- Restoration



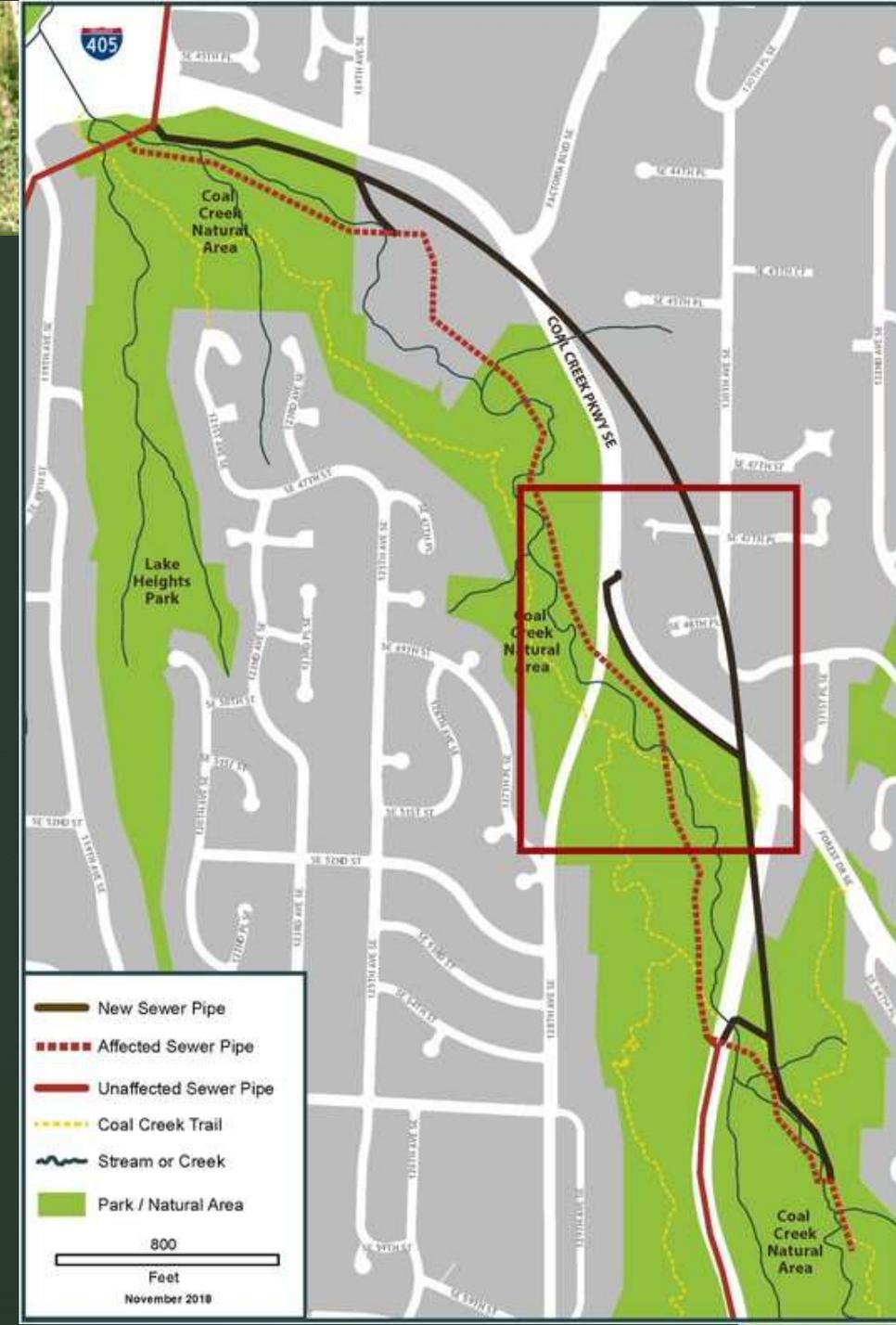
Connecting to King County's regional system



# COAL CREEK SEWER UPGRADE

## Central: City of Bellevue connections

- Pipe installed by tunneling
- Traffic lane closures needed to build pits
- Tree removal in area by shafts
- Restoration





**Traffic  
disruptions  
will occur on  
Coal Creek  
Parkway.**

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## South: Upper West Trailhead

- Entry point for tunneling new Coal Creek Trunk
- Install pipe along trail to maintain Bellevue Connections
- Install pipe in Coal Creek Parkway to connect to the Coal Creek sewer pipe from Newcastle



Construction will affect natural areas and some trails.



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## Impacts: Upper West Trailhead

- Trailhead and part of trail closed for up to 24 months (access maintained for sediment removal)
- Extended work hours may be needed
- Traffic impacts to Coal Creek Parkway for connection
- Pavement, trailhead, and trail restoration



King County's contractors keep people safe while working in recreational areas.



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## Parking area on Forest Drive

- King County's team is working with Bellevue on options for increased parking
- Additional parking being considered on Forest Drive



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## Restoring the environment

- Historic layout of the local and County sewer systems means construction affects sensitive areas
- Post-construction restoration will focus on three ecosystems:
  - Forests
  - Streams
  - Wetlands



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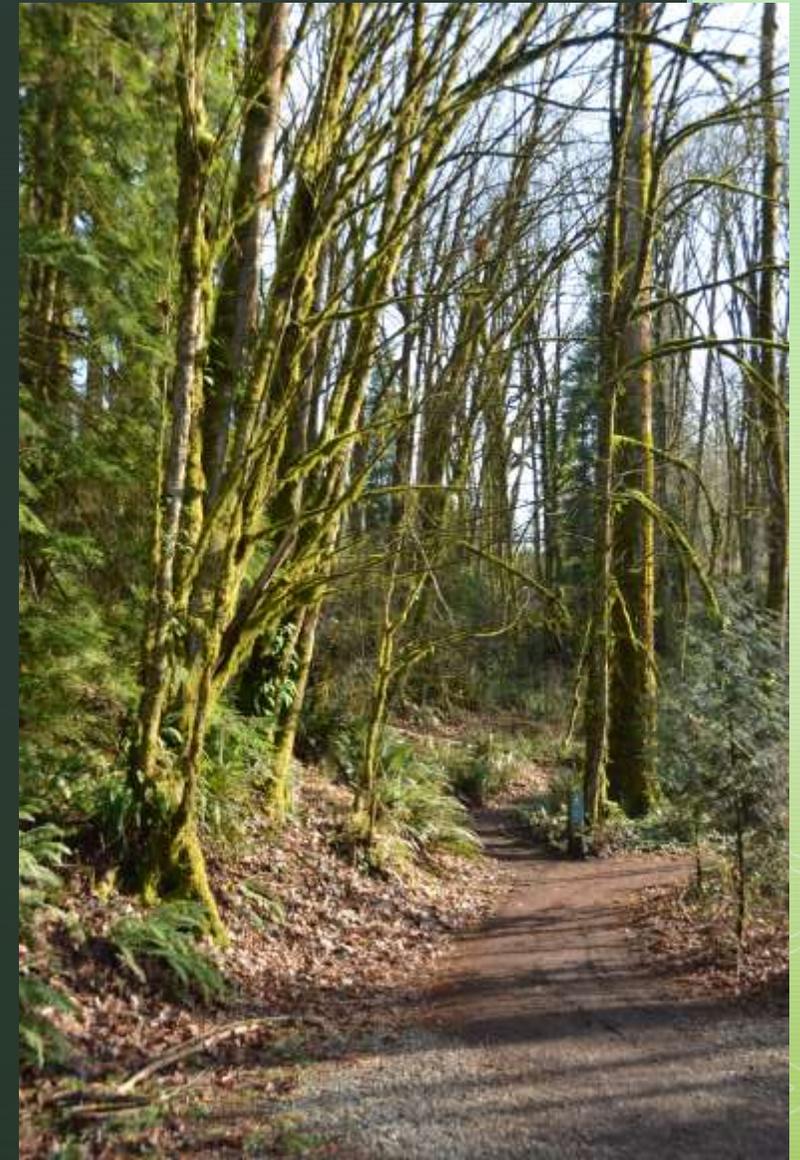


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## Forests

- Goal: Start affected forest in the Natural Area on a more sustainable path
- Tree replacement ratios will be determined by regulatory agencies, and exceed numbers removed





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## Streams

- Goal: In affected areas, stabilize banks for natural stream flows and habitat while protecting trails and infrastructure
- Permits and contracts direct stream work, protection, and monitoring during construction.





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## Wetlands

- Goal: Restore affected wetlands to help store and clean water, and provide wildlife habitat
- King County's Mitigation and Monitoring program will ensure restored areas get established.





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## Working with the community

Monica Van der Vieren, King County Community Relations

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## Addressing trailhead impacts

What we are exploring:

- Reusing materials
- Maintaining trail access and parking
- Building on previous improvements with greater accessibility and enrichment
- Events and programming





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## Ideas: repurposing and recycling materials

- Store and return signage
- Use landscaping materials on other City of Bellevue sites
- Host a community plant salvage for some plants





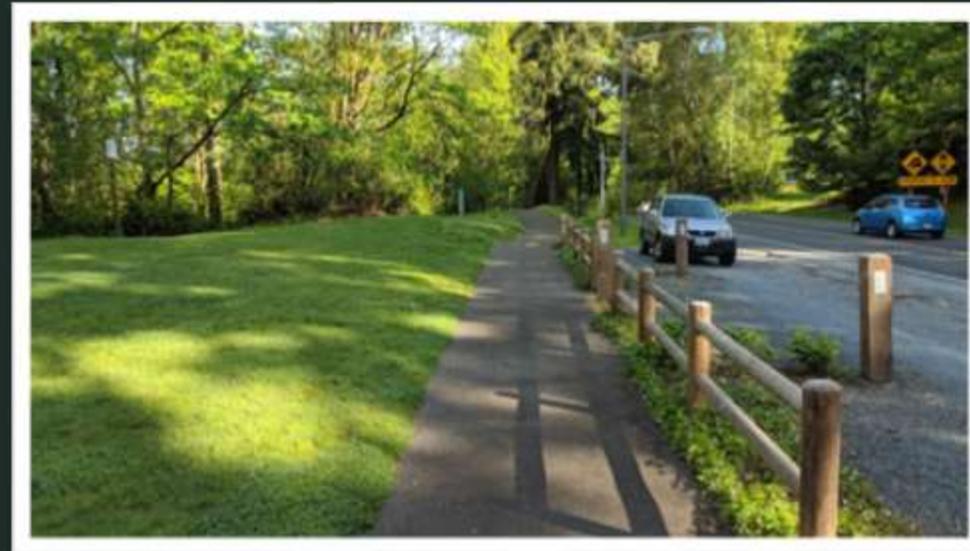
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## Ideas: Maintaining trail access and parking

- Potential for more parking on Forest Drive
- Build trail detour through Bellevue youth employment program





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## Ideas: Increase accessibility and enrichment

- Make trailhead area more welcoming for all
- Restore grade and surface for maintenance and access
- Add interactive signage and accessible seating
- Create online content and guidebooks for restored area



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## Ideas: Events and programming

- Host site events and walks for the community and area users
- Provide community workshops at Lewis Creek and Mercer Slough EEC
- Host community events for groups involved in natural areas, wildlife, and water quality



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## Our toolkit

- Project Web page
- Newsletter and electronic updates
- Community meetings and briefings
- Online meetings
- Fairs, festivals, and events
- One-on-one meetings
- Notice of activities
- 24/7 hotline during construction





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## You can help us serve you

- Tell us the best ways to contact you and keep you up to date
- Ask questions, share information, let us know about concerns
- Let us know if you have special needs for communications
- Give us feedback along the way- what is working, and what isn't?



WTD's project teams work to meet people where they are at



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# COAL CREEK SEWER UPGRADE

## Let's keep talking

- Visit our online open house as many times as you wish
- Ask questions, give feedback, let us know your concerns
- Join us at events over the summer
- Invite us to your meetings and events!





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# For more information

**Project Web page:**

**[www.kingcounty.gov/CoalCreekSewer](http://www.kingcounty.gov/CoalCreekSewer)**

**Online Open House:**

**Monica Van der Vieren**

**monica.vandervieren@kingcounty.gov**

**206-477-5502**



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# Questions?