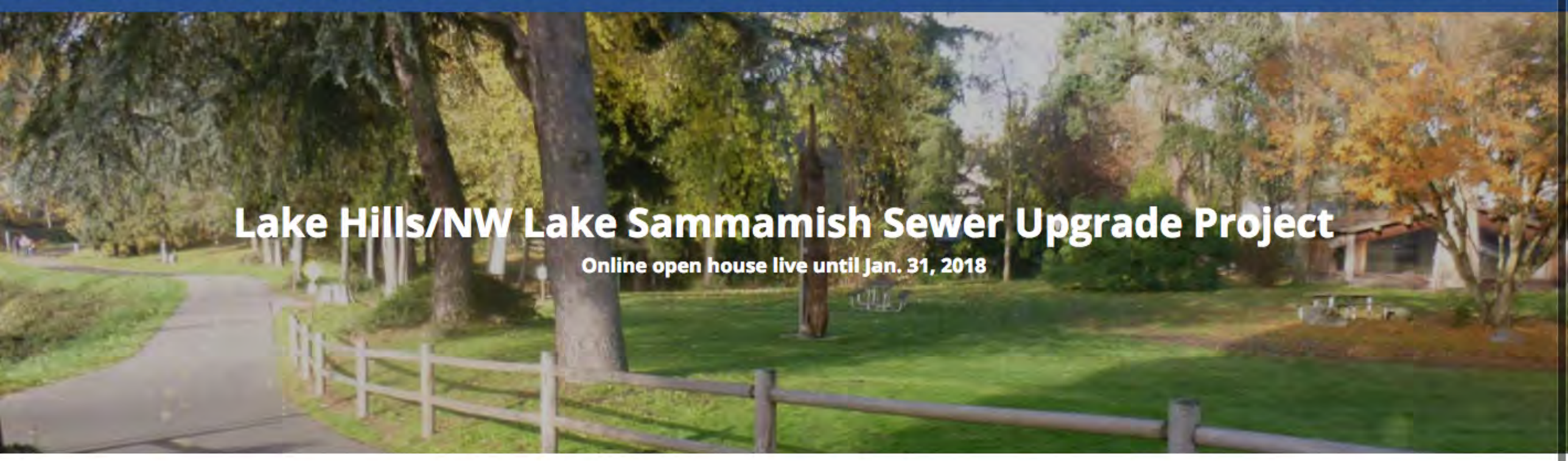
King County

LAKE HILLS/NW SAMMAMISH SEWER UPGRADE | Overview | Pipeline route | Next steps | Comment | Select Language



Lake Hills/NW Lake Sammamish Sewer Upgrade Project

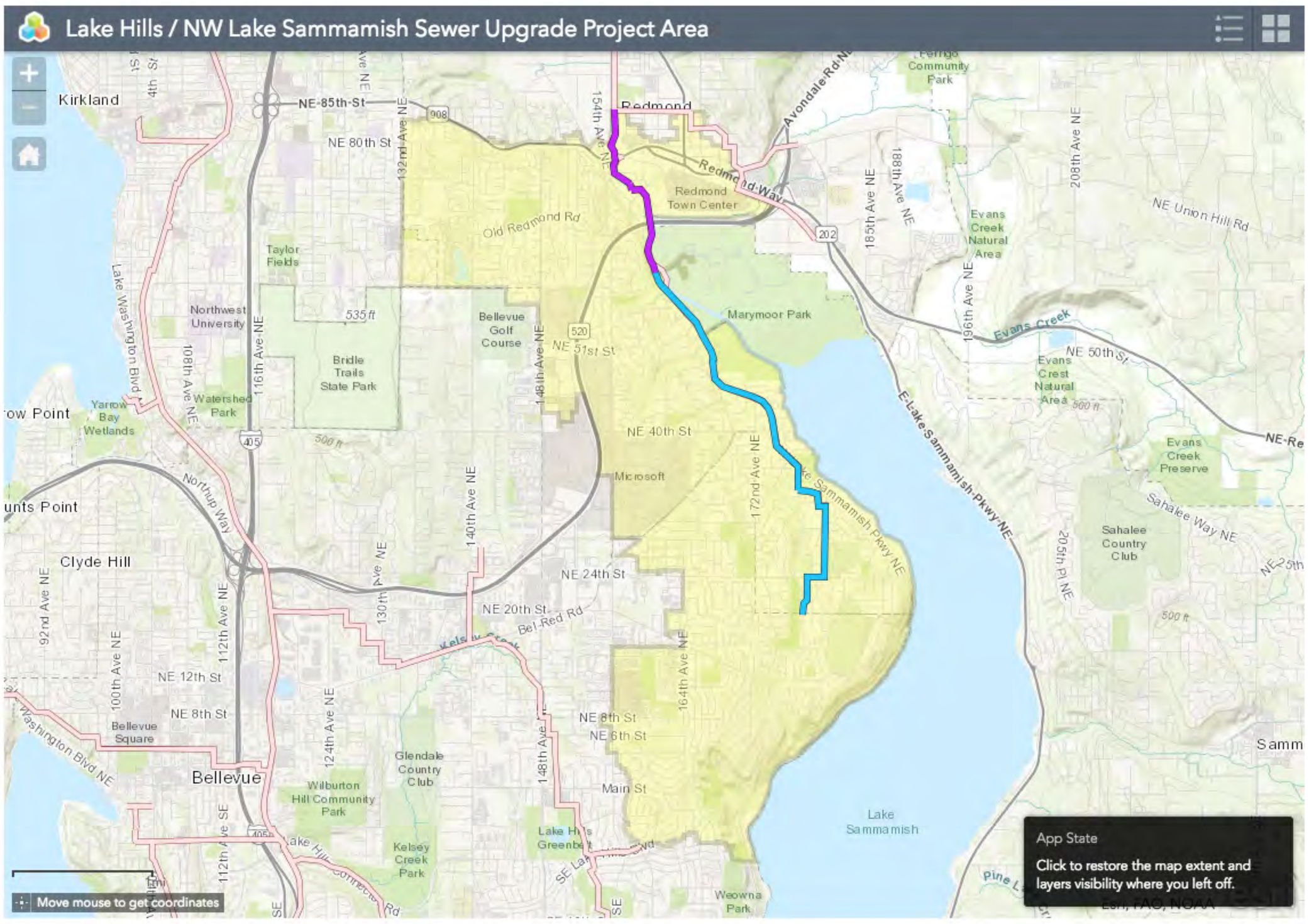
Online open house live until Jan. 31, 2018

Design for the Lake Hills and NW Lake Sammamish Sewer Upgrade Project is underway in King County, Washington

King County is upgrading nearly 4.5 miles of sewer pipe in Redmond to meet the needs of your growing community. Construction is expected to begin in 2020. While the sewer pipe is under construction, King County will also install 1.5 miles of pipe to carry recycled water. When complete, the new pipes will provide reliable sewer service and an important connection for the potential future use of recycled water in the area.

We're glad you joined the conversation

Please use the tabs to review the latest project information and maps. A comment form is available for you to share your thoughts with the project team. We look forward to hearing from you.



Explore the project

PROJECT OVERVIEW →

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES

Project overview

Providing sewer service for a growing community

King County serves our growing region by replacing aging infrastructure and providing capacity for the future.

King County is working on the final design for the sewer upgrade, which begins in Redmond's Idylwood neighborhood, continuing along West Lake Sammamish Parkway between Idylwood and Marymoor Parks. North of the park, the pipe follows the Sammamish River Trail, crossing the Sammamish River at Leary Way NE and following the trail to NE 85th Street.

Today's engineers design around a legacy from the past. The existing Lake Hills and NW Lake Sammamish sewer line was installed in the 1950s and 1970s in an area that looked a lot different from today. The alignment for the new sewer line is in roughly the same location as the existing pipe because there were no alternative routes that would allow the County to keep wastewater flowing efficiently without negatively impacting the natural environment and infrastructure that has built up around the sewer line.

1954 King County Aerial Survey photo of the Sammamish River and West Lake Sammamish Parkway.

2016 King County Aerial Survey photo of the Sammamish River and West Lake Sammamish Parkway.

Reducing future disruption to your community

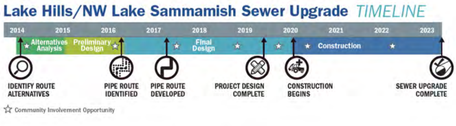
For future potential use of recycled water in the area, King County will install a new recycled water pipe parallel to the sewer line between NE 85th Street and the West Lake Sammamish Parkway entrance to Marymoor Park. By adding the recycled water line at the same time as the sewer is upgraded, King County can limit future disruption to your community.

To learn more about how King County is creating and using recycled water from our wastewater treatment processes, visit our website:
http://www.kingcounty.gov/recycledwater

Recycled water from Brightwater Treatment Plant is considered "Class A," meaning it is safe for human contact, but is not approved for drinking. This means we can use it for industrial processes like heating or cooling or for watering crops, lawns and sports fields. Class "A" is the highest possible rating for recycled water quality.

Project schedule

Construction is scheduled to begin in 2020 and is expected to take about three years to complete. When work is complete, the new Lake Hills and NW Lake Sammamish sewer pipe will be ready to serve Redmond for another 50 years or more.



Project cost and regional funding

The project is funded by monthly sewer bill revenue and borrowed funds (bonds). Because King County operates a regional sewer system, ratepayers throughout the entire service area will help cover the cost of the project through their monthly sewer bill.

Explore the project

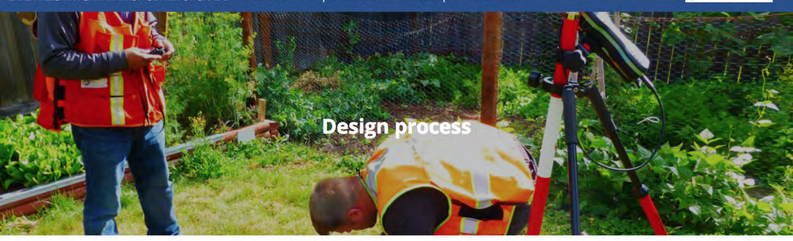
DESIGN PROCESS →

← WELCOME

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES



Design process

Developing and refining a sustainable design

Our goal is to design a system that provides safe, reliable sewer service for 50 years or more. Initial design drawings for the project were completed in early 2017. As the team works to further develop and refine the design, we'll be considering:

- **Evaluating environmental conditions**
- **Environmental review and permit requirements**
- **Direction from local government and partner agencies**
- **Your input**

See more detail on each of these categories below.

Evaluating environmental conditions

We have been conducting fieldwork and other studies to develop an initial understanding of the physical conditions along the route, including soils, groundwater levels, slopes, existing utilities and other structures. We will conduct additional fieldwork during final design.

Environmental review and permit requirements

We are taking an inventory of the natural and built environment near the project area. We will use this information to reduce disruptions during construction and plan for restoration. Some of these plans are required before King County can acquire the permits needed for this project.

Direction from local government and partner agencies

The project team meets regularly with local jurisdictions, including the City of Redmond, and partner agencies to get feedback on the developing design. We will continue to work with our partners during final design.

Your input

We recognize that you know your community best. We want to hear from you about what we should keep in mind as we continue developing our design. We will report back to you about how your input was considered.

Please continue to the next page to learn what we've heard from you so far.

Explore the project

WHAT WE'VE HEARD FROM YOU →

← PROJECT OVERVIEW

Take notes as you go

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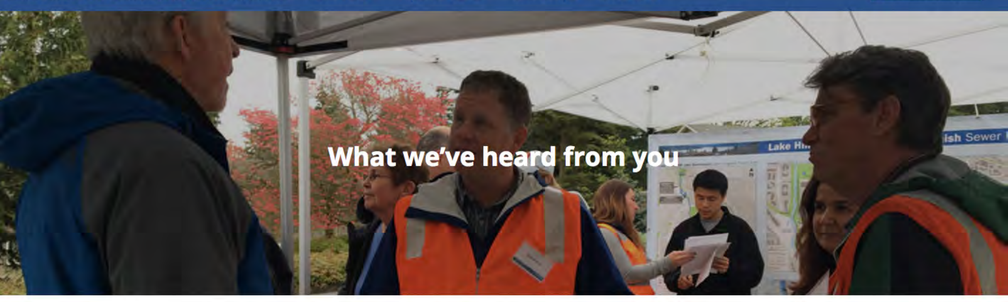
OPEN NOTES



What we've heard from you

We are committed to keeping you informed of project progress during design. We will share information about where the sewer line will be located, construction techniques we are considering and plans for restoration as information becomes available before, during and after construction. Our outreach efforts to date include:

5 community events

5 community meetings

10 community briefings

32 project updates and fieldwork notices

100+ conversations with project area neighbors and interested stakeholders

Your feedback is important to us. We will incorporate your input into the project design wherever possible. Here is a look at some of the key feedback we have heard from you so far:

Limit disruptions to West Lake Sammamish Parkway and the Sammamish River Trail; find safe, efficient detour routes for those driving, cycling or walking along these routes

Maintain access to Marymoor and Idylwood parks and the Sammamish River Trail for recreation, especially during the busy summer months

Identify and avoid sensitive plant and animal habitats in the area

Reduce work on private property

Coordinate with Audubon Elementary School and limit construction near the school during the school year

Coordinate with the City of Redmond and Sound Transit on other projects in the area, including the Redmond Central Connector and the East Link Extension

What else should we consider?

Please review the maps on subsequent pages and use the comment form on our website to let us know if there are other things we should consider as we decide how to build the sewer upgrade.

Explore the project

ROUTE →

← DESIGN PROCESS

Take notes as you go

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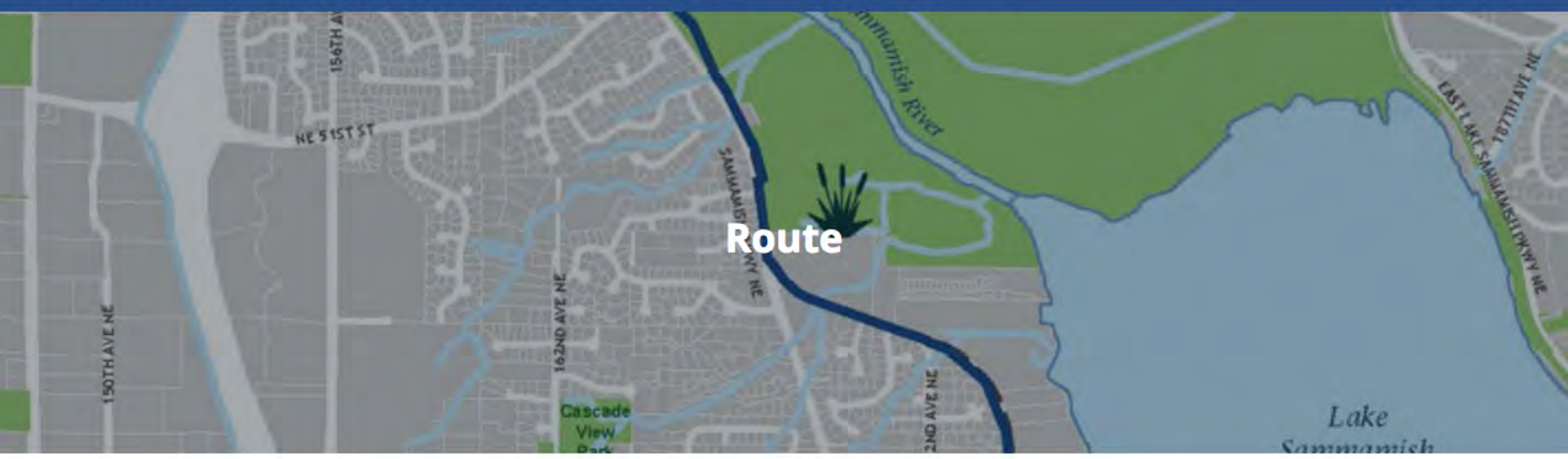
OPEN NOTES

King County

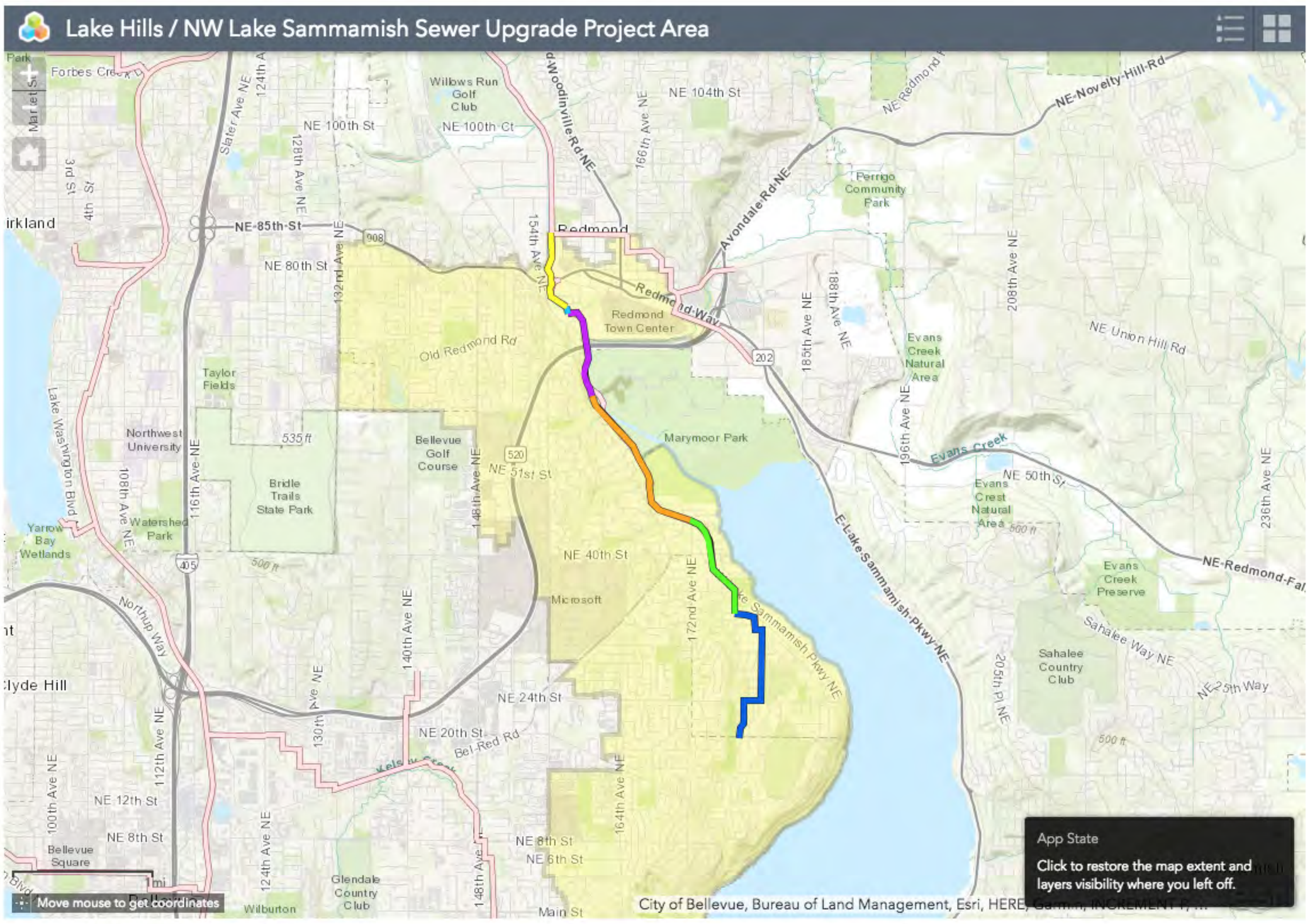


King County has developed a pipeline route based on field investigations and input from jurisdictions, partner agencies and the community. During preliminary design, King County gathered information about the project area, including soil and groundwater conditions, existing utilities, environmentally sensitive areas and cultural resources.

Using this information, along with feedback from you, local jurisdictions and partner agencies, we have:

- Divided the project into five segments based on unique conditions and construction considerations
- Developed initial design drawings for each segment
- Identified an opportunity to install a recycled water pipe while sewer pipe construction is underway

These changes are shown in subsequent maps of the project sewer route.



Explore the project

SEGMENT 1 →

← WHAT WE'VE HEARD FROM YOU

Take notes as you go

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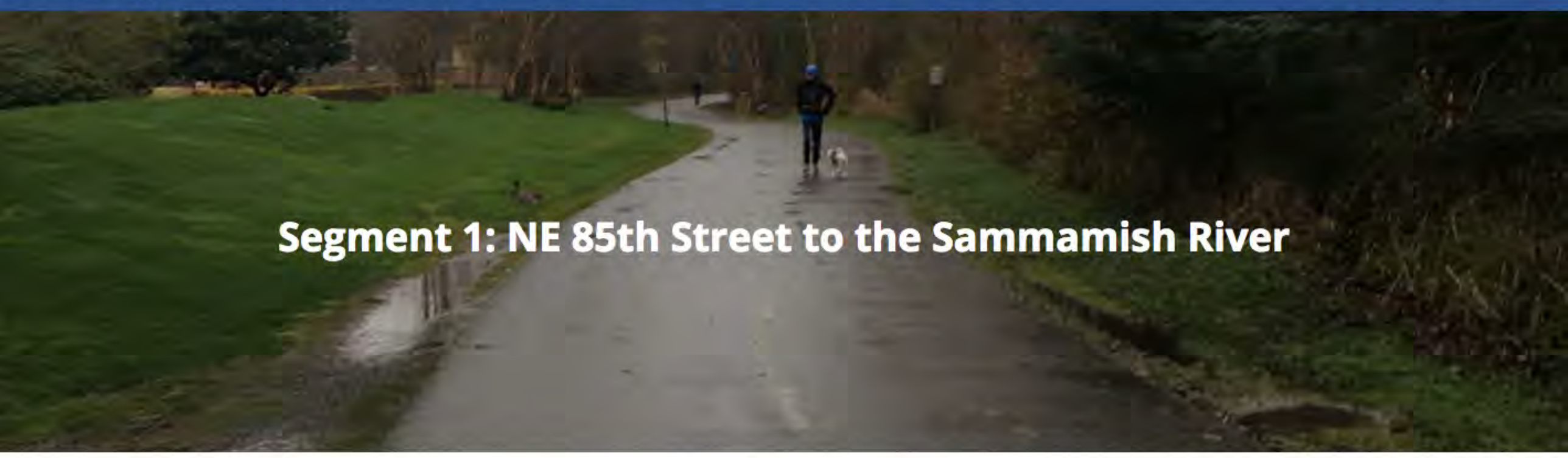
OPEN NOTES



Segment 1: NE 85th Street to the Sammamish River

King County will install a new sewer pipe between NE 85th Street and the Sammamish River, just north of Leary Way NE. After construction of the new sewer pipe, the existing sewer line will be decommissioned. A recycled water line will be installed parallel the sewer line in this segment.

Sammamish River Trail

The new pipes will run under or next to the Sammamish River Trail. There will temporary closures to sections of the Sammamish River Trail during construction. We are committed to identifying safe detour routes during closures for all trail users.

A trail study has been conducted to better understand how the trail is used and how the project may impact the trail. We welcome your feedback on our findings and other considerations about the trail.

We will restore the trail and surrounding areas once construction is complete.

Explore the project

SEGMENT 2 →

← ROUTE

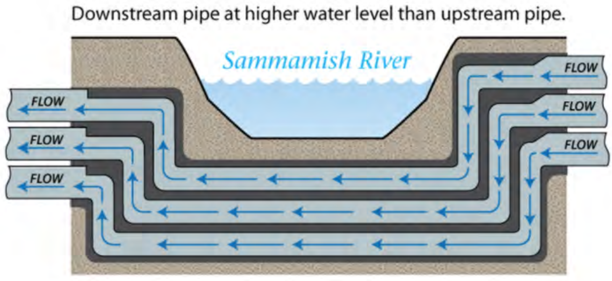
Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES

Segment 2: Sammamish River crossing

The existing sewer line crosses under the Sammamish River trail north of Leary Way. We will replace this line with a larger pipe. The recycled water line will also cross under the river in the same location.



The three pipes under the river will form an inverted siphon. The siphon will use the pressure created by pipes at different elevations to push flows under the Sammamish River.

Sammamish River Crossing

The Sammamish River and its banks provide important habitat for fish and wildlife, including migrating salmon. To reduce our impact to fish and wildlife, we are considering underground construction methods that won't require us to dig a trench across the river.

Explore the project

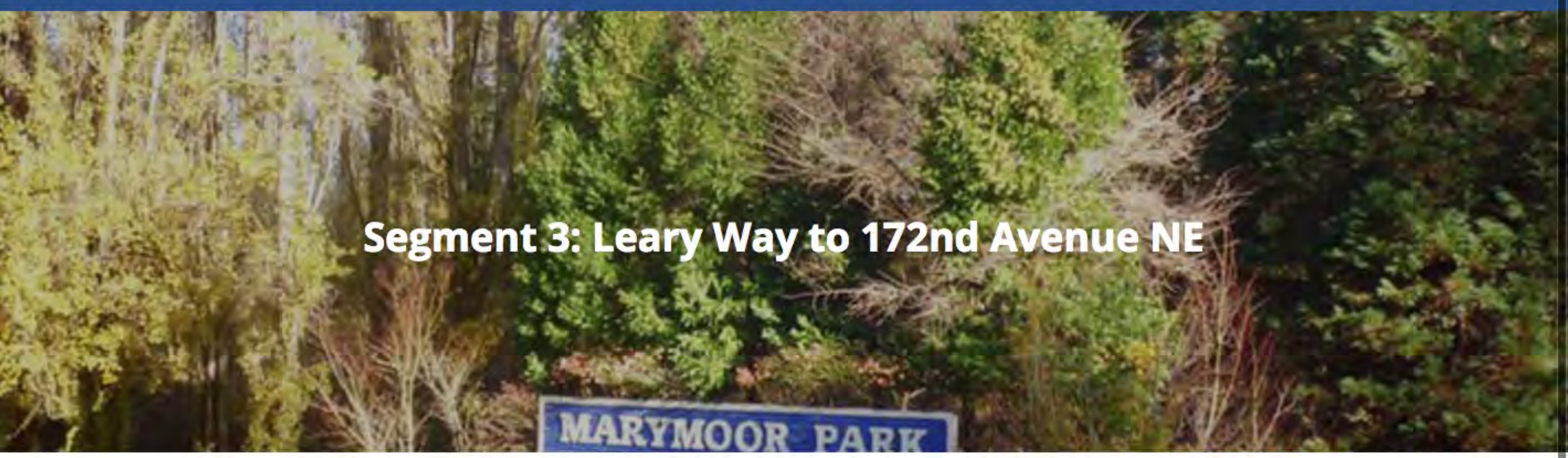
SEGMENT 3 →

← SEGMENT 1

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES



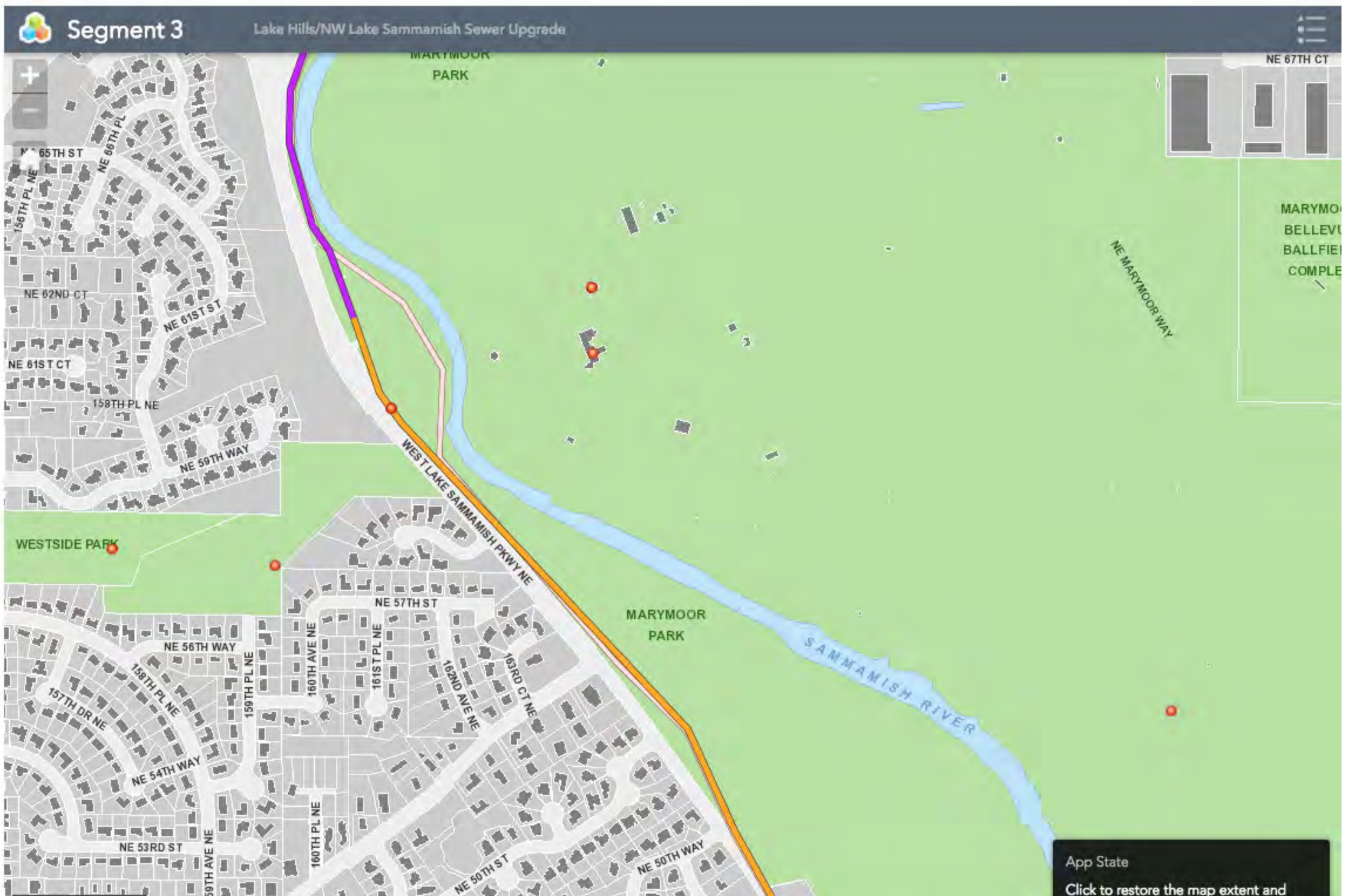
Segment 3: Leary Way to 172nd Avenue NE

We will install a new sewer line north of NE 50th Way. South of NE 50th Way, we will add a second pipe along the existing pipe to hold more flows. The new recycled water line will stop just north of the West Lake Sammamish Parkway Marymoor Park entrance.

Marymoor Park recreation and habitat

Marymoor Park is widely used for recreation and events, particularly during the summer months. We are considering underground construction methods at the park entrance off of West Lake Sammamish Parkway to reduce disruption to the park. We will maintain park access and try to work around major events in the park, when possible.

The Park also provides important wetland and riparian habitat for fish and wildlife. Our pipeline route avoids these areas whenever possible. Where we could not avoid these areas, we will follow environmental and permitting requirements to limit our construction impacts.



Explore the project

SEGMENT 4 →

← SEGMENT 2

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES

King County

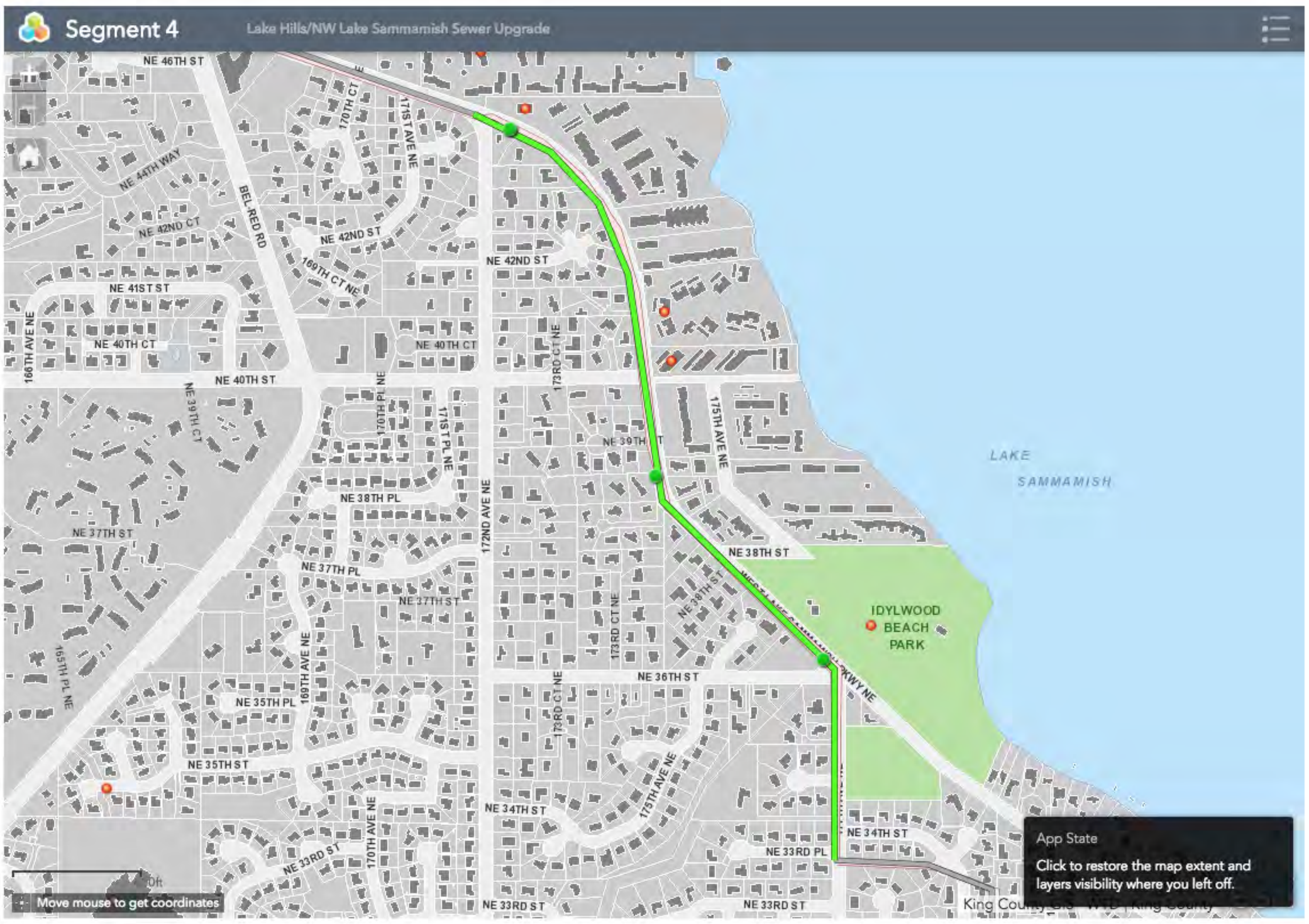
Segment 4: 172nd Avenue NE to 177th Avenue NE

The sewer pipeline follows West Lake Sammamish Parkway between 172nd Avenue NE and 177th Avenue NE. We will replace two pipes that currently run under West Lake Sammamish Parkway. We will add a third pipe to hold additional flows.

Traffic on West Lake Sammamish Parkway

West Lake Sammamish Parkway is a widely used commuter and local access route in Redmond for vehicles, cyclists and pedestrians. King County conducted an initial traffic study to better understand traffic patterns on this section of the roadway.

This section of West Lake Sammamish Parkway has heavy traffic flows in both northbound and southbound lanes throughout the day, particularly during peak commuting hours. We will consider traffic control options to keep traffic moving efficiently while work is underway, but delays and detour routes are expected.



Explore the project

SEGMENT 5 →

← SEGMENT 3

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

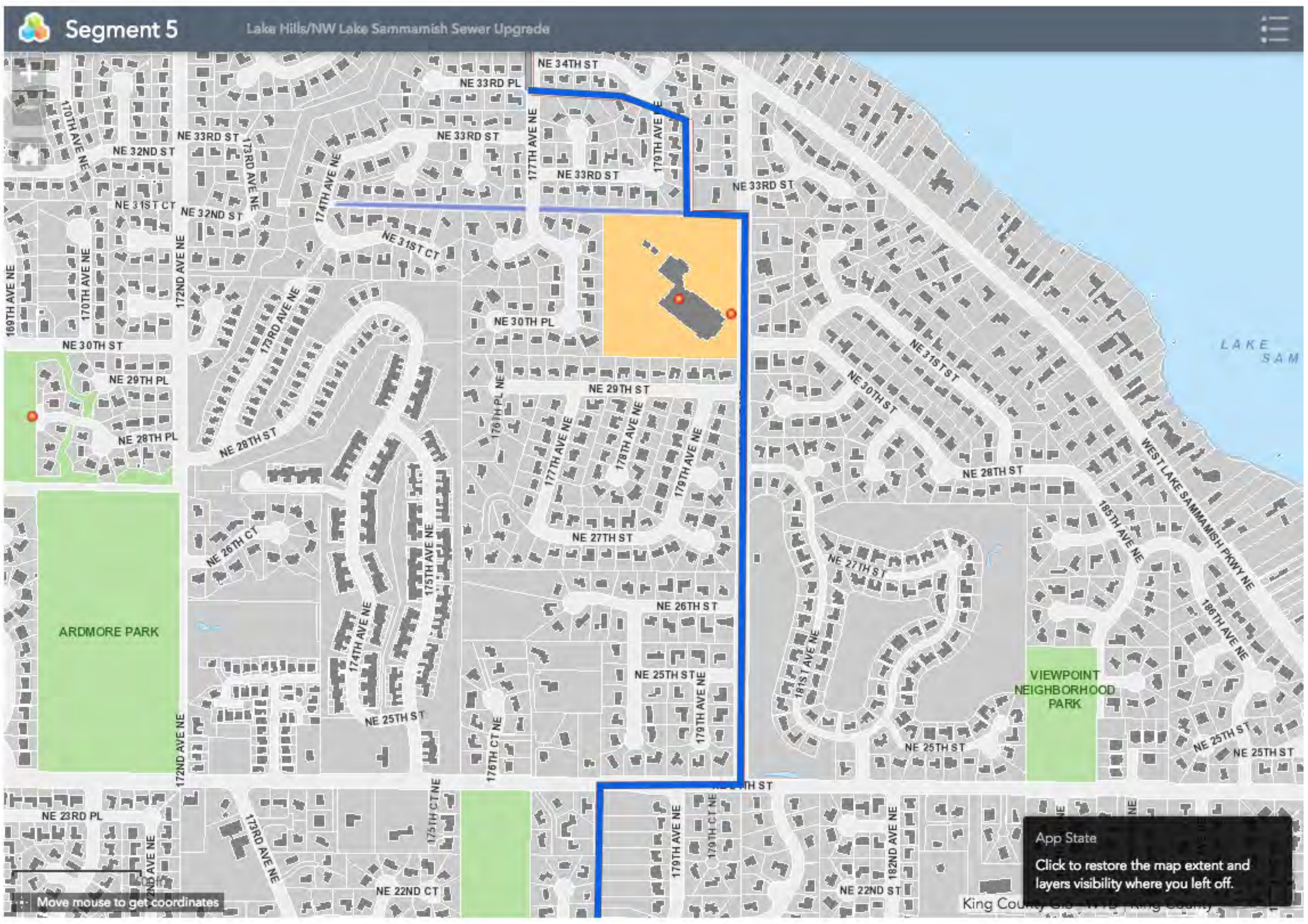
OPEN NOTES

Segment 5: 177th Avenue NE to NE 21st Street

We will replace the existing sewer in the Idylwood neighborhood. While the sewer route follows roadways as much as possible, it does run along some private property, including Audubon Elementary.

Residential areas

We will work closely with those living along the project alignment to answer questions and concerns and keep these communities informed of project progress and what to expect during construction.



Explore the project

NEXT STEPS →

← SEGMENT 4

Take notes as you go

Click the "Open Notes" button to start typing notes. You can transfer your notes to the comment form when you are done.

OPEN NOTES

Next steps

During final design, King County's project team will identify construction methods for the project, a construction timeline and develop a plan for restoration by:

Conducting additional fieldwork

Completing environmental review and acquiring permits

Continuing conversations with local jurisdictions, partner agencies

Verifying our information with you

Construction will begin in 2020

Construction is expected to begin in 2020 and take three years to complete.

We are evaluating a number of construction methods to build the sewer upgrade. The majority of the pipe will be installed using open-trench construction. Open trench construction is the most common method used for installing pipes and is preferred for shallow work zones. It will require us to dig a trench from the surface to install the pipe. Where feasible, we are considering construction methods that do not require us to dig a trench to reduce surface disruptions.

Open-trench construction will be used to install the majority of the pipe.

Construction sequencing

- Construction is expected to begin in 2020 and take three years to complete, but the entire sewer line will not be under construction at one time.
- Crews may work in segments or simultaneously at different locations along the alignment, reducing disruptions to the community wherever possible.
- We are still working to determine exact sequencing for when each segment will be built. We expect to have more information about the construction schedule by mid-2018.

We will share more information about construction methods and sequencing as design progresses.

Explore the project

COMMENT →

← SEGMENT 5

Take notes as you go

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OPEN NOTES

We want to hear from you

King County is committed to working closely with you throughout the life of the project. There will be opportunities for you to help shape the final design for the project. We'll be sure to reach out to you ahead of those opportunities. Please let us know if you have specific comments or requests. If you wish to become involved or provide feedback on the project, please fill out the form below.

COPY NOTES INTO FORM

Contact us

Name *

First

Last

Email *

Phone

Comment/question *

SUBMIT

Our project team is available for meetings, briefings, and events.
To request a meeting or to talk with the project team, contact Kelly Foley or at 206-477-8621 or kelly.foley@kingcounty.gov

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To manage your preferences, enter your email or wireless number and select Confirm.

1. **Subscription type**

Email

Email address *

CONFIRM