

Tolt Dam Early Warning System Carnation Area Community Meeting

May 11, 2022

Zoom tips and tricks

Questions?

For technical support, email
mdiaz@enviroissues.com
206-269-5041 ext 5232

7

Seattle Public Utilities



City of Seattle



Unmute



Start Video



Security



Participants



Chat



Share Screen



Record



Reactions

End



Zoom tips and tricks

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Welcome



South Fork Tolt Dam

- Earth fill dam, provides 1/3 of region's water
- Seattle City Light hydroelectric facility
- ~11 river miles to nearest homes
- ~14 river miles to Carnation
- 24/7 monitoring, daily inspections/readings
- Safety and security, emergency action plans



Meeting Agenda

- **Welcome** (*Alex Chen, Seattle Public Utilities*)
- **Project Overview** (*Josh Campbell, Seattle Public Utilities*)
- **Community Emergency Preparedness** (*Lisa Sargent, King County Emergency Management*)
- **Siren System, Signage, Other Project components** (*Joe Blaschka, ADCOMM*)
- **Upcoming Project Activities** (*Josh Campbell, Seattle Public Utilities*)
- **Next Steps** (*Josh Campbell, Seattle Public Utilities*)
- **Questions and Comments**



Update since Dec 15 community meeting

- Obtained all licenses for siren replacement
- Completed final purchasing with siren system vendor
- Incorporated final design into construction schedule
- Started construction for the new siren system
- Seeking jurisdiction approval for static signage design and locations
- Monitoring siren system during weekly tests
- Collaborating with Carnation officials and King County Emergency Management



Community Feedback & Key Insights

1. Additional signage to support evacuation
2. Warning system accessibility and reliability
3. Flexible siren tone and verbal message
4. System improvements as quickly as possible
5. Emergency preparedness

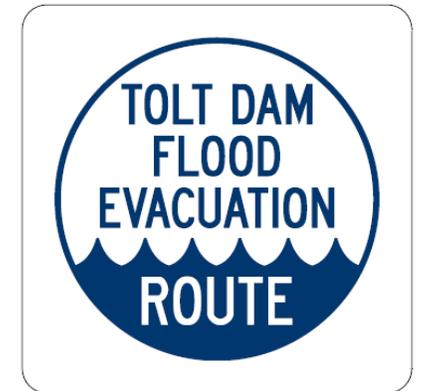
Current siren



New siren



New signs



King County Emergency Management

Jared Schneider

*Emergency Management
Program Manager – Hazard
Mitigation*

*jaschneider@kingcounty.gov
206-205-4027*

Lisa Sargent

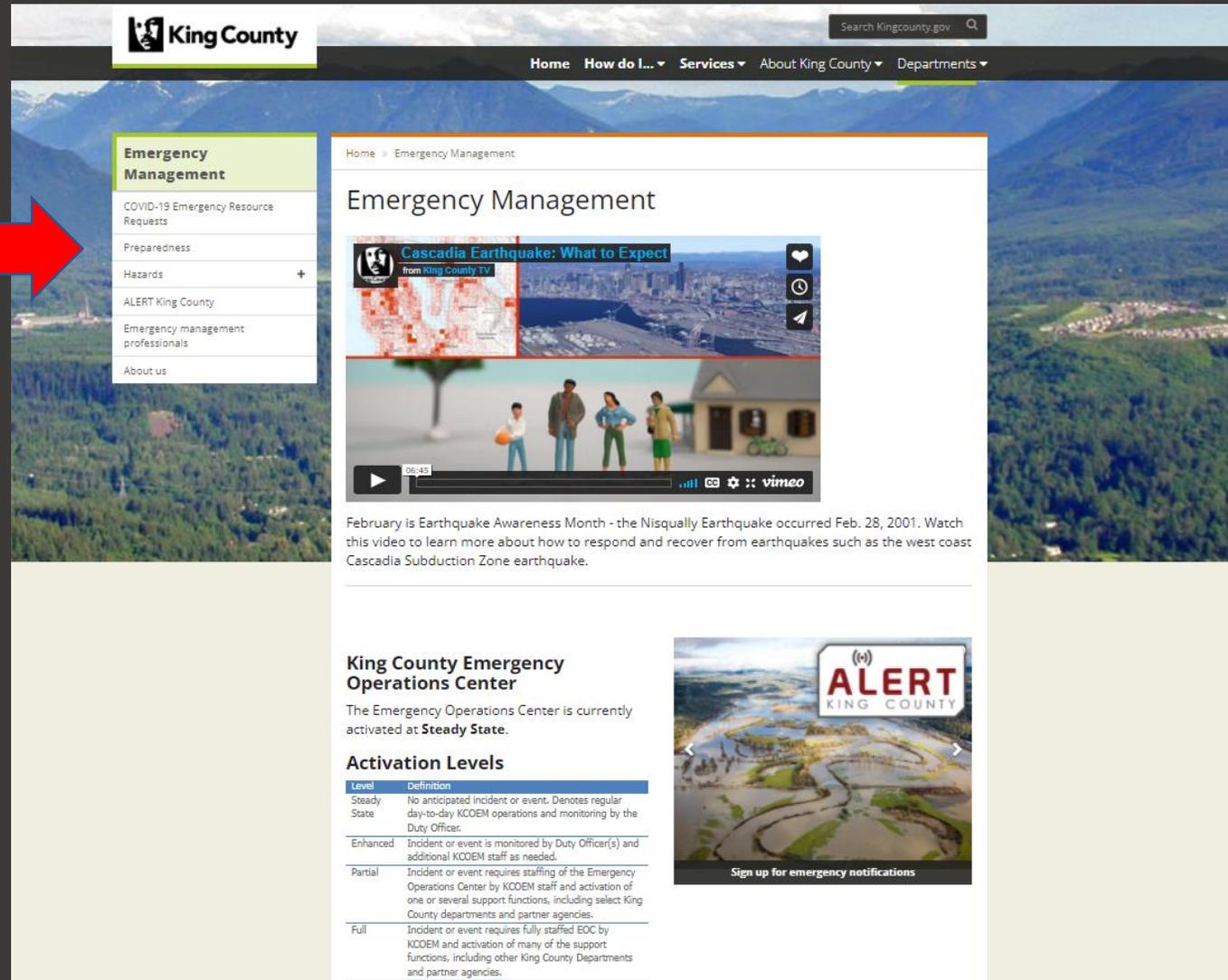
AmeriCorps Fellow



- **GET A KIT.** Gather extra supplies for your home, office, vehicle, school, etc. and prepare.
- **MAKE A PLAN.** Know what to do/where to go if you get an alert or hear the sirens.
- **BE INFORMED.** Sign up for ALERT King County.



WWW.KINGCOUNTY.GOV/PREPARE
Click on "Preparedness" on the left-hand side



The screenshot shows the King County website's Emergency Management page. On the left, a navigation menu is visible with the following items: Emergency Management (highlighted), COVID-19 Emergency Resource Requests, Preparedness (indicated by a red arrow), Hazards (+), ALERT King County, Emergency management professionals, and About us. The main content area features a video titled "Cascadia Earthquake: What to Expect" from King County TV. Below the video, text states: "February is Earthquake Awareness Month - the Nisqually Earthquake occurred Feb. 28, 2001. Watch this video to learn more about how to respond and recover from earthquakes such as the west coast Cascadia Subduction Zone earthquake." Further down, there is a section for the "King County Emergency Operations Center" which is currently activated at "Steady State". This section includes a table of "Activation Levels" and a "Sign up for emergency notifications" button.

King County

Home How do I... Services About King County Departments

Search Kingcounty.gov

Emergency Management

COVID-19 Emergency Resource Requests

Preparedness

Hazards +

ALERT King County

Emergency management professionals

About us

Home » Emergency Management

Emergency Management

Cascadia Earthquake: What to Expect
from King County TV

February is Earthquake Awareness Month - the Nisqually Earthquake occurred Feb. 28, 2001. Watch this video to learn more about how to respond and recover from earthquakes such as the west coast Cascadia Subduction Zone earthquake.

King County Emergency Operations Center

The Emergency Operations Center is currently activated at **Steady State**.

Activation Levels

Level	Definition
Steady State	No anticipated incident or event. Denotes regular day-to-day KCOEM operations and monitoring by the Duty Officer.
Enhanced	Incident or event is monitored by Duty Officer(s) and additional KCOEM staff as needed.
Partial	Incident or event requires staffing of the Emergency Operations Center by KCOEM staff and activation of one or several support functions, including select King County departments and partner agencies.
Full	Incident or event requires fully staffed EOC by KCOEM and activation of many of the support functions, including other King County Departments and partner agencies.

ALERT KING COUNTY

Sign up for emergency notifications

King County

WWW.MAKEITTHROUGH.ORG

→ ↻ 🏠 🔒 https://makeitthrough.org 🔍 ⭐ ⚙️ 🗄️

MAKET THROUGH

HOME INDIVIDUALS BUSINESSES SCHOOLS COMMUNITY ORGANIZATIONS TRANSLATED MATERIALS f 🐦

Select Language ▼

YOUR WORK

DISASTERS HAPPEN

IT'S NOT A MATTER OF IF, BUT WHEN.
At some point, you will face a significant emergency or disaster situation.
Will you be ready to make it through and eventually return to some sense of normal?


King County

WWW.HAZARDREADY.ORG

hazardready.org

HAZARD READY

Disaster preparedness tools

Hazard Ready websites help you find out about your natural hazard risks and steps you can take to prepare.

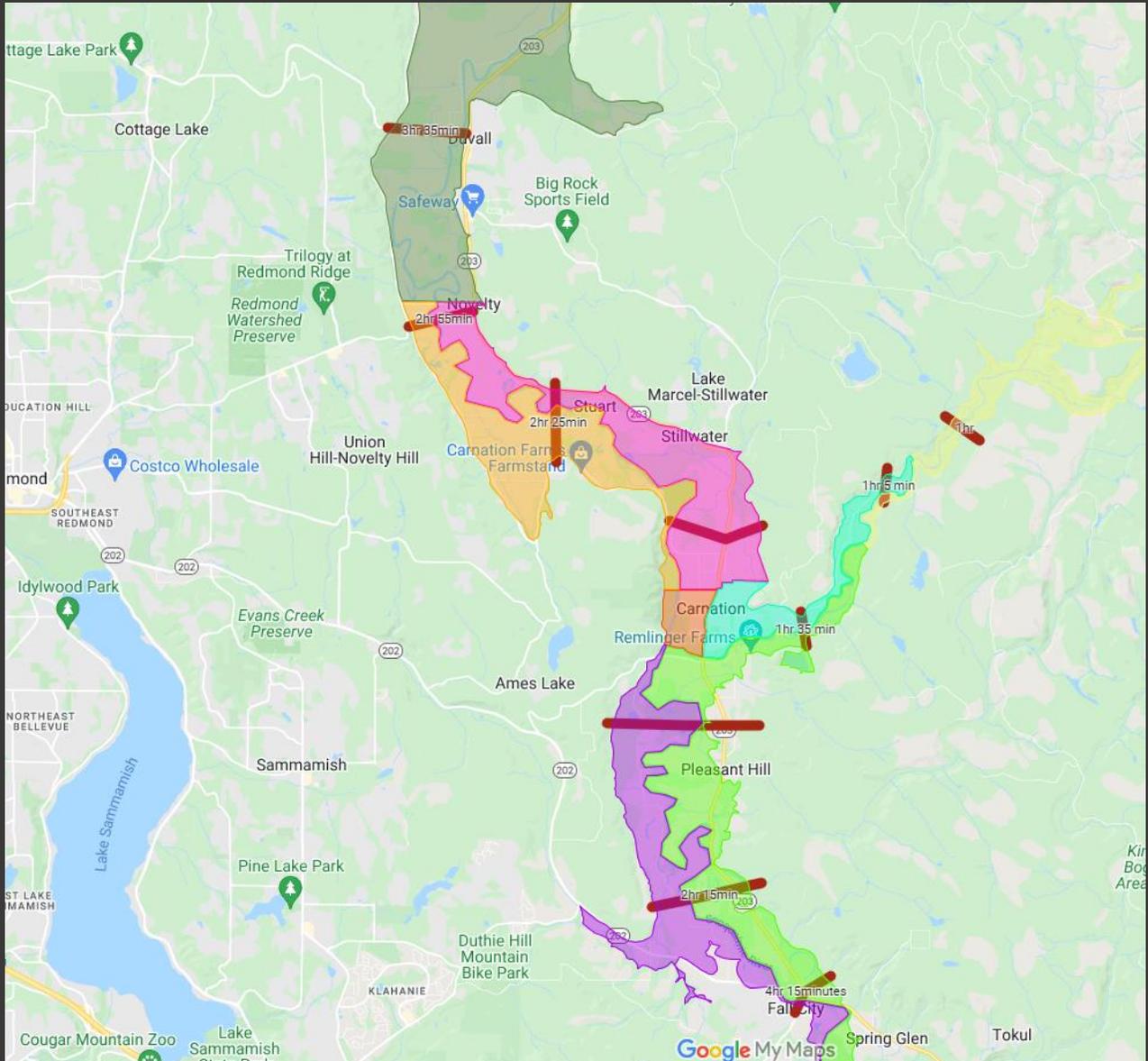
Current Locations

Hazard Ready currently has websites that cover the following areas in the United States. If you'd like to have a Hazard Ready site for your part of the world, please [contact us](#). We'd love to work with you!

- Missoula County, MT**
MISSOULA READY!
A disaster preparedness website
- King County, WA**
SEATTLE AND KING COUNTY READY
A disaster preparedness website
- Portland, OR Metro Area**
PDJ READY
Natural disasters can strike at any time.

South Fork Tolt Dam – Inundation Map

- kingcounty.gov/dams
- Click on **Dam Inundation Areas**
- Click on the small square in the grey header to enlarge the inundation map
- Zoom in





Get notified by:

- Text
- Call
- Email

Sign up at:

www.kingcounty.gov/alert

or

Text "ALERTKCC" to 99441

or

Follow the QR code



King County

To sign up for alerts: WWW.KINGCOUNTY.GOV/ALERT

The screenshot shows the 'ALERT King County' website. At the top left is the King County logo. A navigation bar includes 'Home', 'How do I...', 'Services', 'About King County', and 'Departments'. A search bar is located at the top right. On the left side, there is a sidebar menu under 'Emergency Management' with options: 'COVID-19 Emergency Resource Requests', 'Preparedness', 'Hazards', 'ALERT King County' (highlighted), 'Emergency management professionals', and 'About us'. The main content area features the heading 'ALERT King County' and the subtitle 'Regional public information and notification service'. Below this, a paragraph states: 'ALERT King County is a regional public information and notification service offered by King County Emergency Management. ALERT King County helps you stay informed about potential hazards and threats that impact your area.' To the right of this text is the 'ALERT KING COUNTY' logo. A subsequent paragraph reads: 'Register your physical address(es), email address(es), and phone number(s) to receive important safety information during an emergency. Sign-up is free.' At the bottom of the main content area, there is a note: 'CodeRED, the technology engine powering ALERT King County, works best in a desktop browser. Contact ecc.kc@kingcounty.gov if you experience technical difficulties.' At the bottom of the page, there are three buttons: 'Subscribe to ALERT King County' (highlighted with a red box and a red arrow pointing to it), 'Modify subscription (for existing accounts)', and 'Unsubscribe from ALERT King County'. The King County logo is also present in the bottom right corner of the page.

- **GET A KIT.** Gather extra supplies for your home (or anywhere else you spend time) and prepare.
www.kingcounty.gov/prepare
www.makeitthrough.org
www.hazardready.org
- **MAKE A PLAN.** Know what to do/where to go if you get an alert or hear the sirens. See websites above and
www.kingcounty.gov/dams
- **BE INFORMED.** Sign up for ALERT King County.
www.kingcounty.gov/alert
or text “ALERTKC” to 99441



Questions?

An aerial photograph of a residential street that has been completely flooded. The water is murky and reflects the surrounding trees and sky. In the center of the flooded street, there is a construction barrier consisting of several orange traffic cones connected by yellow caution tape. A white and orange striped barrier is also visible. In the far distance, a person wearing a red jacket and a dark hat is walking away from the camera on the flooded street. The surrounding area is filled with trees, some of which are bare, suggesting a cooler season.

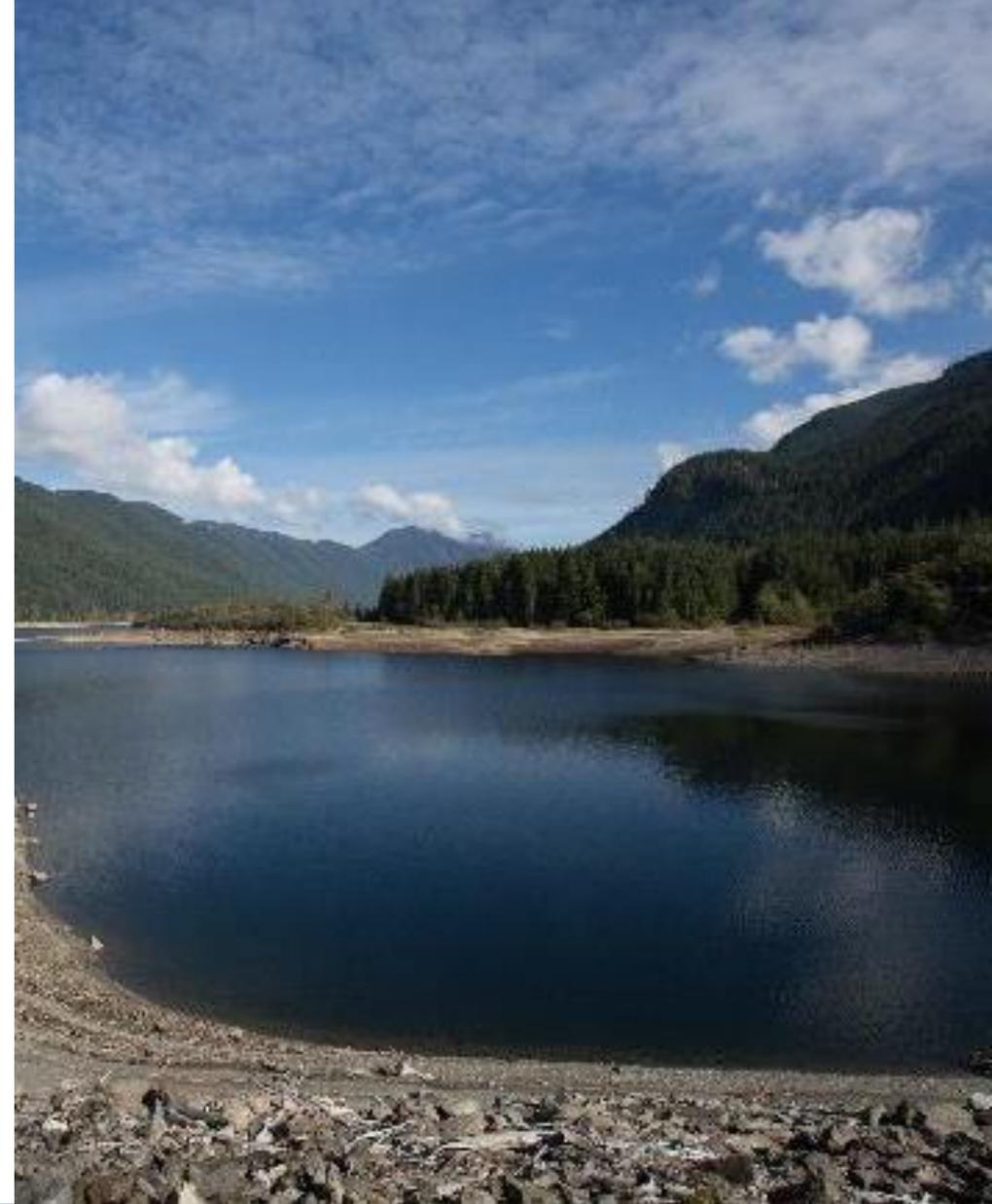
kingcounty.gov/dams

jaschneider@kingcounty.gov

206-205-4027

Project Goals

- Replace and improve outdated siren and system components
- Add redundancy, resiliency, and reliability
- Add digital highway message signs and static evacuation route signs
- Listen and respond to community needs and suggestions





We are here



Engagement and collaboration



Siren replacement project



Other project components*



*Digital highway message and static evacuation signs, additional sirens, microwave link and data network improvements





Siren and Signage improvements

- Replacing 4 outdoor sirens and 4 indoor
- Moving one outdoor siren
- Adding one siren in east Carnation
- End of 2022
 - 2 outdoor sirens, 8 digital message signs
 - Static evacuation route signs along evacuation routes
- Adding 2 language alert voice messages and tones



New siren



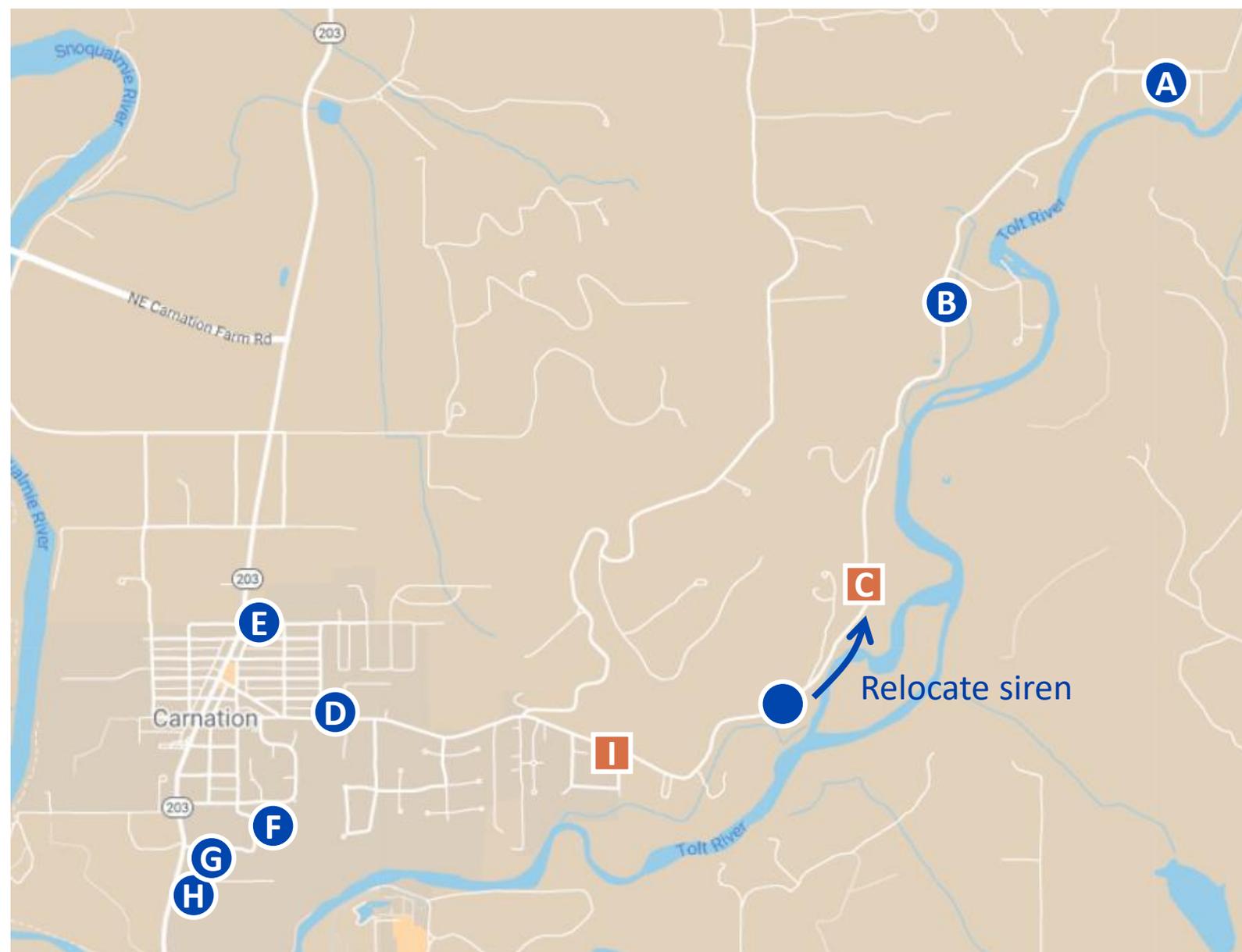
Strobe Lights

- Non-blinding light
- Indicate the siren is activated

Recap

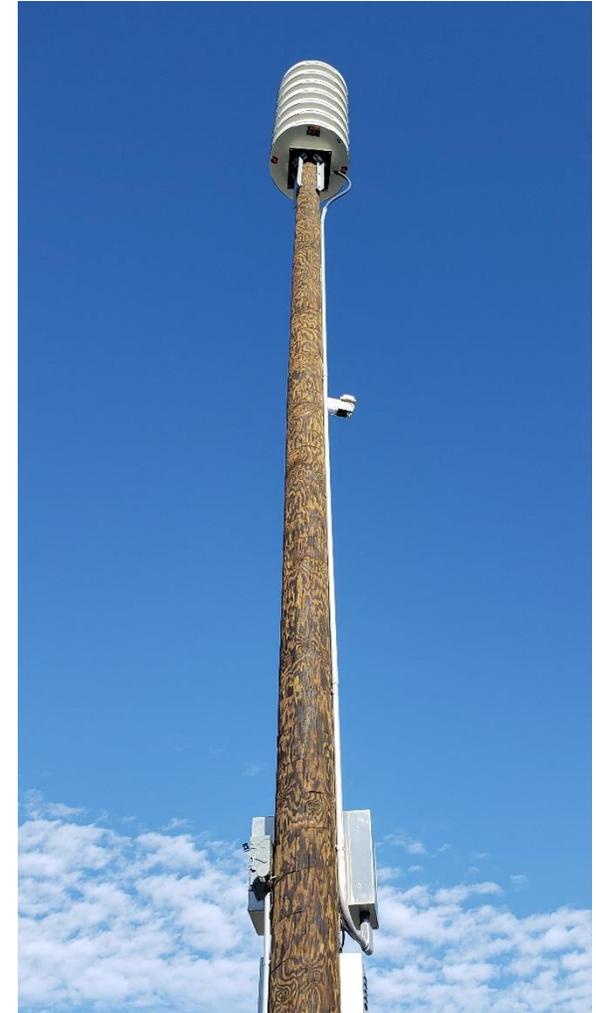
Siren Locations

- Existing Sirens
- New Siren
 - NE Tolt River Road and 334th Ave NE
- Siren "C" will move northeast along the Tolt River Road.



Alert Tones and Languages

- Voice with tone
 - English
 - Spanish (U.S. Census - >10% of population)
- Tone alerts
 - Test tone
 - Evacuate tone





Questions?



Sign Examples

Digital highway message sign example

- Tells people to evacuate in a dam break
- Brief, large text for drivers
- Pre-programmable



Static evacuation sign example

- Marks evacuation route
- Not digital or programmable



Digital Message Sign Locations

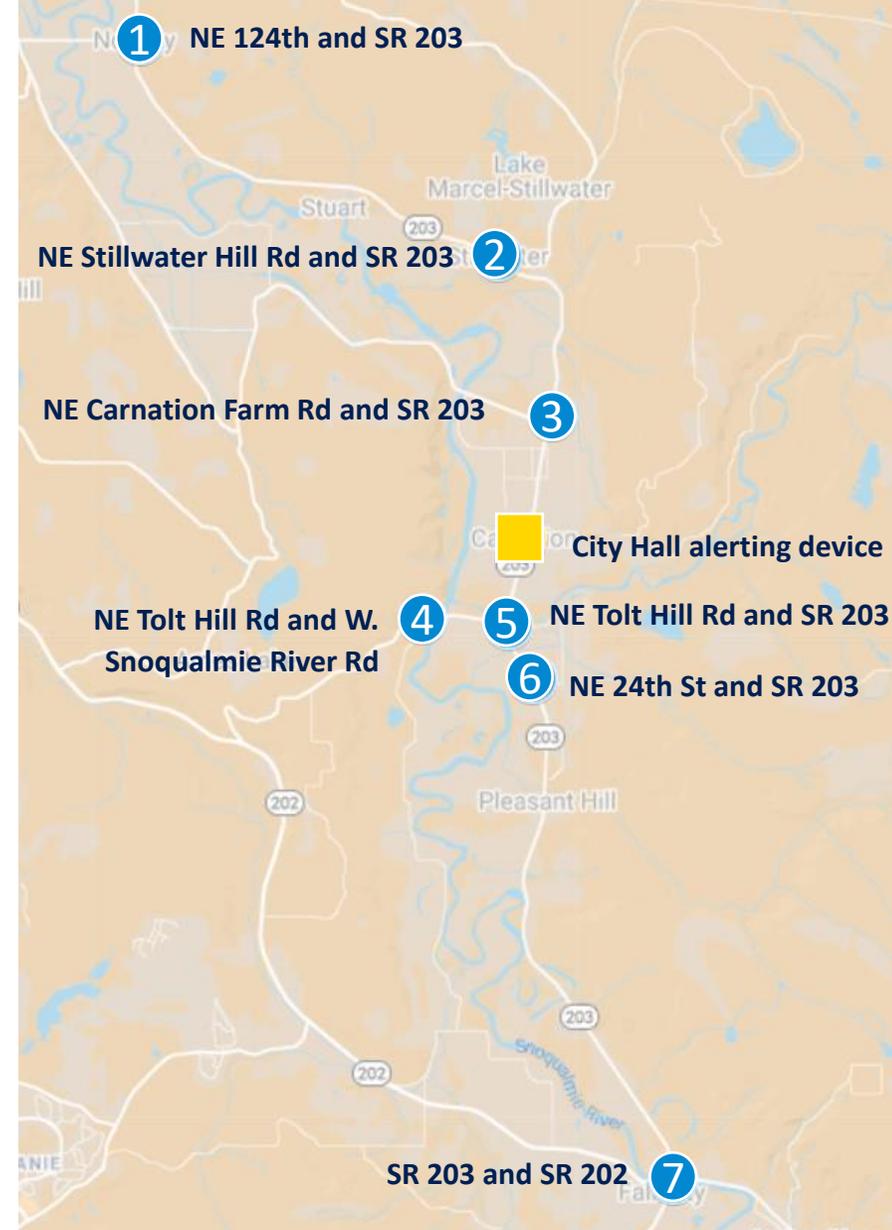


New Digital Sign

1. NE 124th and SR 203
2. NE Stillwater Hill Rd and SR 203
3. NE Carnation Farm Rd and SR203
4. NE Tolt Hill Road and W. Snoqualmie River Rd
5. NE Tolt Hill Road and SR203
6. NE 24th St and SR 203
7. SR 202 and SR 203

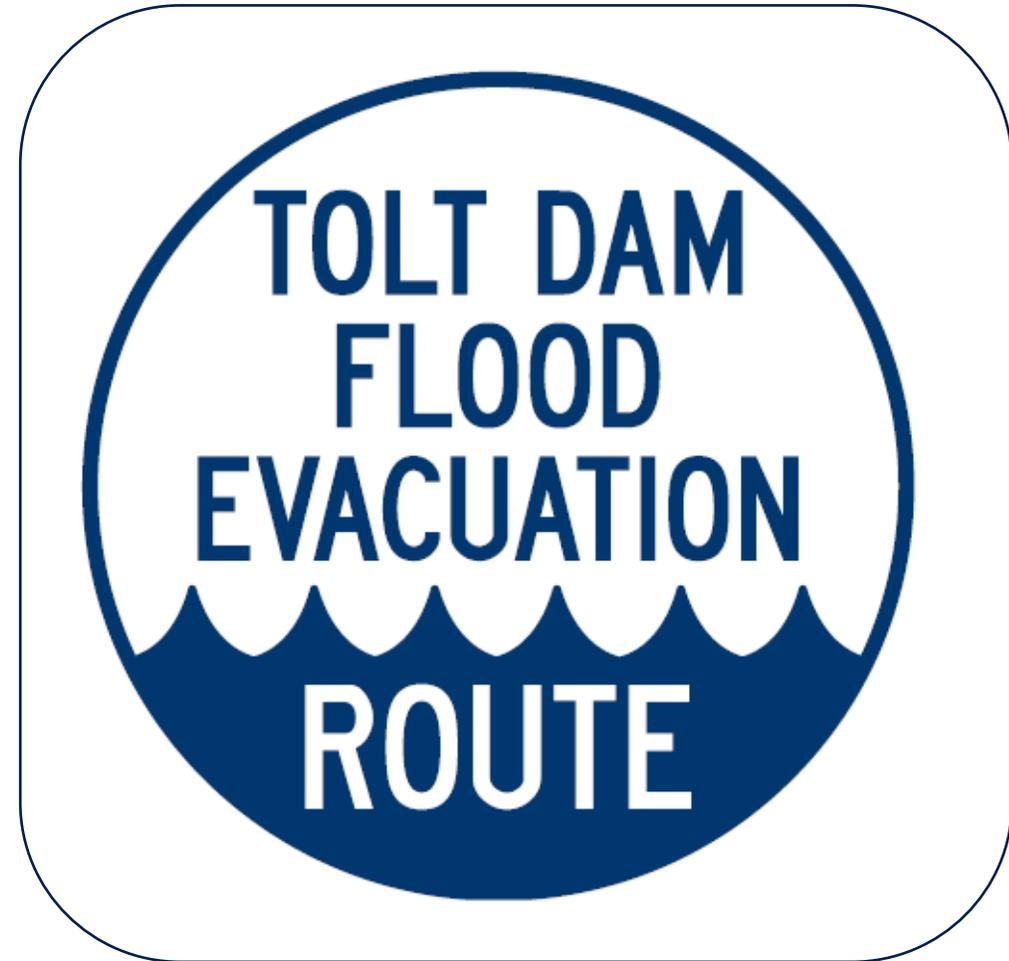


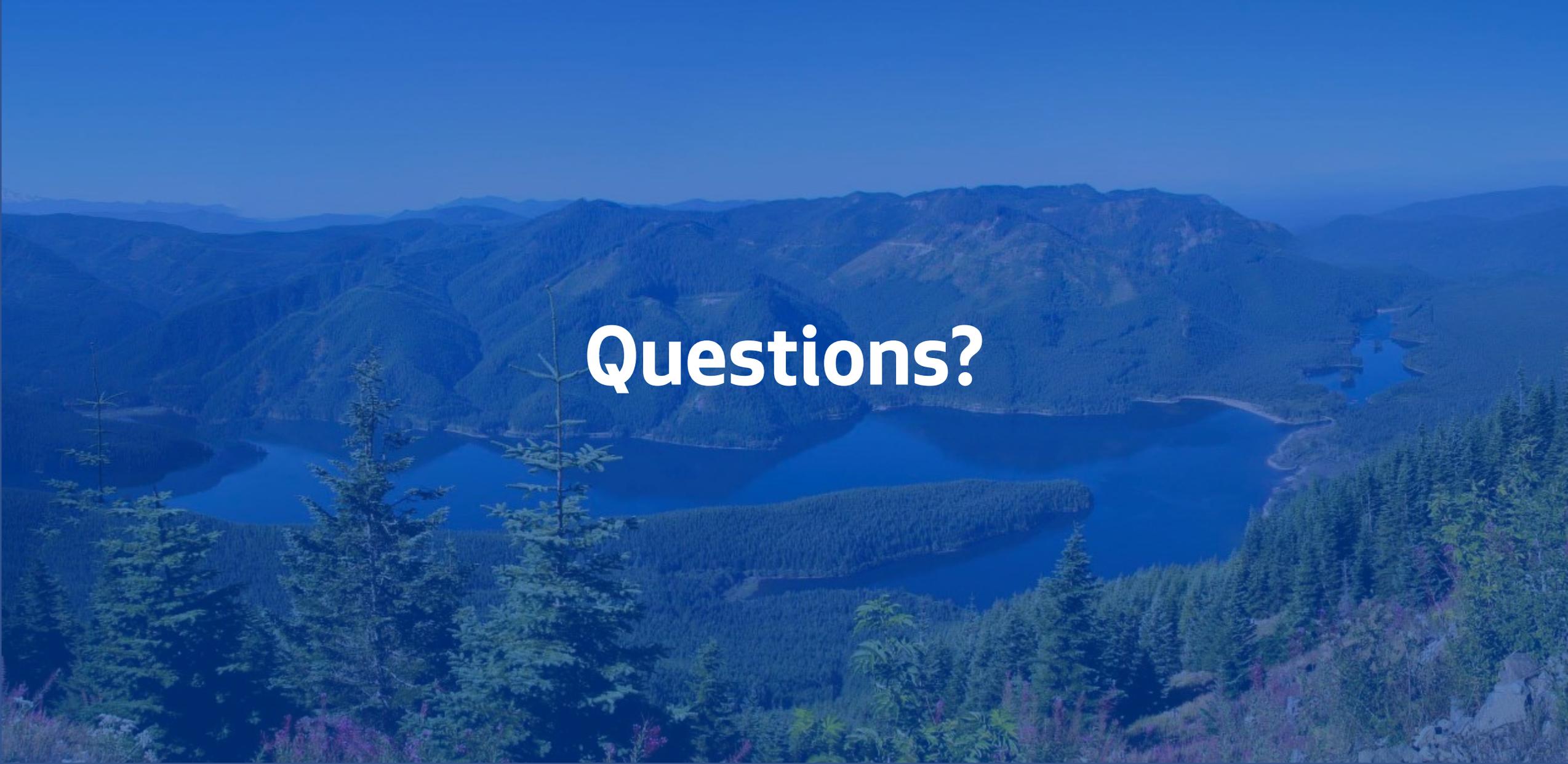
New City Hall Alerting Device



Static Message Signs

- Adding 70 signs
- Locations set in coordination with WSDOT, Cities of Carnation and Duvall, King County Roads
- Signs are part of King County Evacuation Plan and along designated evacuation routes





Questions?



What to Expect: Construction in May

- Similar to other utility pole work
- Possibly some evening and weekend work
- Existing siren systems will still work during construction
- Old system removed after new system installed and operating
- 5 outdoor and 4 indoor siren sites



What to Expect: Testing the New Sirens

- Planning testing and commissioning
- Following construction, alert testing will occur in June
- Testing will be between 8am and 5pm
- Audio preview



How You Will Be Notified

- Ways that we'll keep you informed
 - SPU Project Website
 - City of Carnation website
 - City of Carnation's Social Media
 - Mailer
 - Email
- Sign up for project updates:
 - seattle.gov/utilities/toltsirenproject
- **We want to hear from you!**



Next Steps

- Advance design for the second phase, other project components
- Procure static evacuation signs
- Continue updating community



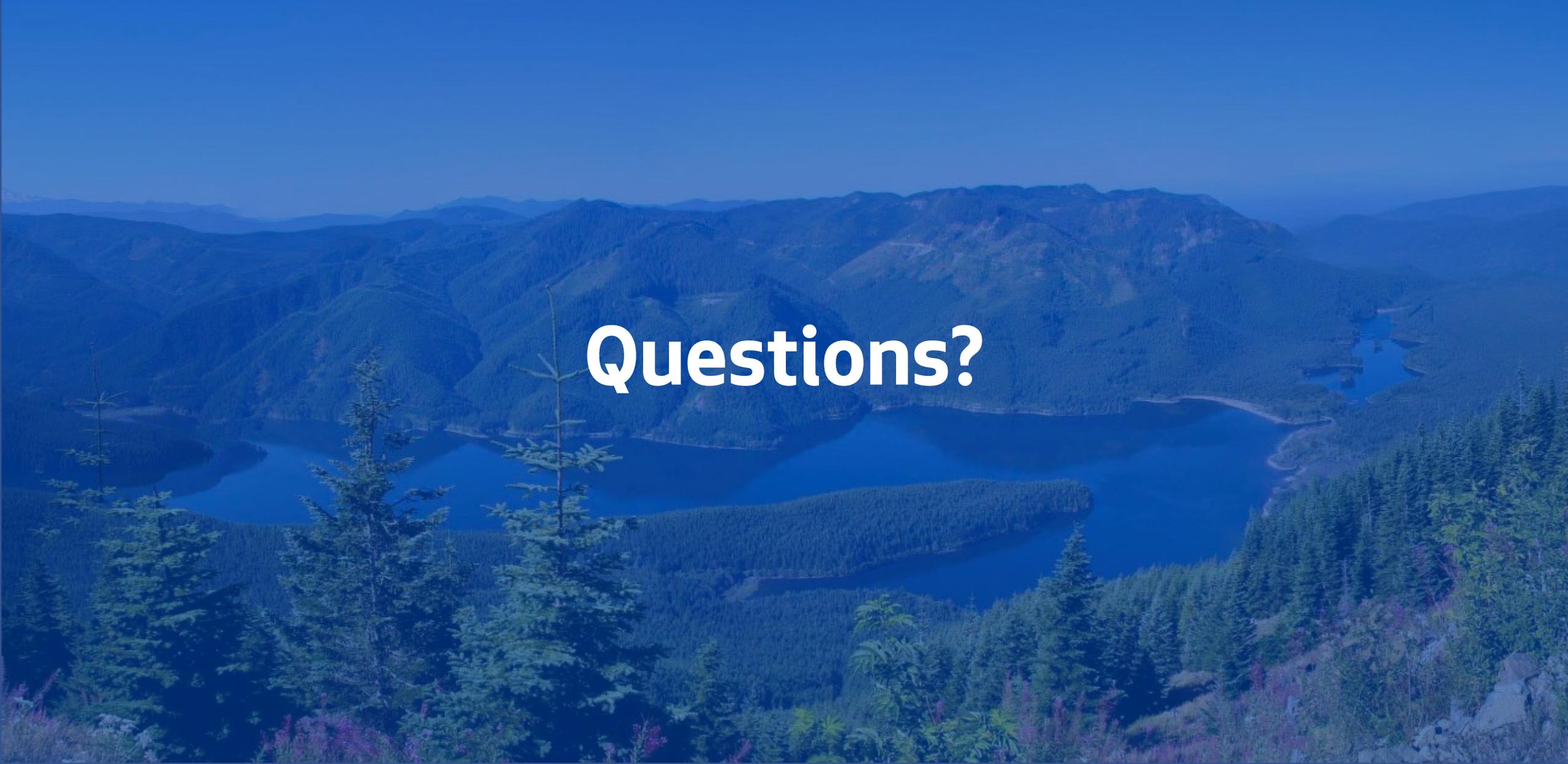
Stay Connected

- Project website: seattle.gov/utilities/toltsirenproject
- ALERT King County: kingcounty.gov/alert
- Tolt inundation area map: kingcounty.gov/dams
- Josh Campbell, SPU Project Manager

Josh.Campbell@seattle.gov

(206) 684-5257





Questions?

