



**Study Session**

**SS**

**Milwaukie City Council**

**COUNCIL STUDY SESSION**

Zoom Video Conference  
www.milwaukieoregon.gov

**AGENDA**

DECEMBER 14, 2021

**Council will hold this meeting through video conference.** The public may attend the meeting by joining the Zoom webinar. **Written comments** may be submitted by email to [ocr@milwaukieoregon.gov](mailto:ocr@milwaukieoregon.gov). Council may take limited verbal comments. **For Zoom webinar login information** visit <https://www.milwaukieoregon.gov/citycouncil/city-council-study-session-124>.

**This meeting will not be broadcast live or recorded.**

**Note:** agenda item times are estimates and are subject to change.

**Page #**

- 1. Clackamas County Water Environment Services (WES) – Update (5:15 p.m.)** **1**  
Presenter: Greg Geist, WES Director,  
Ron Wierenga, WES Environment Services Manager, and  
Chris Storey, WES Assistant Director
- 2. Adjourn (6:45 p.m.)**

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**Executive Sessions**

The City Council may meet in executive session pursuant to Oregon Revised Statute (ORS) 192.660(2); all discussions are confidential; news media representatives may attend but may not disclose any information discussed. Final decisions and actions may not be taken in executive sessions.



## COUNCIL STUDY SESSION

Zoom Video Conference  
www.milwaukieoregon.gov

## MINUTES

DECEMBER 14, 2021

**Council Present:** Councilors Lisa Batey, Angel Falconer, Desi Nicodemus, Council President Kathy Hyzy, and Mayor Mark Gamba

**Staff Present:** Ann Ober, City Manager  
Peter Passarelli, Public Works Director

Scott Stauffer, City Recorder

**Mayor Gamba** called the meeting to order at 5:17 p.m.

### 1. Clackamas County Water Environment Services (WES) - Update

**Greg Geist**, WES Director, provided an update on WES operations, including facility upgrades and projects at the Kellogg Creek Water Resource Recovery Facility.

**Ron Wierenga**, WES Environment Services Manager, discussed WES' previous, ongoing, and planned work at the Three-Creeks Natural Area, which involved a multi-agency effort to restore the Phillips, Mt. Scott, and Dean creeks and was expected to be designed by 2023 and in construction by 2024. **Mayor Gamba** and **Wierenga** remarked on the plan to fill the existing creek beds with rock and logs to broaden the drainage area and the group commented on the impact of high-water events on the region.

**Councilor Batey** asked if the existing flood control infrastructure at the natural area had to be operated by WES staff to work. **Wierenga** explained that the flood gates were not manual but were monitored by WES staff. **Batey** and **Wierenga** noted that the restoration work would create a new wetland area.

**Council President Hyzy** and **Wierenga** observed that the creek filler material would need to be replenished periodically. They remarked on the to-be-developed plans to ensure that the public could access the natural area via paths and access points.

The group acknowledged the presence of, and concerns about, houseless individuals who passed through and lived at the natural area. **Wierenga**, WES Natural Resources Scientist **Gail Shaloum**, and **Ober** commented on the multi-agency response to monitoring and supporting the transient camper population on the site. They noted that other groups and schools had used the site with WES permission.

**Mayor Gamba**, **Councilor Batey**, and **Geist** commented on the possibility of the city's Arts Committee working with WES to commission a mural at the Kellogg Creek facility.

**Chris Storey**, WES Assistant Director, provided an overview of WES' plan to enhance regional partnerships to address inflow and infiltration (I&I) issues by developing new intergovernmental agreements (IGAs) that would provide grant funding to agencies, like the city, for I&I projects. **Ober** reported that the city had been in discussions with WES to develop such an IGA between WES and Milwaukie.

**Councilor Batey** asked if the city could use existing equipment to address I&I issues stemming from down spout connections. **Passarelli** reported that staff had not evaluated the use of equipment to address I&I issues yet but would do so as part of the wastewater master plan update process. **Storey** suggested that WES' grant program was designed to support cities' planning to get I&I projects funded and done.

**Councilor Batey** asked if there was anyway to tell which era of home construction used the best type of pipe. **Geist** believed there were ways to tell how well a pipe would hold up and that WES' grant program would save WES and cities money on maintaining infrastructure. **Passarelli** and **Geist** agreed that the older the pipe the worse condition it was likely to be in and **Storey** noted that a pipe replacement project would be eligible to receive WES I&I grant funding.

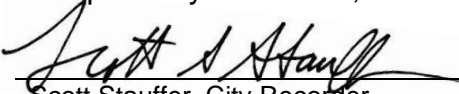
**Ober** and **Passarelli** suggested Council would see a proposed IGA with WES for the I&I grant program on a Council meeting agenda soon.

The group acknowledged that Storey would be leaving WES in 2022 and thanked him for his service to the region.

## **2. Adjourn**

**Mayor Gamba** adjourned the meeting at 6:19 p.m.

Respectfully submitted,

  
\_\_\_\_\_  
Scott Stauffer, City Recorder





CLACKAMAS

# WATER ENVIRONMENT SERVICES

**SS 1. 12/14/21**

**GREGORY L. GEIST | DIRECTOR**

Water Quality Protection  
Surface Water Management  
Wastewater Collection & Treatment

## MEMORANDUM

TO: City of Milwaukie City Councilors

FROM: Ron Wierenga, Environmental Services Division Manager, Clackamas Water Environment Services

CC:

DATE: December 7, 2021

SUBJECT: 3-Creeks Natural Area Floodplain Enhancement Project UPDATE

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### 3-CREEKS NATURAL AREA FLOODPLAIN ENHANCEMENT PROJECT

#### Update for Milwaukie City Council

December 2021

Water Environment Services is planning to improve the environmental functions at 3-Creeks Natural Area next to North Clackamas Aquatic Park. The 89-acre natural area is home to beavers, fish, deer, otters, birds and other wildlife.

Three creeks, Mt. Scott, Phillips, and Dean Creeks, converge on the site to form Mt. Scott Creek, making it an important location for surface and stormwater management and natural habitat. Mt. Scott Creek flows to Kellogg Creek and then to the Willamette River. Urbanization is taking a toll on the site, with streams eroding, habitat degrading, and developed properties flooding. This project will enhance the floodplain, improve water quality, improve fish and wildlife habitat, and provide opportunities for pedestrian access and environmental education on the site, where feasible. One way this will be achieved is by allowing the stream to overflow into the floodplain more often.

Several alternative concepts were explored and a preferred concept is being shared with the public in fall 2021. Design work will begin in January.

The main goals of the project are to:

- Improve the water quality of streams
- Allow the streams to overflow onto the floodplain to store more water onsite and provide more seasonal habitat for fish and other aquatic species
- Optimize performance of the existing flood reduction facility to reduce downstream flooding

Serving Clackamas County, Gladstone, Happy Valley, Johnson City, Milwaukie, Oregon City, Rivergrove and West Linn

150 Beaver Creek Road #430, Oregon City, OR 97045 | 503-742-4567 | [clackamas.us/wes](http://clackamas.us/wes)

**SS1**

- Enhance riparian and wetland habitat
- Provide community benefits, such as pedestrian access and environmental education, where practicable

### What we've been hearing from stakeholders

Through an online opportunity for the public to share thoughts about 3-Creeks Natural Area and focused small group discussions, we've heard:

- Support for all project goals
- Concern for any impact to Oregon White Oaks
- Interest in addressing flooding issues further upstream
- Concerns about fish passage
- Community desire for pedestrian access; connection to nature and environmental education opportunities

### Summary of Public Outreach Activities

April 2021

- Website [www.clackamas.us/wes/3-creeks](http://www.clackamas.us/wes/3-creeks)
- SOLV clean-up; signage on site for the project with QR code for web survey

June 2021

- Postcard mailed to ~1600 nearby addresses introducing project and directing to web survey

July 2021 – Shared concepts for feedback

- Presentation to North Clackamas Watersheds Council

October 2021 – Shared preferred concept for feedback

Small group virtual meetings with:

- Clackamas Community College
- Environmental education organizations
- Trackers – youth environmental group (most active use)
- Area businesses: PCC, Bob's Red Mill, others invited
- Sheriff's Office and Clackamas Fire
- Linwood neighbors (small group)
- Agencies: County DTD, ODOT, ODFW
- North Clackamas Watersheds Council Restoration Committee update

November 2021

- Update NCPRD leadership
- #ClackCo Quarterly Article
- The Milwaukie Pilot Article
- Postcard mailed to ~1600 nearby addresses with invitation to December 2 webinar
- Email sent to ~5000 WES subscribers and ~100 emails signed up for project updates

#### December 2021

- December 2 webinar to be held to share the project concept, share maps, hear questions and comment from community before moving into detailed design work

#### Next...

- 2022 – Design, permit applications, and continued community updates
- ~2024 – Construction of floodplain improvements anticipated





CLACKAMAS

WATER  
ENVIRONMENT  
SERVICES

SS 1. 12/14/21  
Presentation

Milwaukie  
December 14, 2021



## THE WES SERVICE AREA INCLUDES:

- Boring
- Fischer's Forest Park
- Gladstone
- Happy Valley
- Hoodland
- Johnson City
- Milwaukie
- Oregon City
- Rivergrove
- West Linn
- Communities in unincorporated Clackamas County



# Kellogg Creek Water Resource Recovery Facility






# New Look: Kellogg Creek Water Resource Recovery Facility


Welcome to  
**Kellogg Creek Park**

Park opens 30 minutes before sunrise  
and closes 30 minutes after sunset


No alcohol




No fireworks




No open fires



Pets must be kept  
on a leash




No Camping




Vehicles left in the park area after closing or in unauthorized  
areas will be towed at the owner's expense without notice.

Clackamas Water Environment Services produces clean water and protects  
water quality. It's our job to ensure that residents and visitors enjoy the  
benefits of safe, healthy water for generations to come.  
[www.clackamas.us/wes](http://www.clackamas.us/wes)



CLACKAMAS  
WATER  
ENVIRONMENT  
SERVICES



THERE IS NO  
**POOP FAIRY**



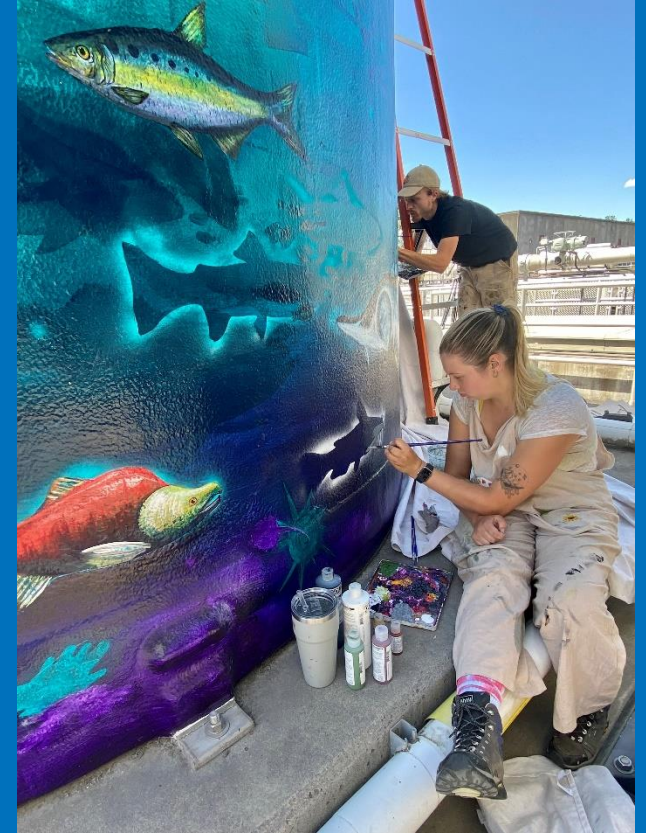
**PLEASE CLEAN UP  
AFTER YOUR PETS!**



CLACKAMAS  
WATER  
ENVIRONMENT  
SERVICES



# Tri-City Water Resource Recovery Facility Solids Handling Improvements Project





# **3-Creeks Natural Area Floodplain Enhancement Project**

**MILWAUKIE CITY COUNCIL  
DECEMBER 14, 2021**





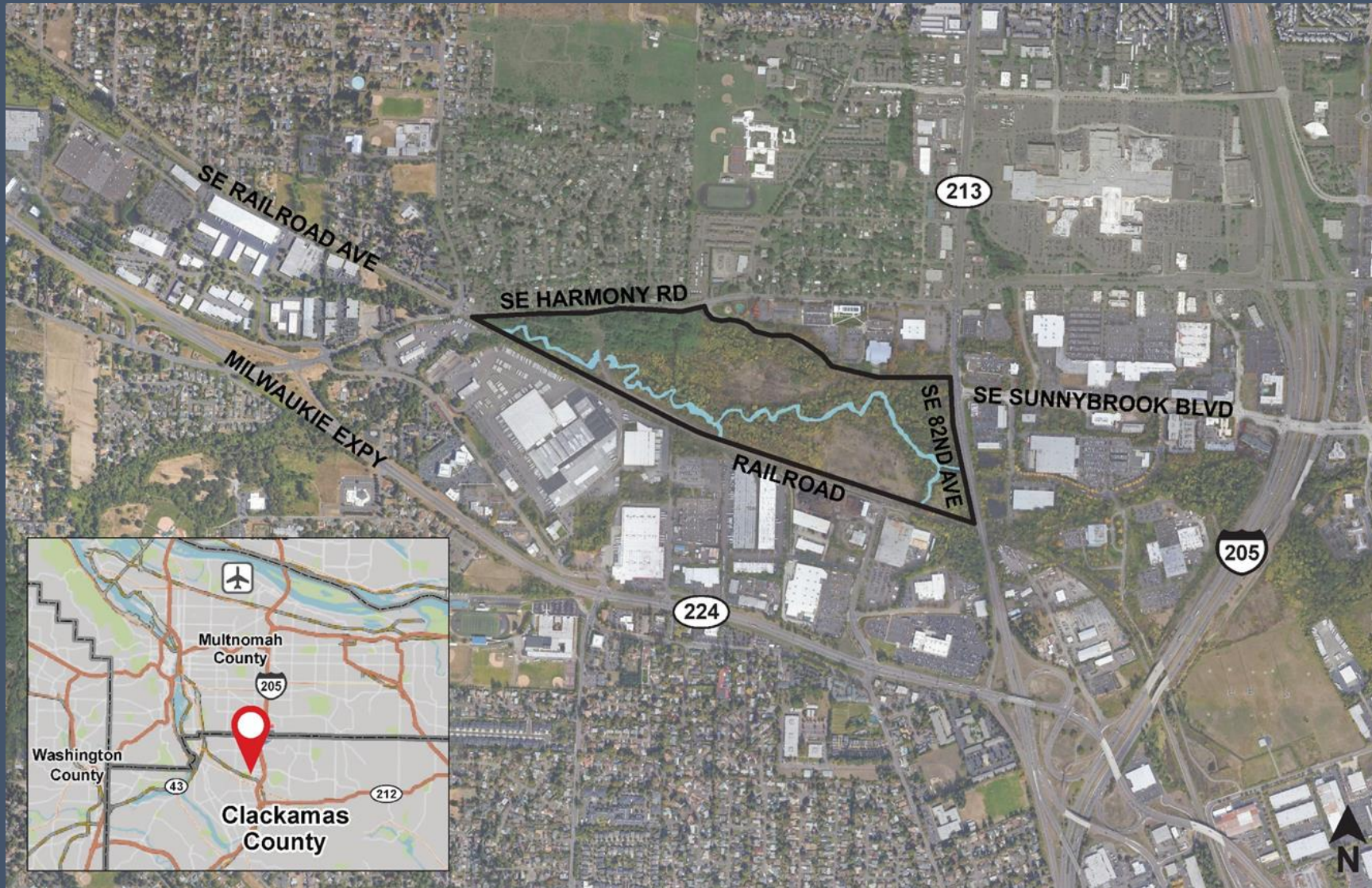
# Agenda

- Project overview
  - Location
  - Project goals
- Project concept for stream and floodplain enhancement
- What we are hearing and what's next
- Hear your questions

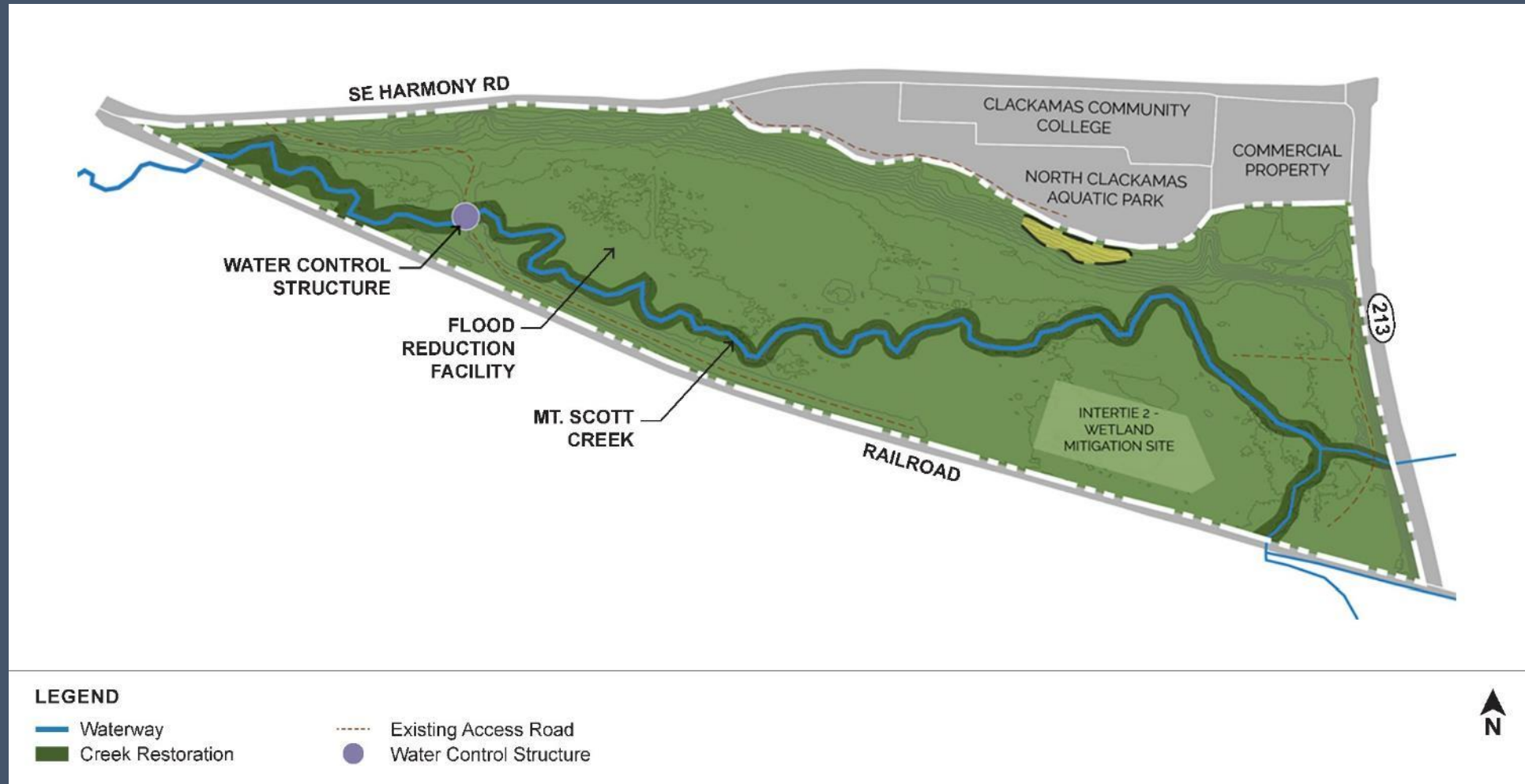




# Our Services and the Unique 3-Creeks Natural Area



# Location of 3-Creeks Natural Area





# Stream and Floodplain Enhancement

## Project Goals

- Water quality
- Stream enhancement
- Downstream flood reduction  
manage flows and store more water onsite
- Habitat





# Stream and Floodplain Enhancement

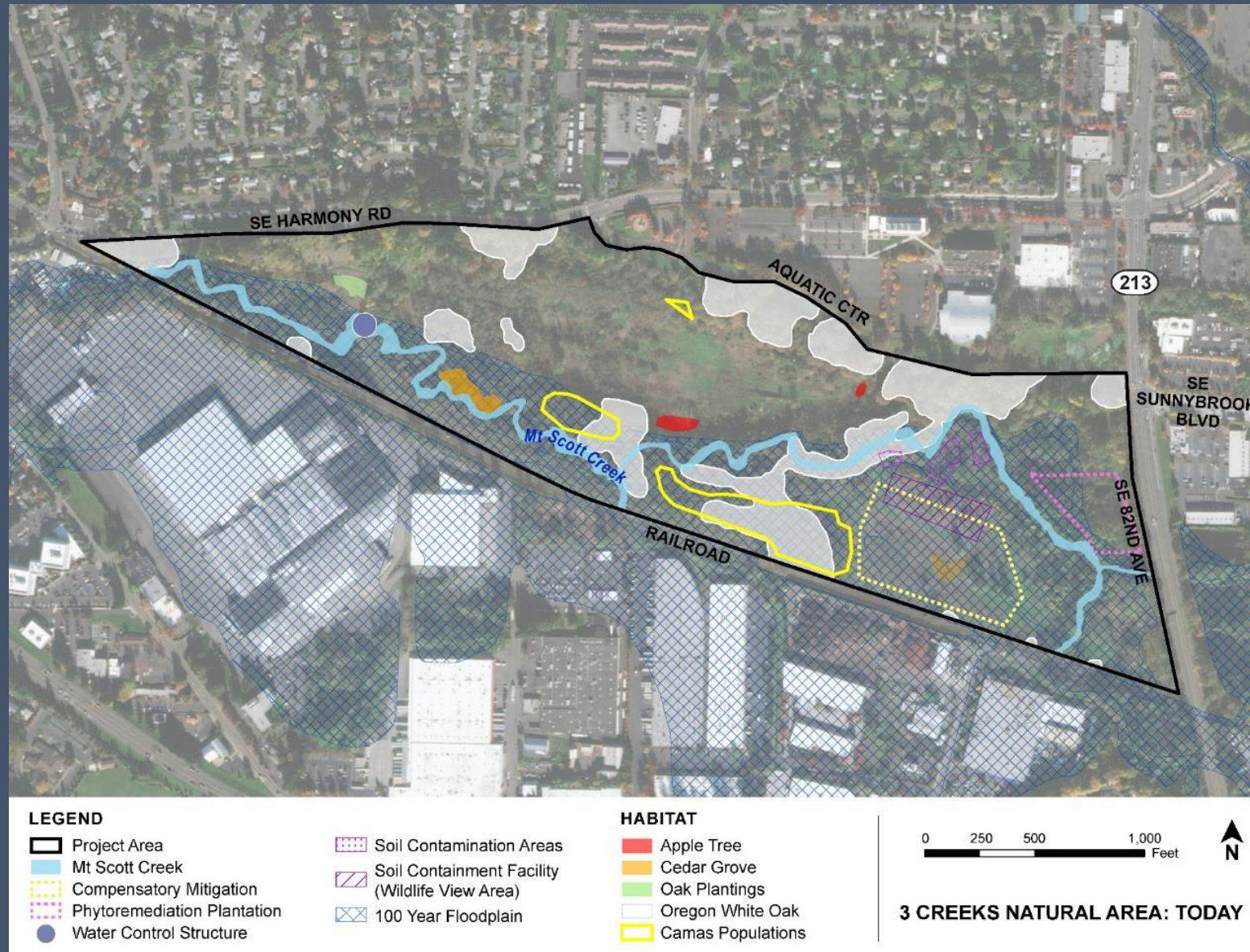
## Other Considerations:

- Protecting and avoiding habitat and other projects
- Water levels during big storms
- Offsite impacts
- Permitting
- Environmental education and access, as feasible



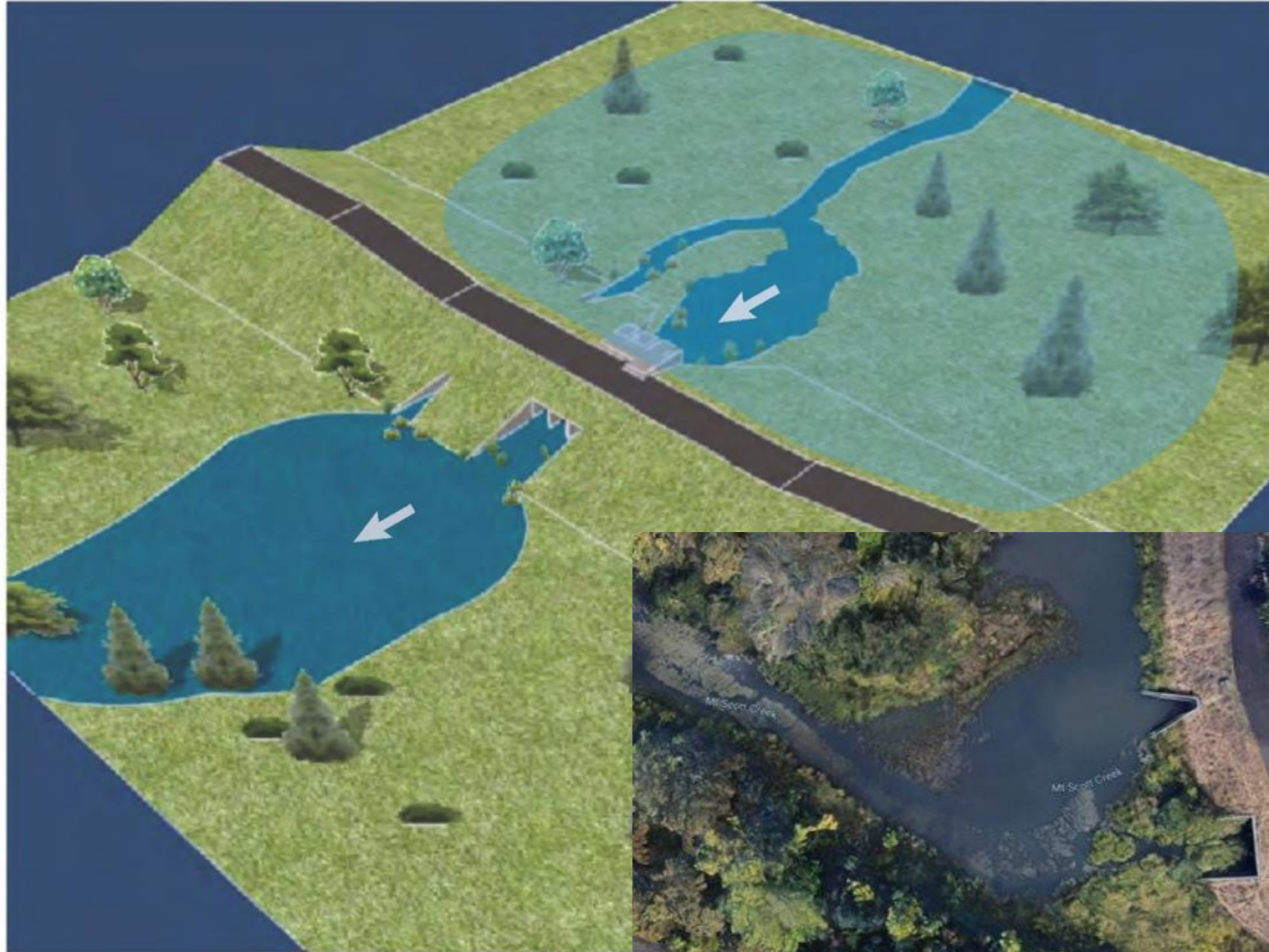


# Features and Constraints





# Existing Water Control Structure





# Where water is stored on site

Flood water storage



## LEGEND

- Project Area
- Flood Reduction Facility
- Water Control Structure
- Mt Scott Creek

## ELEVATION

- 85 ft
- 86 ft



3 CREEKS INUNDATION MAP



# Existing Conditions of Mt. Scott Creek



Deep, eroded stream channel does not allow water to overflow or spill onto the available floodplain



# Project concept: Stream and floodplain enhancement



## LEGEND

Side Channel  
Existing Creek  
Riffle/Pool

Floodplain Grading  
Floodplain Wetland

Tax Lot  
Project Area

0 150 300 600 Feet

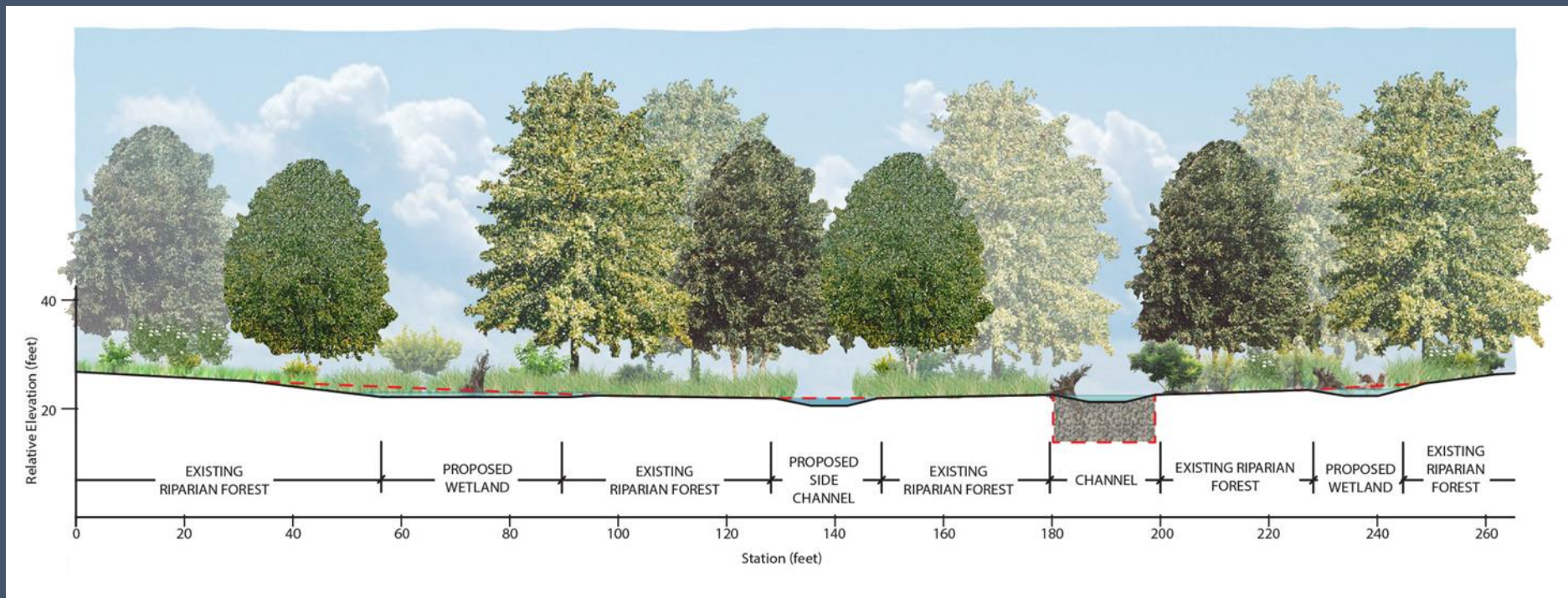


3 CREEKS PLAN VIEW, DECEMBER 2021



# Project concept:

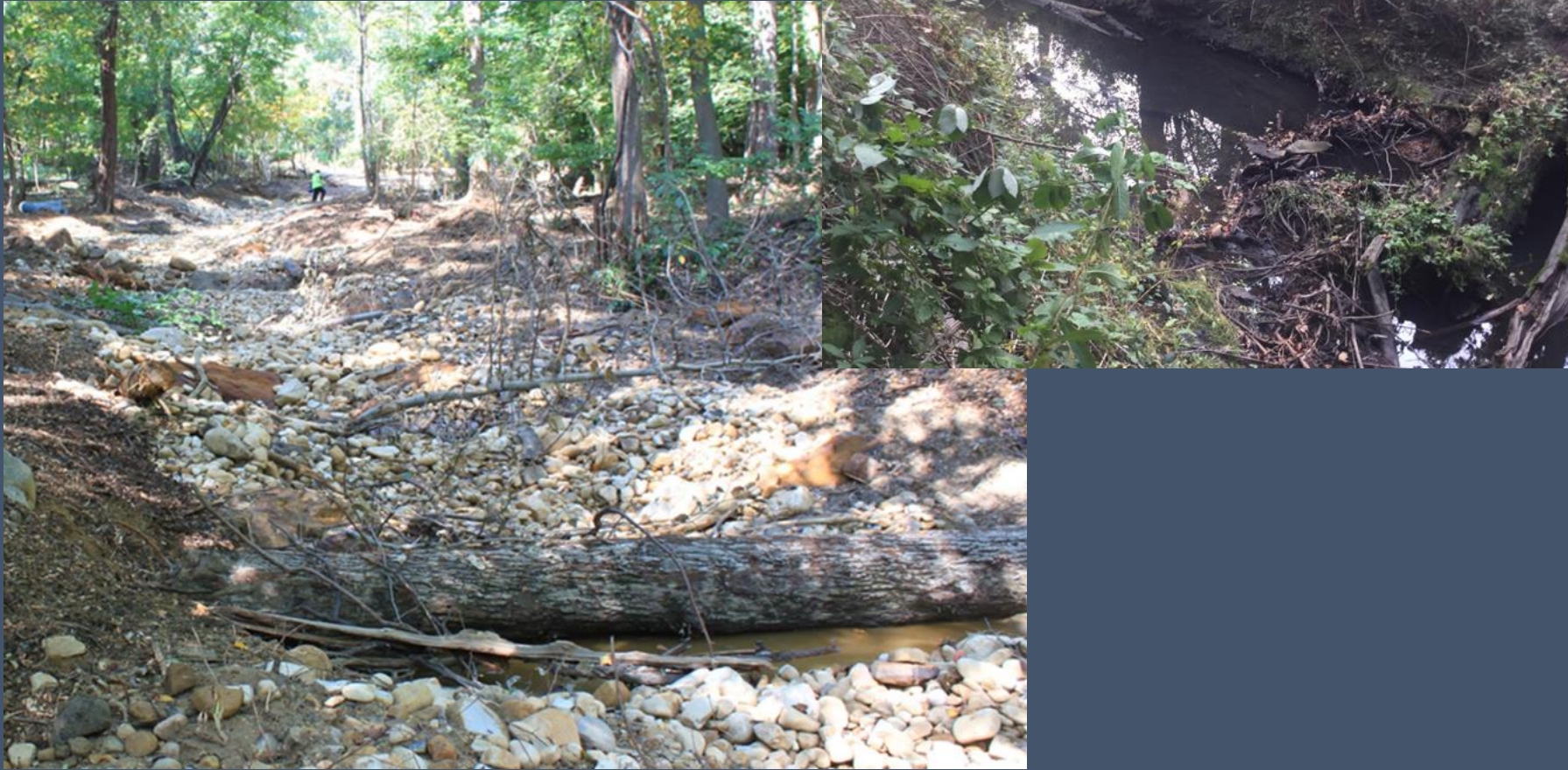
- Raise the stream bed channel
- Connect stream to the land next to it – the floodplain





# Project concept:

Use gravels and other materials to raise stream bed channel





# Project concept:

Use gravels and other materials to raise stream bed channel





# Project Concept:

Replant around stream





# Stream, floodplain, wetland - BEFORE





# Stream, floodplain, wetland - AFTER



# What we're hearing

## Support for:

- Stream health
- Improving water quality
- Increased habitat
- Downstream flood reduction

## Questions and concerns about:

- Avoiding impacts to habitat and fish
- Avoiding Oregon White Oaks
- Upstream flood reduction also
- Temporary construction impacts

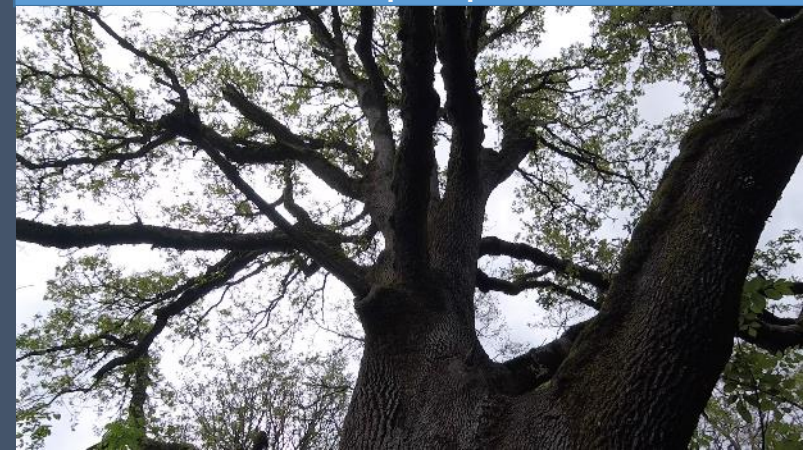


## Online survey

~150 responses

## Small group discussions

~30 people





# What we're hearing

## Desire to keep exploring:

- Opportunities for environmental education & signage
- Opportunities for pedestrian access that limits impacts to habitat
- How to address unauthorized camping and safety





# What happens next?

## Through 2021

- Understand community questions and comments about the concept
- Update Board of County Commissioners

## 2022-2023

- Move forward into design
- Engage community
- Develop detailed designs and construction plans
- Permitting

## 2024

- Construction could begin







# Questions?

Also check out our website  
[www.clackamas.us/wes/3-creeks](http://www.clackamas.us/wes/3-creeks)

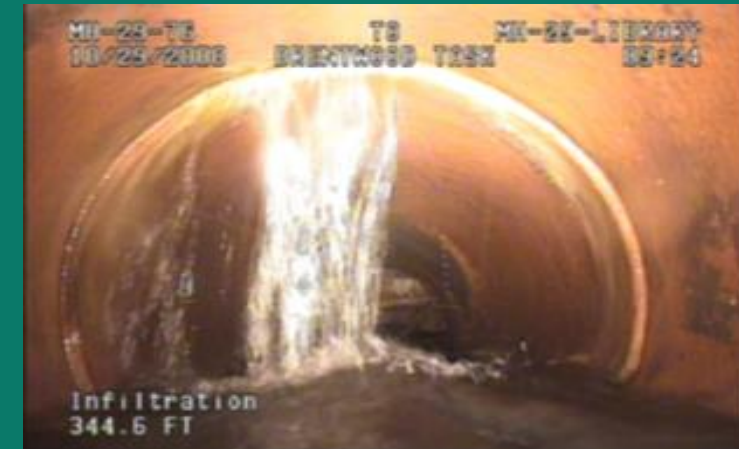
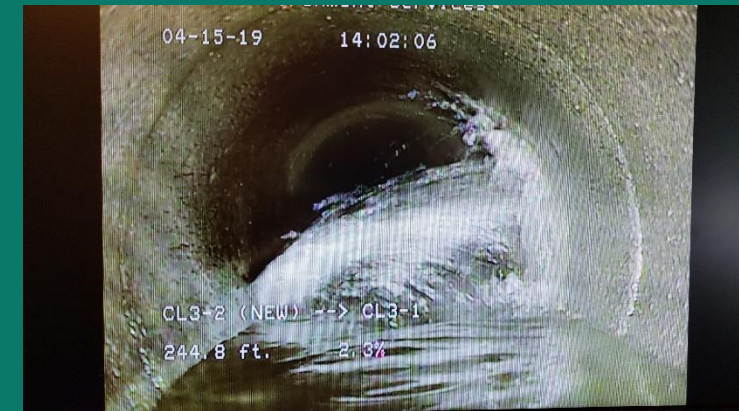
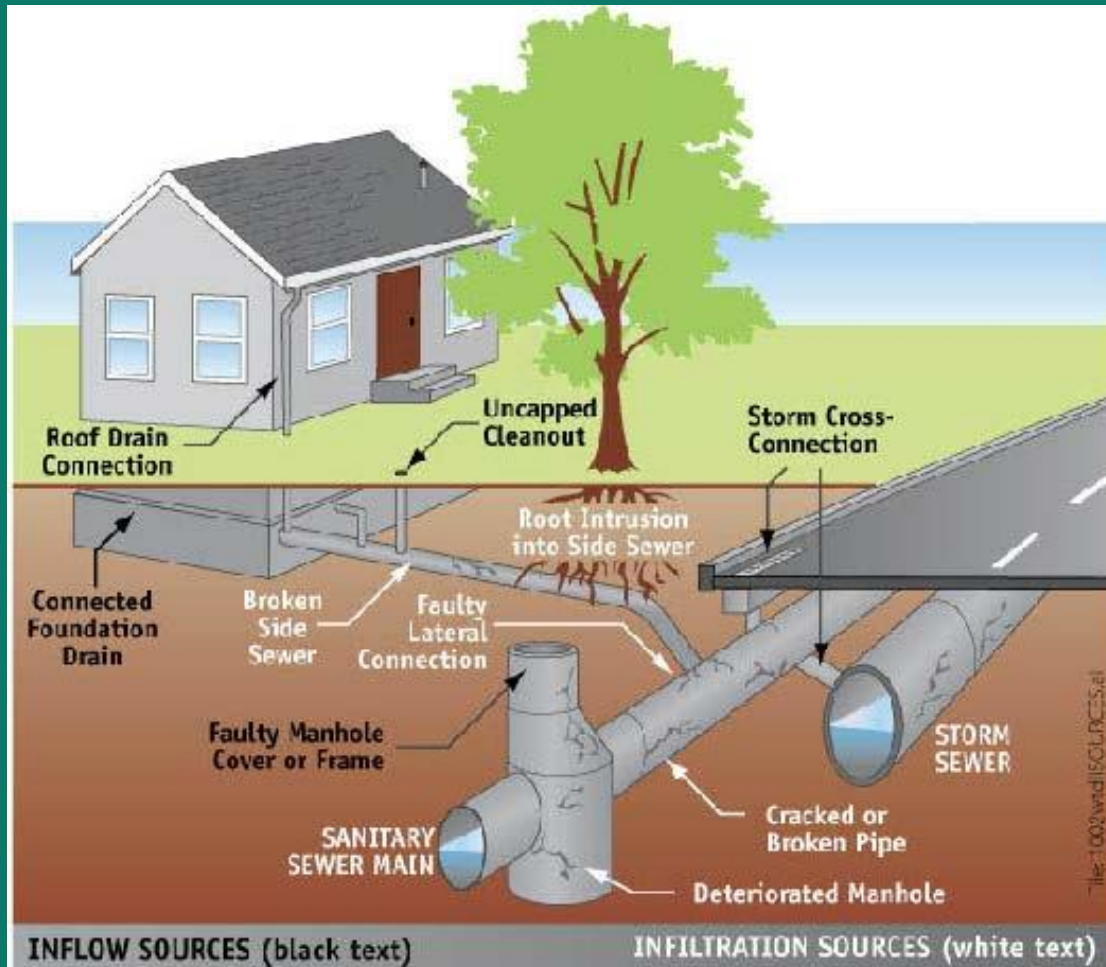


# Inflow and Infiltration Regional Partnership

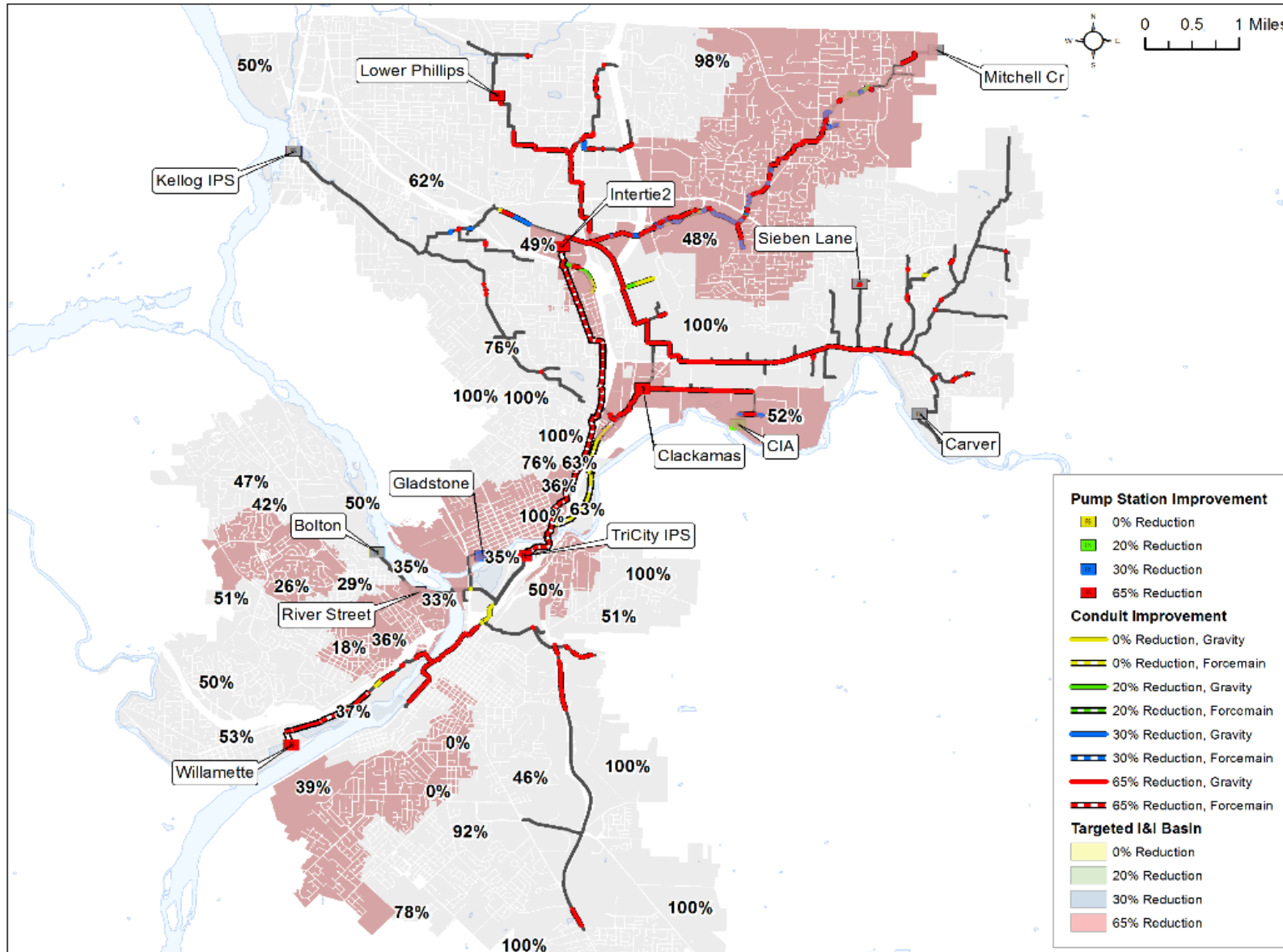




# Inflow and Infiltration



# Inflow and Infiltration





A photograph of three children (two girls and one boy) crouching by a shallow stream with many rocks. They appear to be looking at something in the water or on the rocks. The background is a dense green forest.

# Inflow and Infiltration Partnering Timeline

- WES and city public works staff have been studying this problem since 2018.
- WES raised issue with cities in 2020, included in annual reports.
- Robust discussion with WES advisory committee in 2020 and early 2021. Committee voted to approve regional approach.
- BCC reviewed options and approved regional approach.
- WES staff discussed outline of the approach with city managers.
- IGA drafted and distributed to city staff and attorneys for feedback.
- Goal is to have IGA adopted by all cities in the next few months.

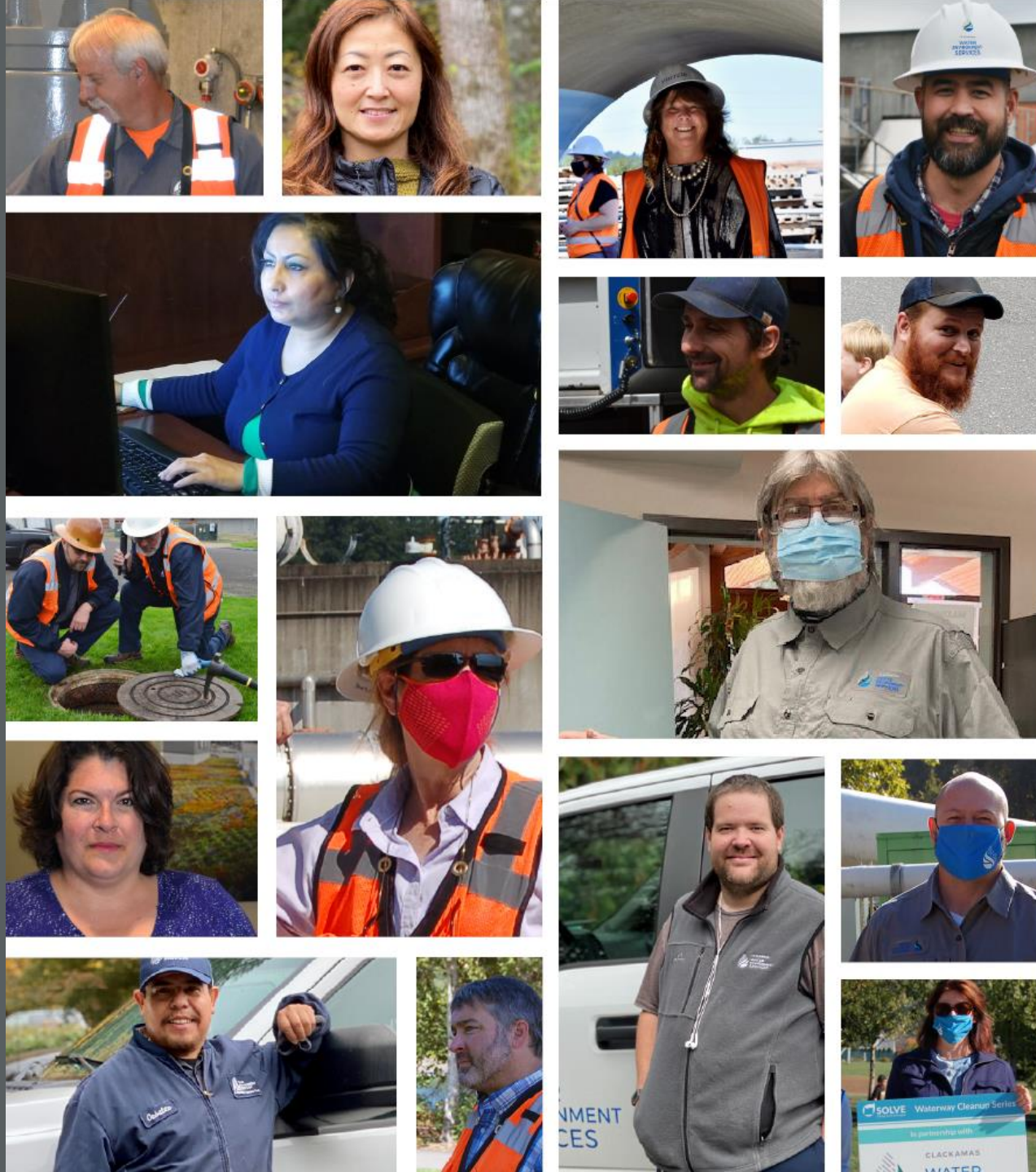


# Regional Partnership Approach

- WES will reimburse 33% of I/I improvement costs in the target areas that are experiencing excessive I/I.
- Pilot approach for 5 years, no maximum dollars per city.
- Existing technical advisory team of WES engineering and city public works staff will review projects to ensure they are qualifying projects.
- Annual process to allow for appropriate budgeting, targeting February 1<sup>st</sup> for list of anticipated qualified projects.
- WES contributions reflect overall savings to ratepayers through collective regional approach, estimated at over \$100 million over 20 years.



It's our goal to ensure that our families and neighbors enjoy the benefits of safe, healthy water for generations to come.



Clackamas Water Environment Services  
150 Beaver Creek Road #430  
Oregon City, OR 97045

503-742-4567  
wescustomerservice@clackamas.us

[clackamas.us/wes](https://clackamas.us/wes)