



PORTLAND WATER BUREAU

Bull Run Filtration Projects

Multnomah County Land Use Application Public Hearing

June 30, 2023

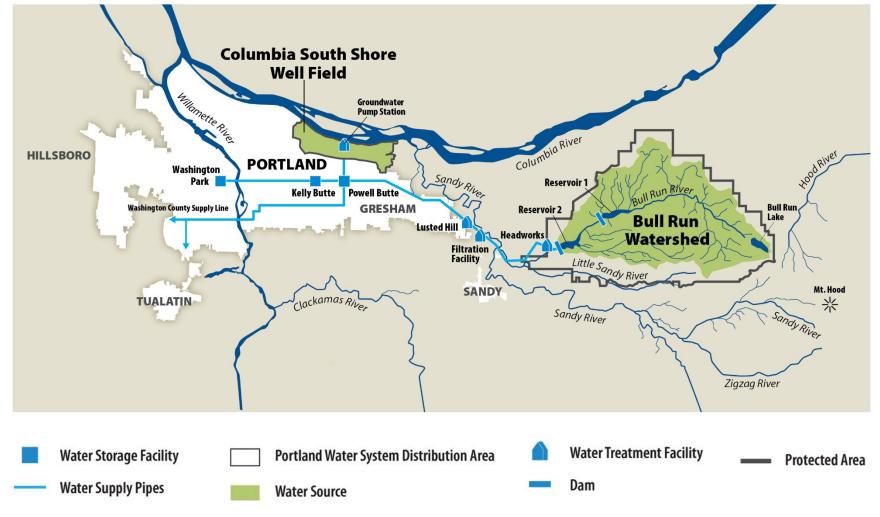


Agenda

- 1. Introduction
- 2. Design Overview
- 3. Key Issues in Land Use Approval Criteria

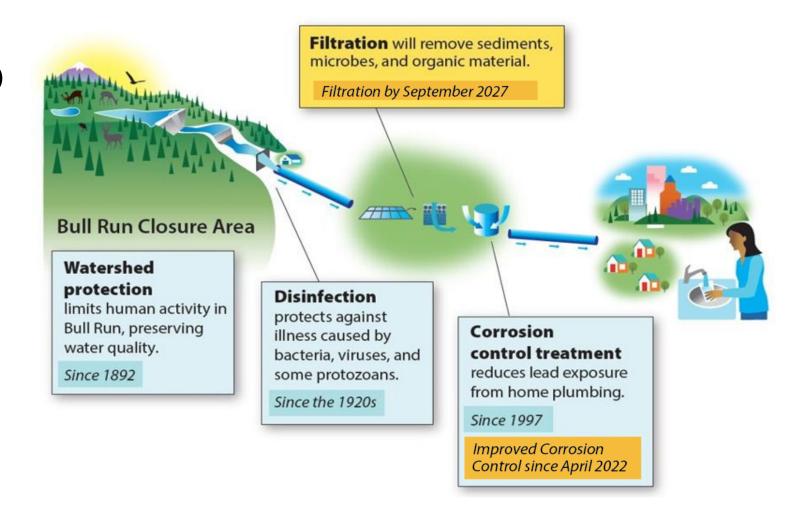


Portland's water system has been a source of excellent water since 1895



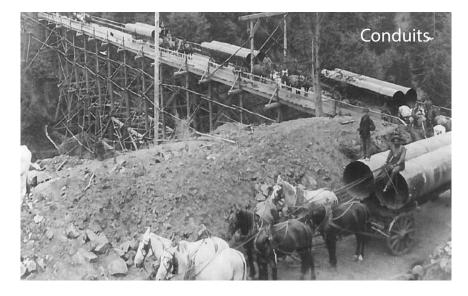
- Currently serves almost 1 million people
- Uses 100 million gallons of water on an average day
- Serves the City of Portland and 19 wholesale customers, including Pleasant Home Water District

Improvements to the system are needed to meet national drinking water standards



Bull Run water system has helped define character of the area for 125 years

- Bull Run water system was built in the late1800s
- About 24 miles of pipeline were laid to create a gravityfed supply of clean water
- Improvements to the original system have included building pipelines and the Lusted Hill Treatment Facility







Facility is planned on property Portland purchased in the 1970s for future water facilities

- Hydraulically preferred to maintain gravity flow
- Proximity to other facilities
- Zoned by Multnomah County Land Use Planning as Multiple Use Agriculture (MUA-20)
- Use is allowed as a conditional use
- Filtration Facility not located in EFU zone
- Site can accommodate a buffer between the facility and its neighbors

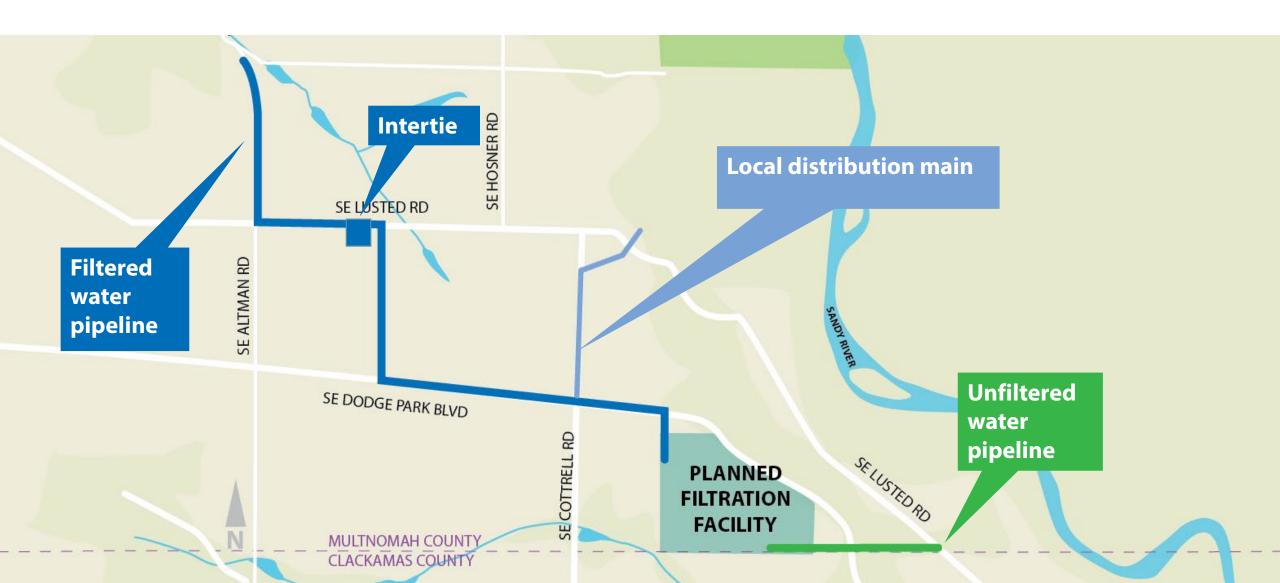


Filtration facility location

- 135 million gallons per day
- Conventional granular media filtration



Proposed pipeline routes



Design approach

- Review facility types in local area
- Work with Site Advisory Group on preferences
- Use Columbia Gorge guidelines as reference
- Design to fit in with surroundings and blend
- Create a unified campus look and feel
- Use landscaping to control views in and sound out
- Respect habitat buffers
- Meet Dark Sky and noise standards





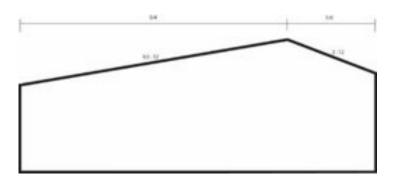




Facility design

- Using only 45 of 90 acres for development
- Occupiable/office function: 13,012 sf
- Warehouse/storage function: 70,968 sf
- Non-occupiable/treatment function: 245,645 sf
- 35' max building height
- Resilient, dark-colored materials
- Familiar roof lines and simple forms





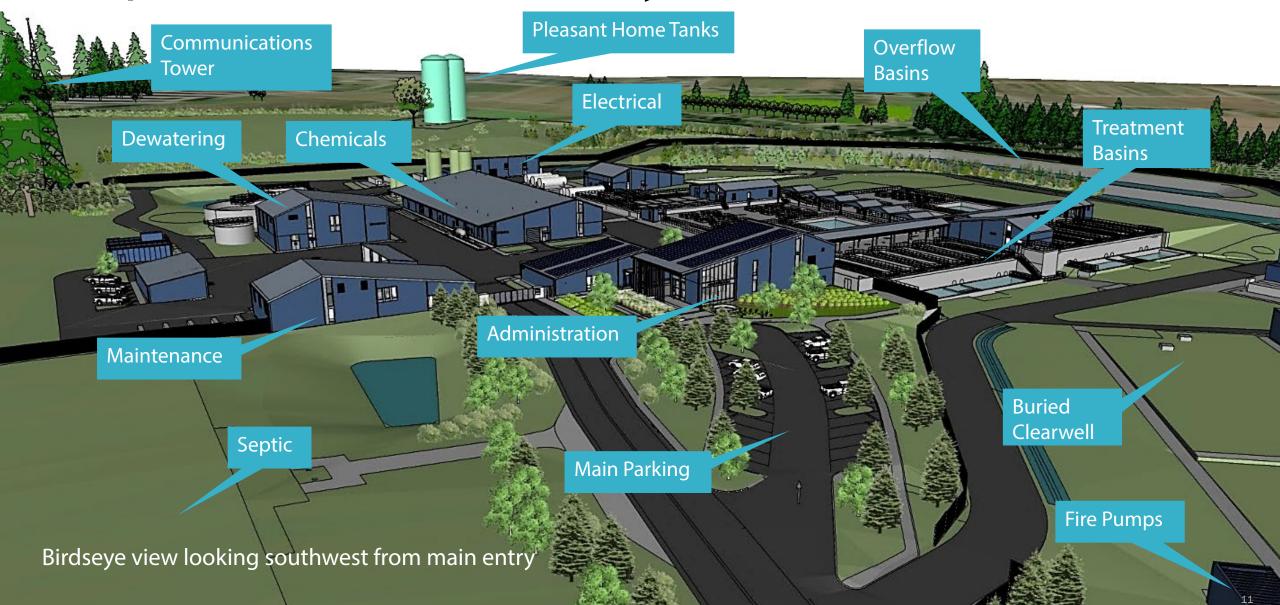
Asymmetrical gable roofline







Proposed filtration facility



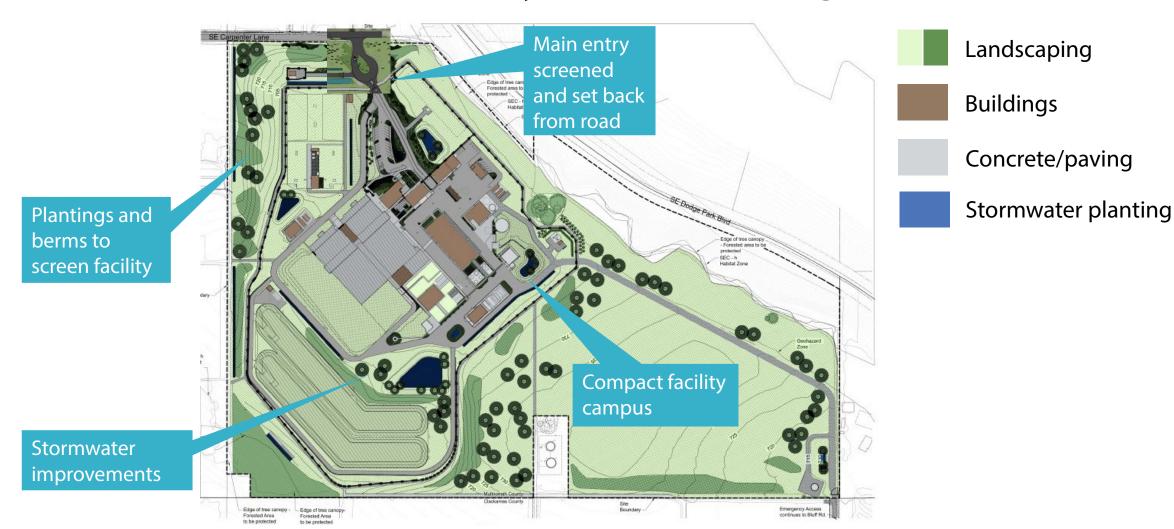
Communications tower located near treeline





- Tower meets approved standards
- Painted to help blend in with tree and sky
- Against treeline to reduce visual impact
- Vegetative screening at base

Proposed design includes a buffer between the water filtration facility site and neighbors



Views toward facility from Carpenter Lane

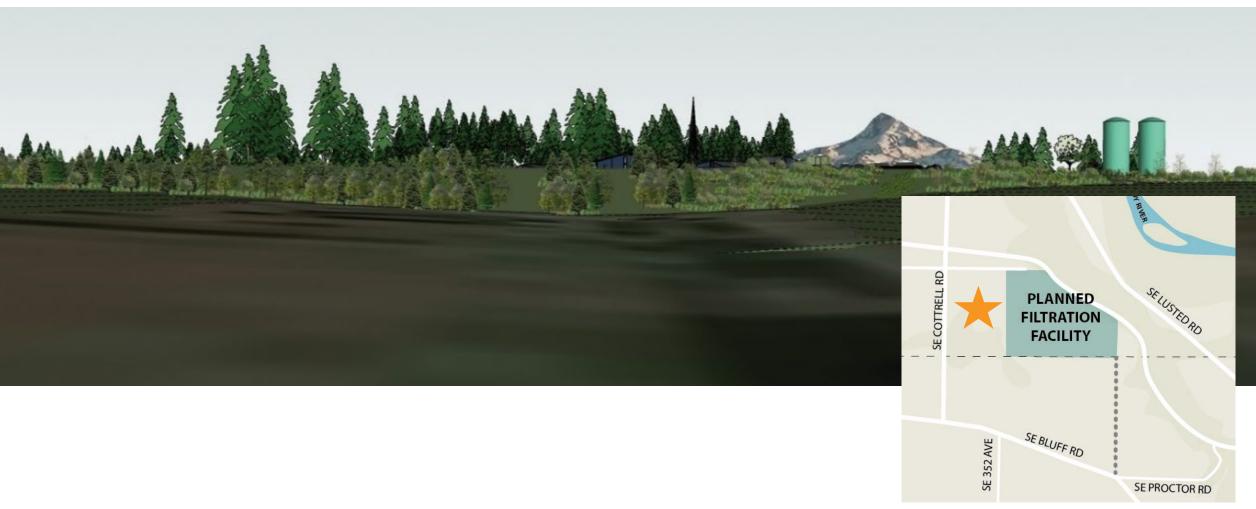
View of main entry set back from roadway



SE PROCTOR RD

View toward facility looking east

(Mount Hood location approximate)



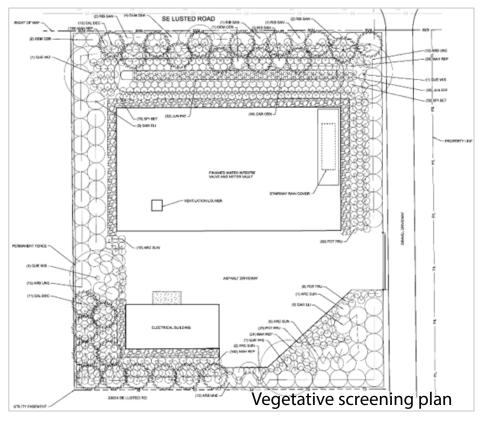
Intertie site and screening

- Small above-ground structure
- Screened with landscape
- Venting systems similar as existing

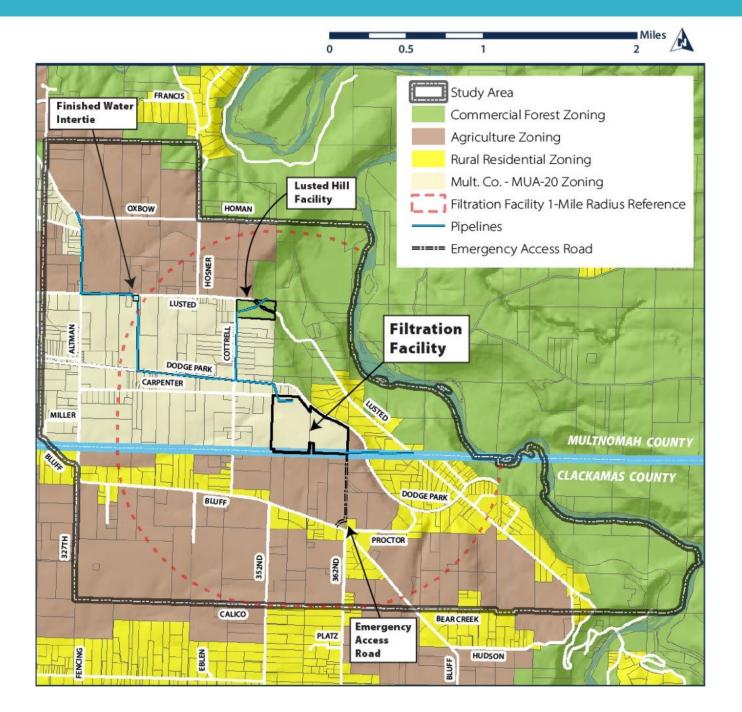








Key Approval Criteria Issues



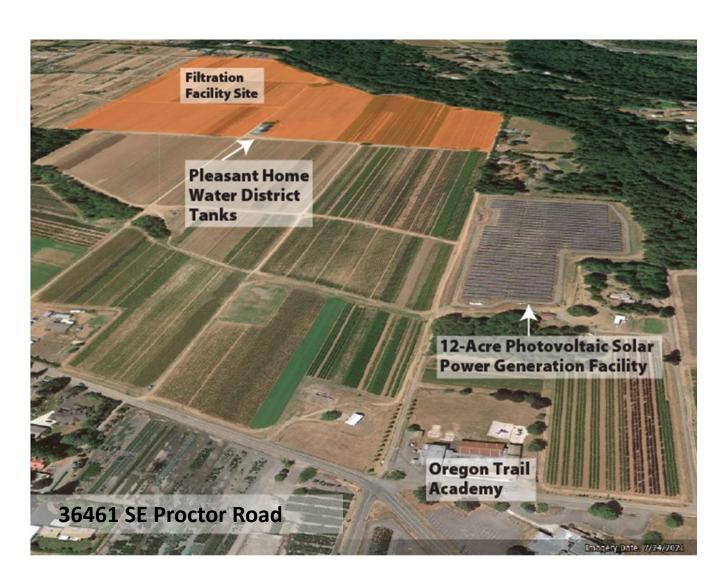
Is consistent with the Character of the Area

Lusted Hill Treatment Facility



- Forested screening of secured operating area
- Green surge tank near entrance
- Operations building
- Two 50 ft tall white silos
- One communications tower (green at base)
- Employee parking spaces

Photovoltaic Solar Power Generation Facility



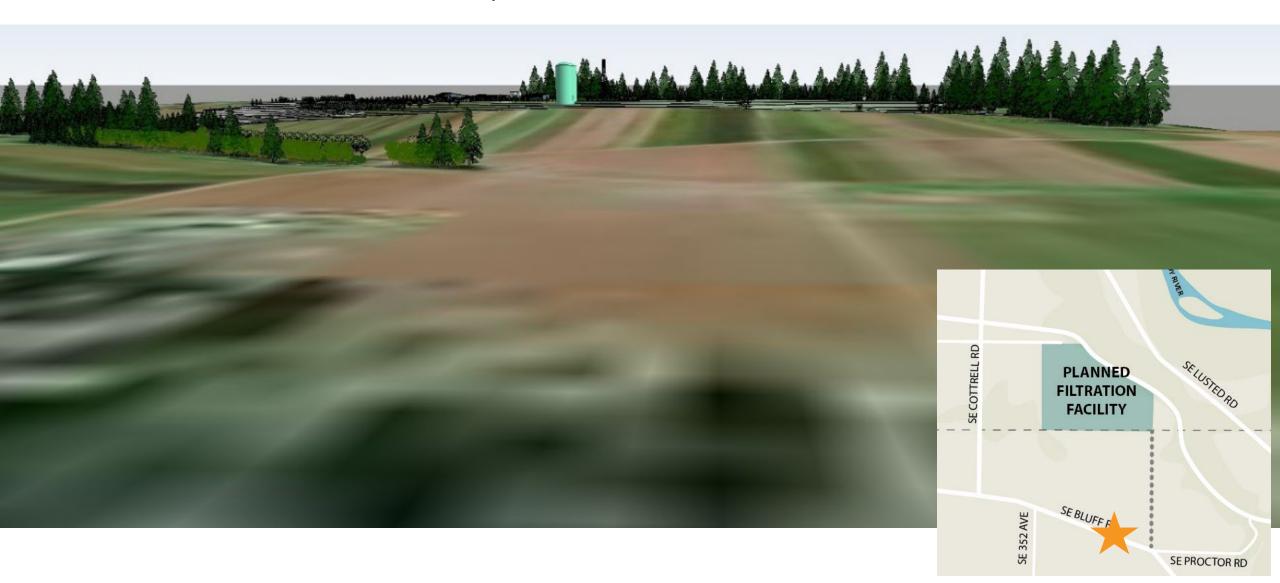
- Includes passive solar panel modules on about 12 acres of EFU-zoned property
- Approved by Clackamas
 County in 2018 as a
 "commercial utility facility for
 the purpose of generating
 power for public use"
- Hearings officer did not require screening from adjacent homesites or farm and forest land

Sester Farms nursery operations center



- Site is zoned EFU
- 9 warehouse and processing buildings
- 6 greenhouses
- Semi-trailer truck loading area
- About 109 parking spaces
- Combined building footprint of roughly 92,000 sf

View of the facility seen from SE Bluff Road



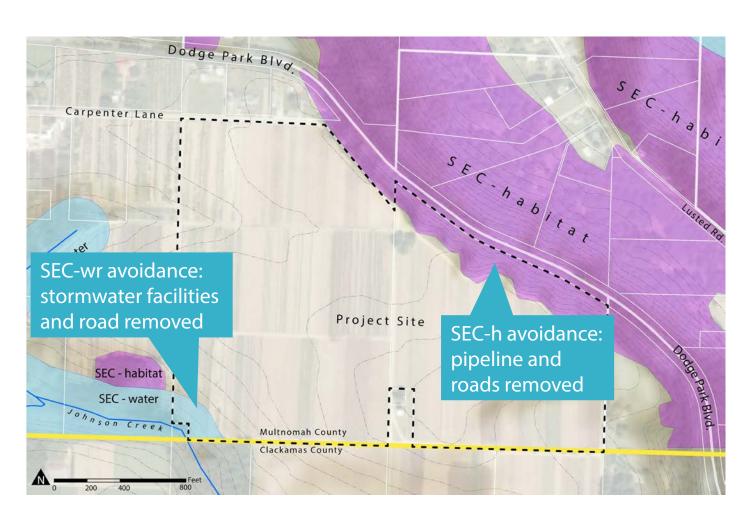
Noise levels from normal operations will be less than 50 dBA at the property line at all times



- Facility is clustered near center of site and buffered by landscape berms and plantings
- Design includes noiseattenuating features for equipment
- Facility complies with Multnomah County and Clackamas County noise codes

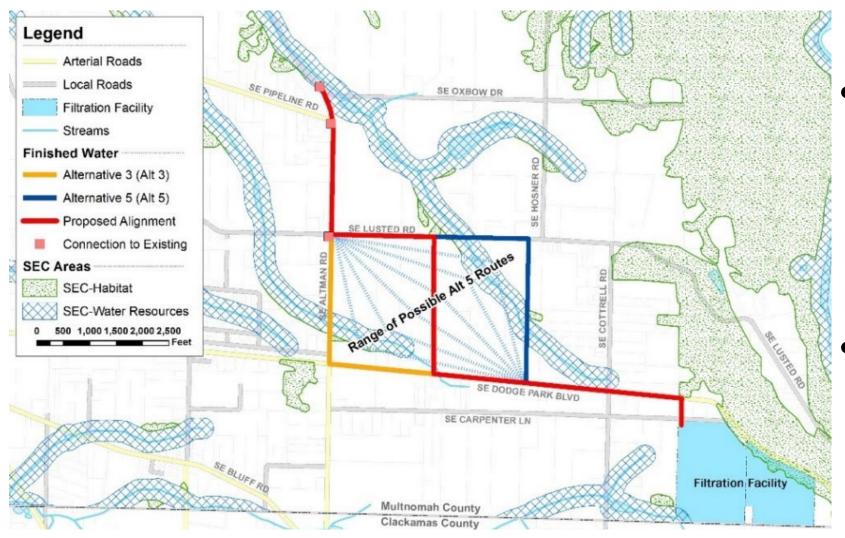
Will not adversely affect natural resources

Filtration facility site with SEC overlays



- Development completely avoids the protected SECwr and SEC-h areas
- Native plantings are proposed on the exposed SEC slopes to enhance habitat in the 200 ft buffer along Johnson Creek

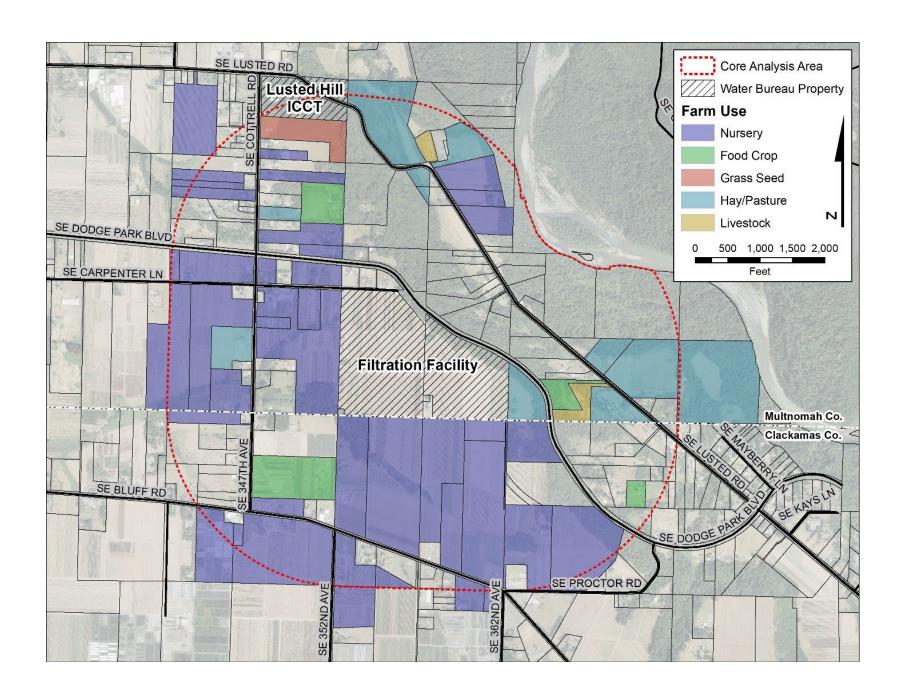
Proposed pipeline route avoids SEC-wr overlay



- Potential finished water pipeline routes were evaluated and modified to avoid impacts to protected resources in SEC zones
- Proposed route avoids crossing Beaver Creek

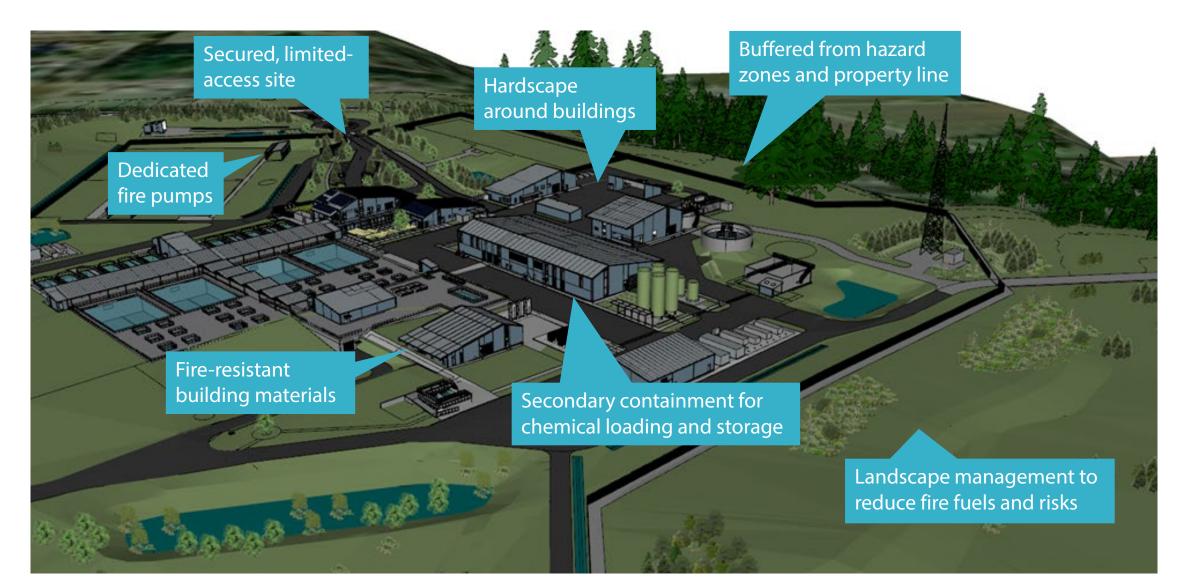
The use will not: (1) Force a significant change in accepted farm or forest practices on surrounding lands devoted to farm or forest use; nor (2) Significantly increase the cost of accepted farm or forest practices on surrounding lands devoted to farm or forest use.

Farm uses in agricultural core analysis area



Will not create hazardous conditions

Code-compliance and other hazard mitigation







Bull Run TREATMENT PROJECTS

Our water: Safe and abundant for generations to come

Thank you!

Learn More portland.gov/bullrunprojects