

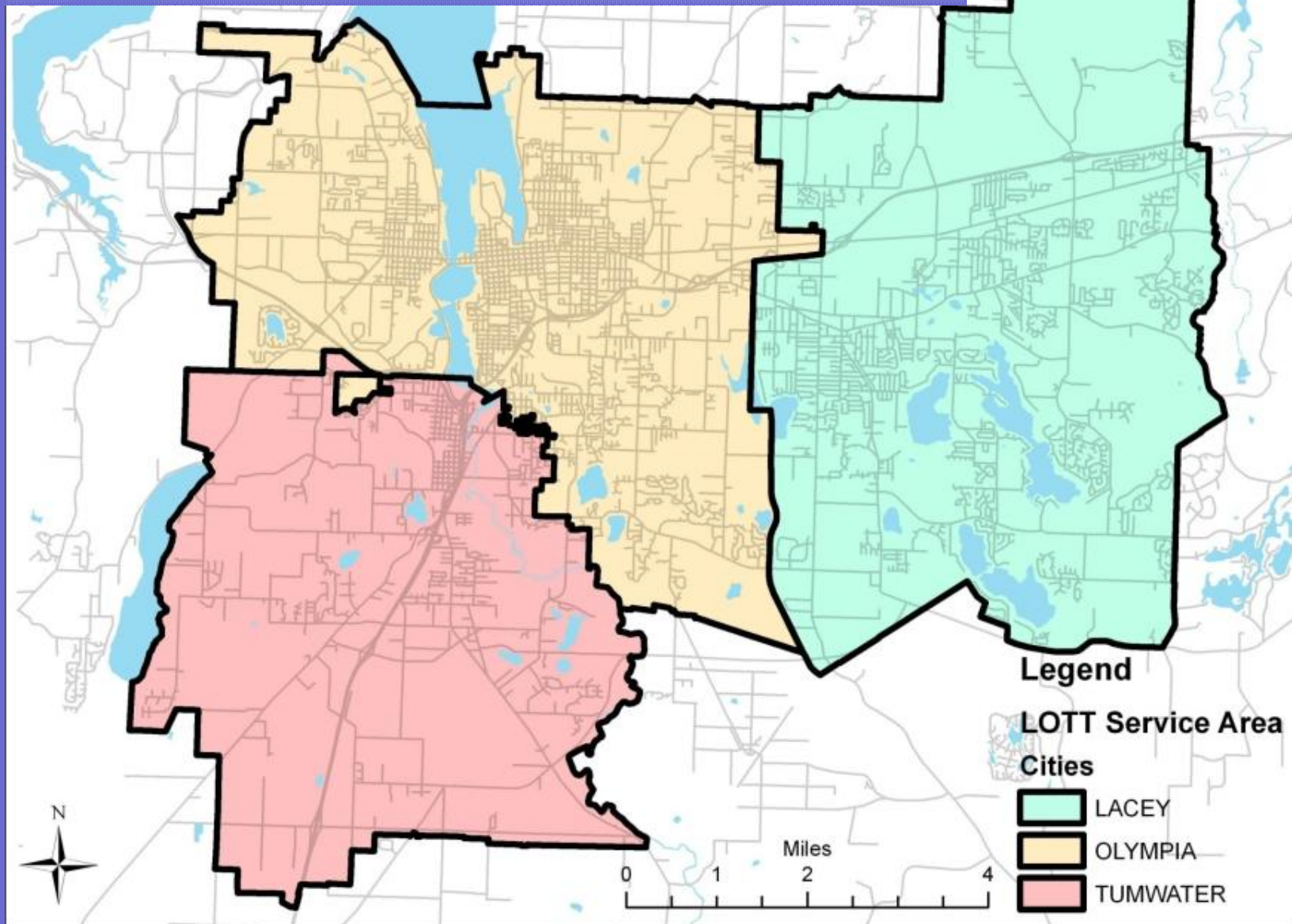
An aerial photograph of a city, likely Seattle, with a snow-capped mountain (Mount Rainier) visible in the distance. The city is densely packed with buildings and green spaces. A large body of water is visible on the left side of the image.

Unconventional Source Types: Putting the Pieces in Place for Water Reuse through Interagency Collaboration

Lisa Dennis-Perez
Public Communications Manager



Mission: Preserve and protect public health and the environment by cleaning and restoring water resources for our communities





Budd Inlet Treatment Plant



Wastewater Resource Management Plan

Four part approach:

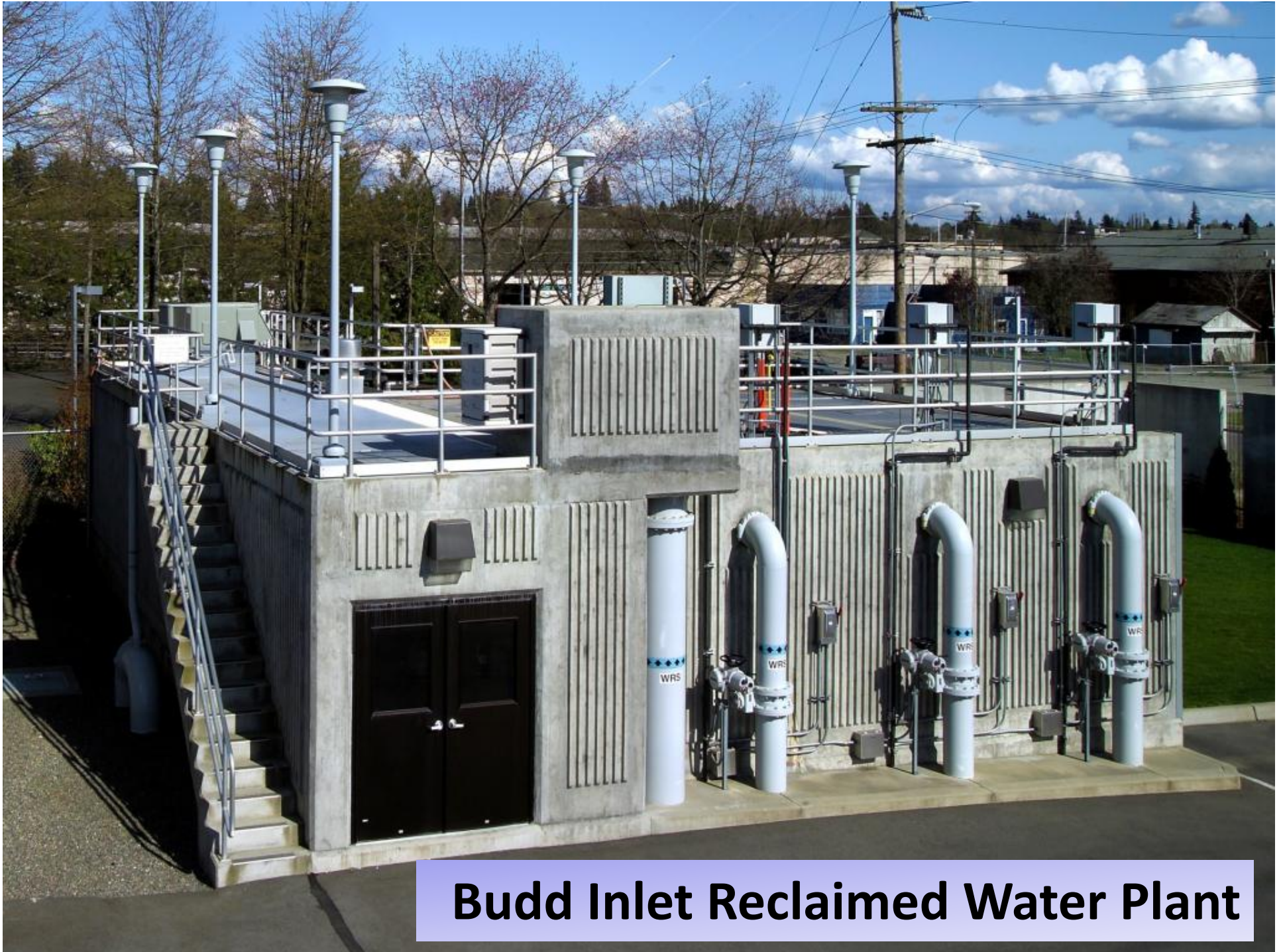
- Flow Reduction
- Increased Wintertime Discharge
- Reclaimed Water
- Groundwater Recharge





Producing Reclaimed Water





Budd Inlet Reclaimed Water Plant





**Martin Way
Reclaimed Water Plant**





Establishing Policy Infrastructure

**“once we produce the water,
then what?”**

Policy Questions

- Who owns/ has rights to the water?
- How far does LOTT's responsibility go?
- Can responsibility be transferred?
- Who will purvey the water?
- How will water be shared among partners?
- How much will reclaimed water infrastructure cost?
Who pays?
- And more!

Policy Basics

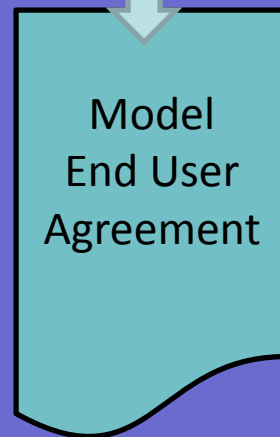
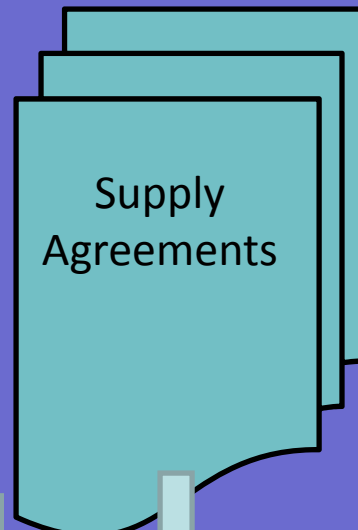
- LOTT serves as the “wholesaler”
- City water utilities serve as the “retailer”
- LOTT’s permit responsibility remain to end use
- Legal agreements secure shared responsibility
- Water is allocated to partners based on their relative flow contributions
- LOTT provides “trunk” lines between LOTT uses
- Cities are responsible for distribution to customers

Policy Framework

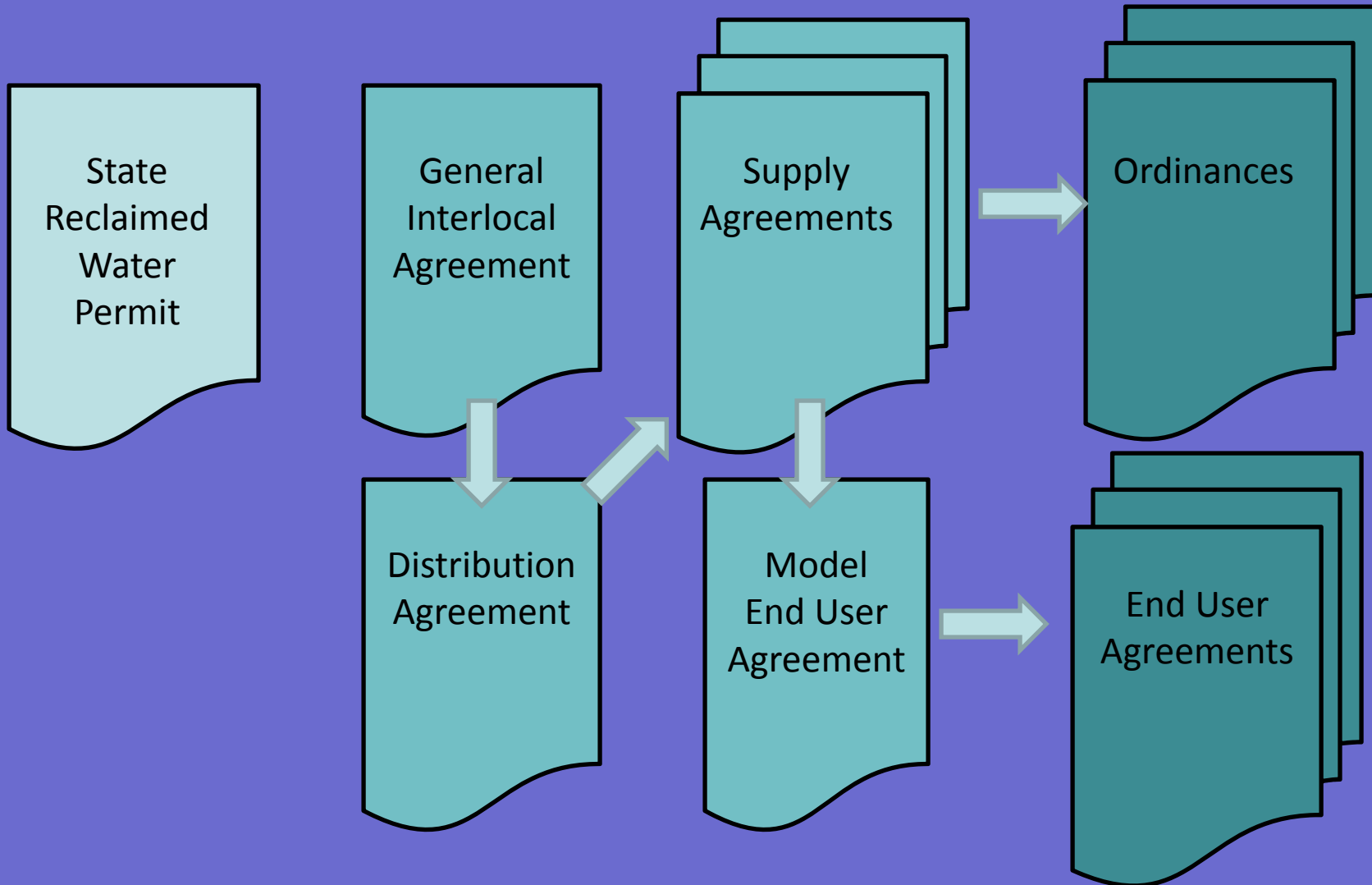
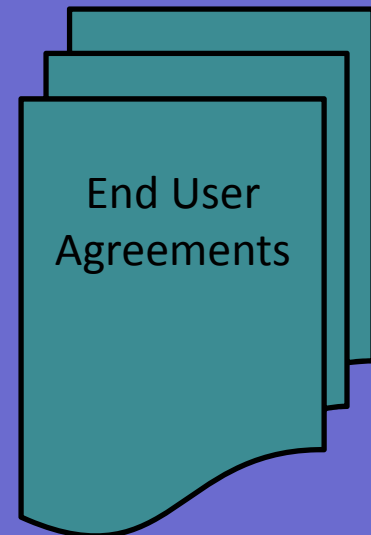
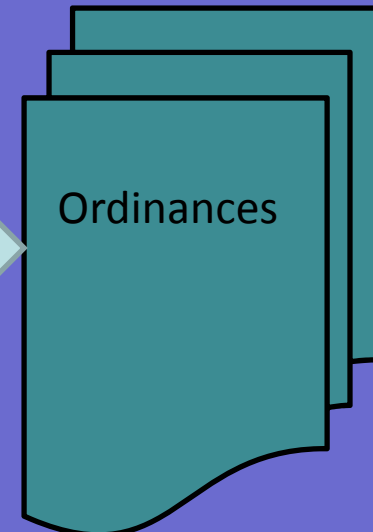
State Level



Regional Partners



City Level

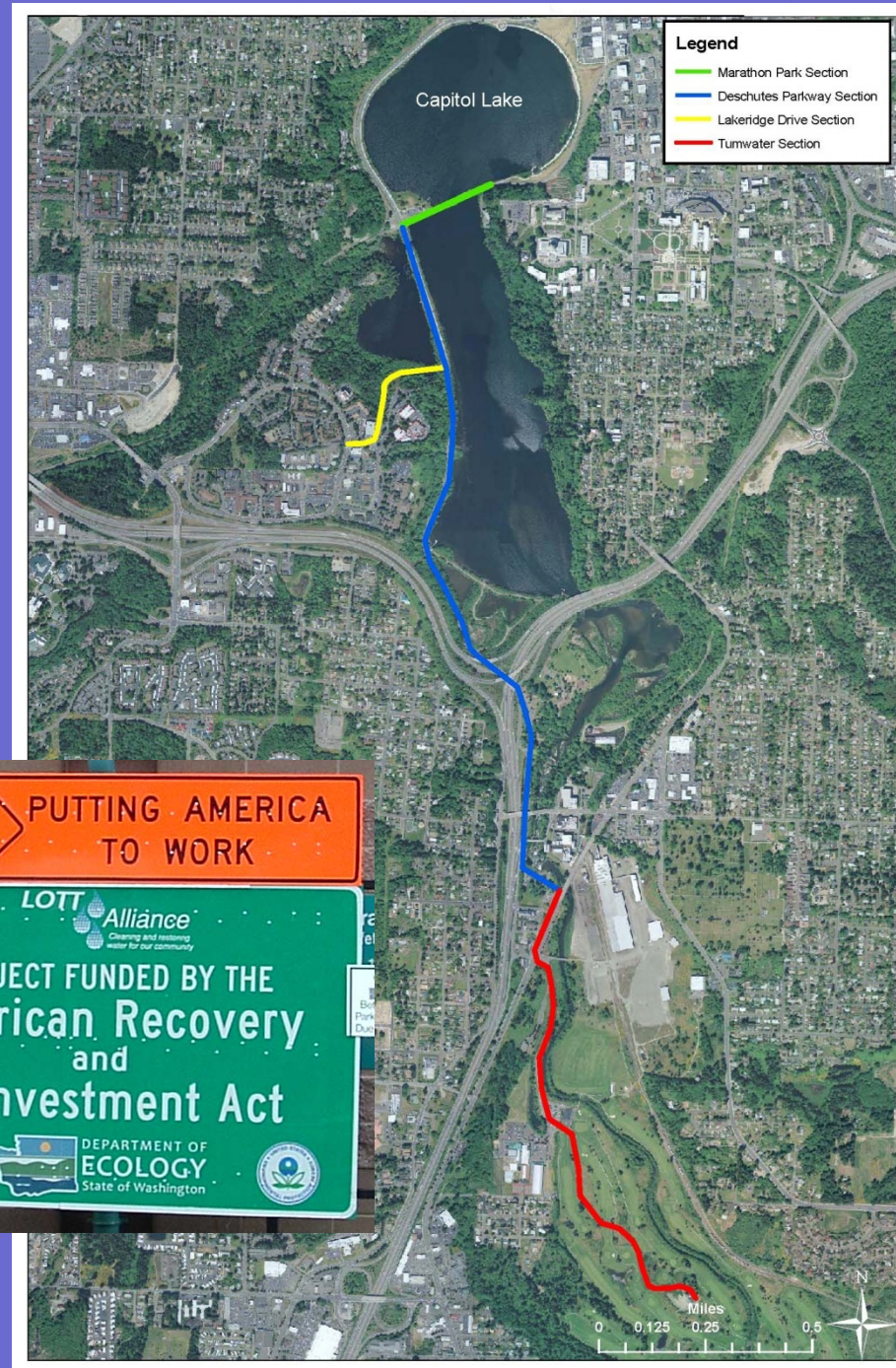




**Putting Reclaimed
Water to Use**



Pipelines to Tumwater and West Olympia



 PUTTING AMERICA TO WORK

LOTT Alliance
Cleaning and restoring water for our community

PROJECT FUNDED BY THE
American Recovery
and
Reinvestment Act

DEPARTMENT OF
ECOLOGY
State of Washington



Heritage & Marathon Parks



Percival Landing

Port of Olympia



LOTT Regional Services Center



**Hands On
Children's
Museum
and
East Bay
Public Plaza**





Future Uses

Future Uses



Hawks Prairie Reclaimed Water Ponds and Recharge Basins

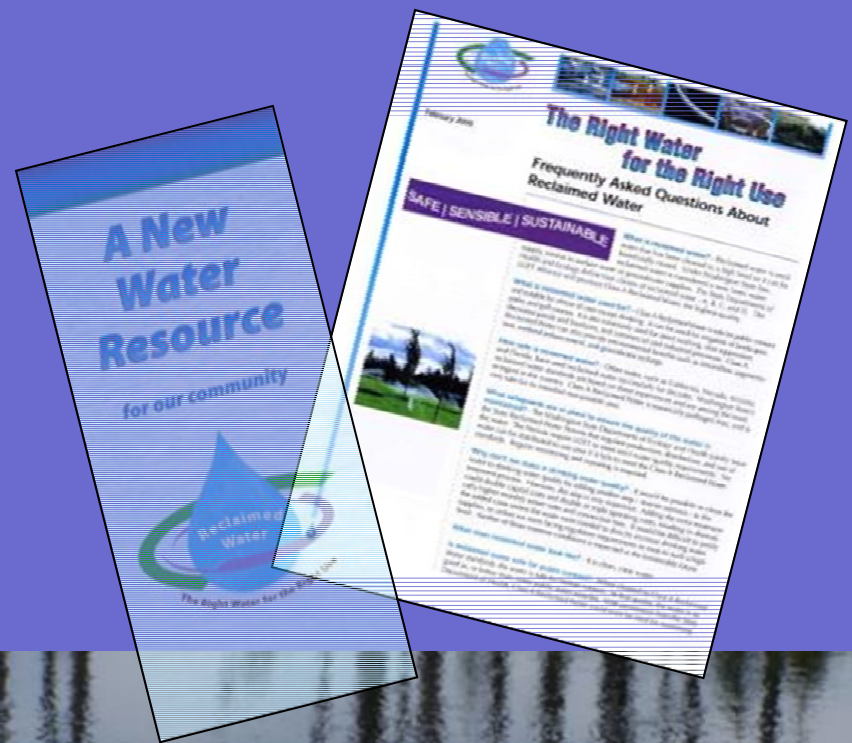


Hawks Prairie Reclaimed Water Ponds and Recharge Basins





**Gaining Public
Acceptance**

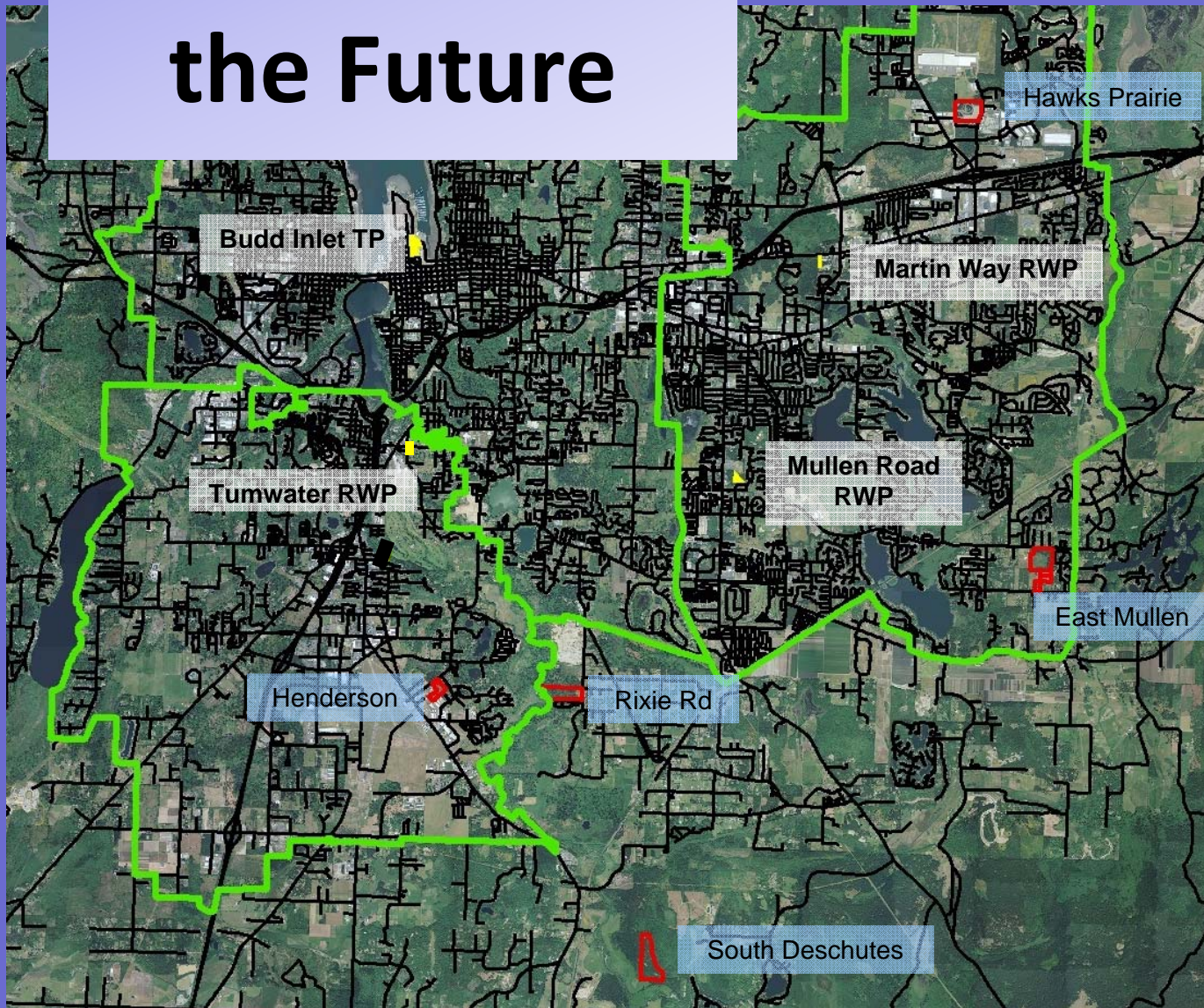




**East Bay
Public Plaza
and
WET Science
Center**






Planning for the Future



Reclaimed Water Treatment and Recharge Sites

Legend

-  RW production site
-  GW recharge site
-  UGA boundary

Regulatory Uncertainties & Watershed Management Issues

- Deschutes River/Capitol Lake/Budd Inlet TMDL
- State Reclaimed Water Rule development
- Thurston County Critical Areas Ordinance
 - Critical Aquifer Recharge Areas chapter
- Residual Chemicals

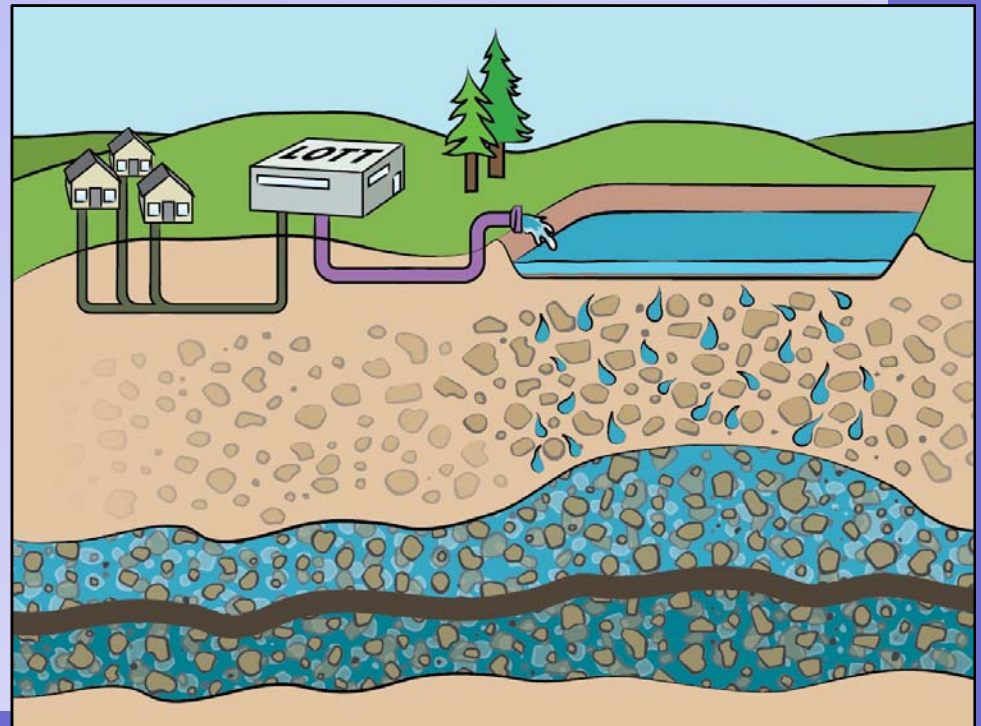
Reclaimed Water Infiltration Study

What are the risks from infiltrating reclaimed water into groundwater because of chemicals that may remain in the water from products people use every day, and what can be done to reduce those risks?



How Will Study Results Be Used?

- To Compare Options like:
 - Continuing the reclaimed water program as planned
 - Treating the reclaimed water to a higher quality, using advanced treatment processes
 - Investing in other uses of the water to reduce the amount being infiltrated
- To Help Policymakers
 - Decide if program changes are needed
 - Develop future regulations



Reclaimed Water As a Water Source

- **Stretch Water Supplies through Non-Potable Reuse**
 - Irrigation: Parks, Streetscapes, Golf Course
 - Cleaning and Process Water: Treatment Plants, Port
 - Decorative Water Features: LOTT Building, Park, Pond Site
- **Replenish Groundwater Supplies**
 - Infiltration of Reclaimed Water: LOTT Hawks Prairie and Future Sites
- **Mitigate for New Water Rights**
 - Infiltration of Reclaimed Water: Lacey and Olympia's Woodland Creek Recharge Facility



Questions?

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