

**CLACKAMAS RIVER WATER BOARD OF COMMISSIONERS  
BOARD WORK SESSION  
October 24, 2022**

**COMMISSIONERS PRESENT:**

Sherry French, President  
Naomi Angier, Secretary  
Tessah Danel, Treasurer  
Rusty Garrison  
Bob Rubitschun

**STAFF PRESENT:**

Todd Heidgerken, General Manager  
Karin Holzgang, Executive Assistant to the Board

CRW Employees: Chief Finance Office, Jason Kirkpatrick; IT Manager, Kham Keobounnam; Chief Engineer, Adam Bjornstedt; Engineering Manager, Joe Eskew

**COMMISSIONERS ABSENT:**

**VISITORS: Bob Rubitschun, Chris Hawes**

**Call Work Session to Order**

Commissioner French called the meeting to order at 6:00 pm. Roll call was taken

**1. Capital Improvement Projects (CIP) Process Review and Updates (see attached presentation)**

- Past Planning and Strategy Decisions
  - ✓ 2021 WTP facility plan
  - ✓ 2019 Water System Master Plan
    - Short-term small-scale replacements (1-6 years projects)
    - Long term projects are longer-term to address capacity
    - Looking at alternative funding methods being discussed
    - Recommends short and long-term improvements
    - Targets pipping, storage and pumping to meet service goals. Some funded in reserves and others with alternative funding options.
  - ✓ 2021 CIP Strategy- looks at both plans and helps identify the projects for focus and how to prioritize those over the 20-year look ahead the plans identified
- Focused Initiative categories- southside enhancements interim plan
  - ✓ Continuation of goals of previous “backbone” program to enhance the service to the south side customer
  - ✓ Interim plan utilizing existing infrastructure to meet goals with compressed timeframe and budget
    - longer term addresses future capacity projections
    - enables budget considerations for WTP facility improvements
- Projects are prioritized to “budget level”
  - ✓ Recommended improvements always greater than District capacity to fund and complete

- ✓ Short-term (4-6 year) plans allow time to address some immediate needs while planning for future
- ✓ Ongoing CIP planning supports budgeted project execution and biennial budget
- Current (FY 21-23) CIP program progress and challenges
  - ✓ 12 projects totaling 6.3 million
  - ✓ Variety of WTP and distribution improvements
  - ✓ Projects, are designed, bid and built with a uniform approach to complete within fiscal period (ideally)
  - ✓ Progress
    - Completed 2 projects, one awarded and pending construction start, others in design phase
  - ✓ Challenges
    - Supply chain-materials delays
    - Labor/economic-contractor delays
    - Partner agency delays
  - ✓ How challenges are mitigated
    - Requires a flexible approach
    - Identify alternative procurement methods to get ahead of supply delays
    - Looking at design and construction options apart from partner agencies
    - Identify/ "filter" projects that may be easier to execute and still provide value
- Current CIP Program Strategy and Impacts
  - ✓ Impacts
    - Must consider overlap when projects cross fiscal periods
    - Adjust CIP plan including fiscal plans
  - ✓ What's changed
    - 3 waterline projects will carryover to 23-25 budget due to county delays
    - WTP filter valve project will carryover to 23-25

**2. Special Districts Legislative Action Policy-** CRW as a Special District are not part of cities, counties and states when considered for federal monies or legislation but are considered separately and may be left out (for instance the COVID money that went to the cities and counties and bypassed Special Districts). To help give voices to Special Districts through SDAO there may be immediate requests for support of issues and advocating to the legislature on special districts behalf. The Board may have the opportunity to approve a resolution allowing a designed person (GM or Board President) to act and provide support of those SDAO issues without going to the Board for approval on each issue.

**3. Conservation Activities Update (see attached presentation)**

- Water Management and Conservation Plan (WMCP) provides and overview of the conservation measures and benchmarks used by CRW
- CRW partners with the CRWP and RWPC to provide conservation programs, rebates, and conservation tools
- RWPC focus area is meeting water needs, consistent messaging (media, print, social media).

- Conservation Educational info- school presentations, community events, websites, and print materials.
- Conservation rebates and tools- rebates, technical assistance (how to videos, water tools and audit kits.

**4. Commissioner Communications- None at this time**

**5. General Manager Update**

- Oak Lodge sent CRW a letter expressing their appreciation of the work of Betty Johnson in preparing maps in order to assist in their efforts of achieving Authority status.

**Public Comment:** none

**Open meeting is adjourned at 7:45pm**

# Capital Improvement Projects: Process Review & Updates



Board Work Session  
October 24, 2022

Presenters:

**Adam Bjornstedt** *Chief Engineer*

**Joe Eskew** *Engineering Manager*



# DISCUSSION OUTLINE



- High level review of recent planning and strategy decisions
- Focused initiatives/categories
  - WTP Improvements
  - Distribution system Improvements
  - South Side Enhancements- Interim plan
- How projects are prioritized to “budget level”
- Current CIP projects (Budgeted 21-23)
  - Progress and challenges
  - Adjusting strategy
  - Budgetary impacts

# PAST PLANNING AND STRATEGY DECISIONS



- **2021 WTP Facility Plan.** Recommended improvement phases 1&2 ~\$50-70 million.
- **2019 Water System Master Plan.** Recommended improvements ~\$330 million.
- **2021 CIP Strategy.** Combines all recent planning work into a holistic “District-wide” approach.



## All plans...

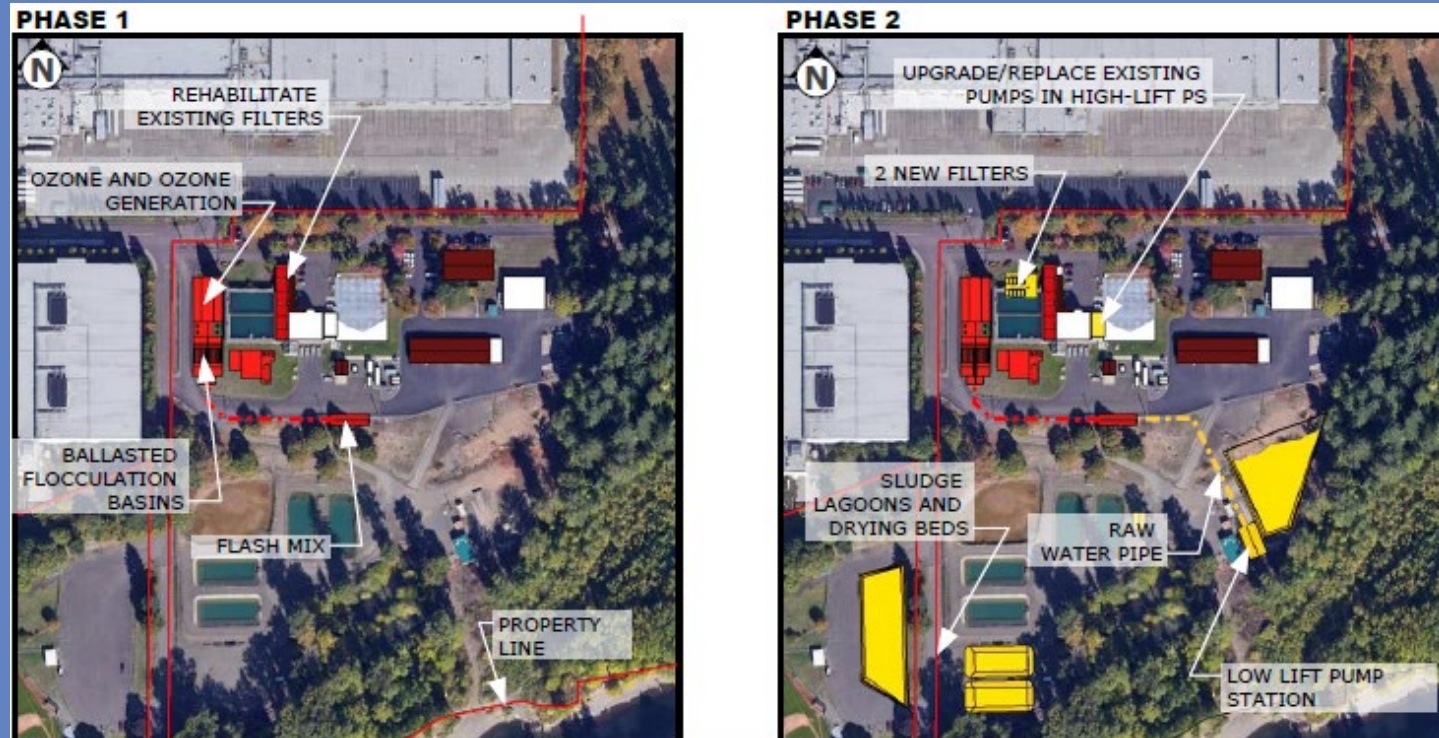
- Define system deficiencies and improvement needs, through the common criteria of **age, capacity, water quality, & hazard resilience.**
- Are based on a 20-year planning period.
- Include high-level estimates in study-year dollars, “AAE level 5”.
- *Are available for a “deeper dive” beyond today’s discussion.*



# FOCUSED INITIATIVE CATEGORIES- WTP IMPROVEMENTS



- Facility Plan recommends short and long-term improvements
  - Short term smaller scale replacements to maintain operations; Funded by CRW capital reserves
  - Longer-term large-scale improvements to primarily address capacity and water quality criteria
  - Alternative funding methods being discussed

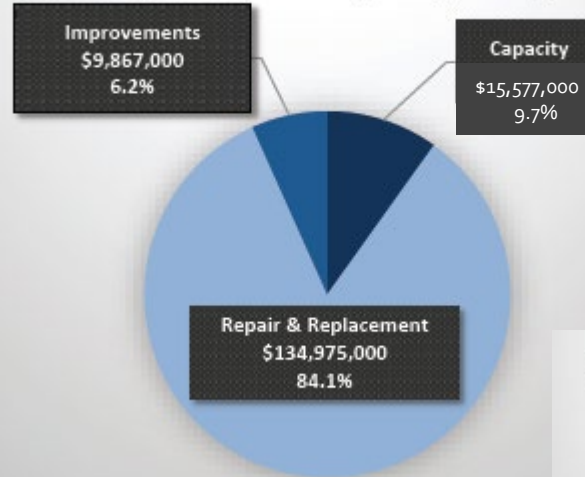


# FOCUSED INITIATIVE CATEGORIES- DISTRIBUTION IMPROVEMENTS

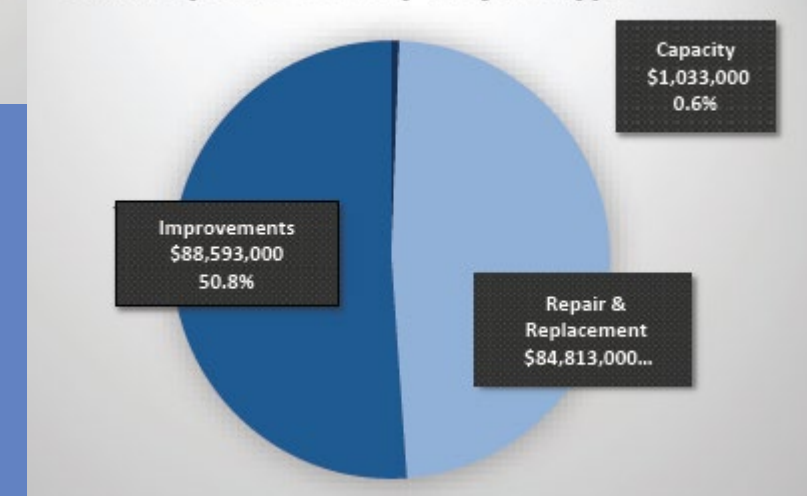


- Master Plan recommends short and long-term improvements
- Plan targets piping, storage, and pumping to meet CRW's service parameters and goals
  - Projects can be funded by CRW capital reserves or alternative sources (TBD)

North System Cost by Project Type



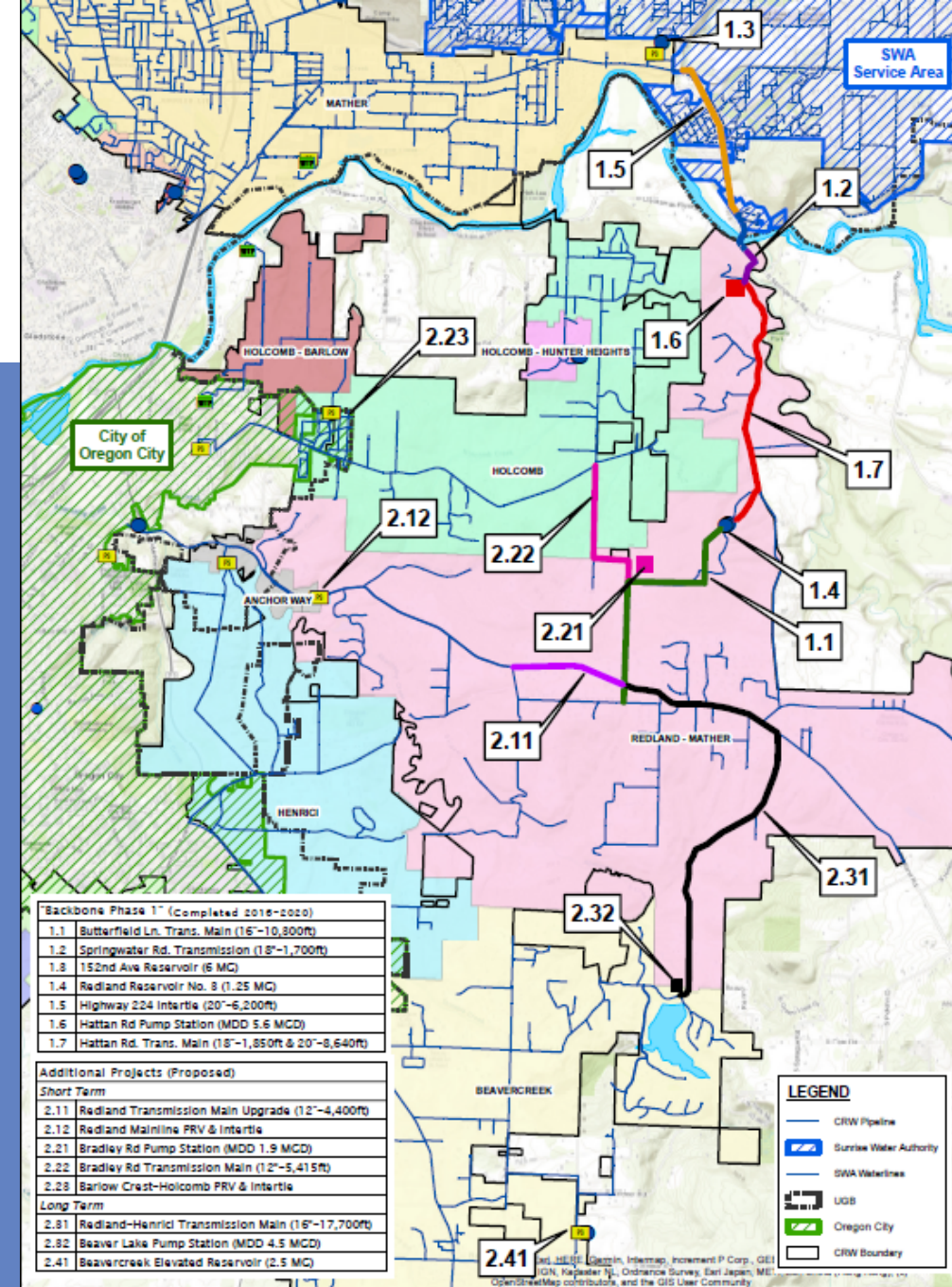
South System Cost by Project Type





# FOCUSED INITIATIVE CATEGORIES- SOUTH SIDE ENHANCEMENTS INTERIM PLAN

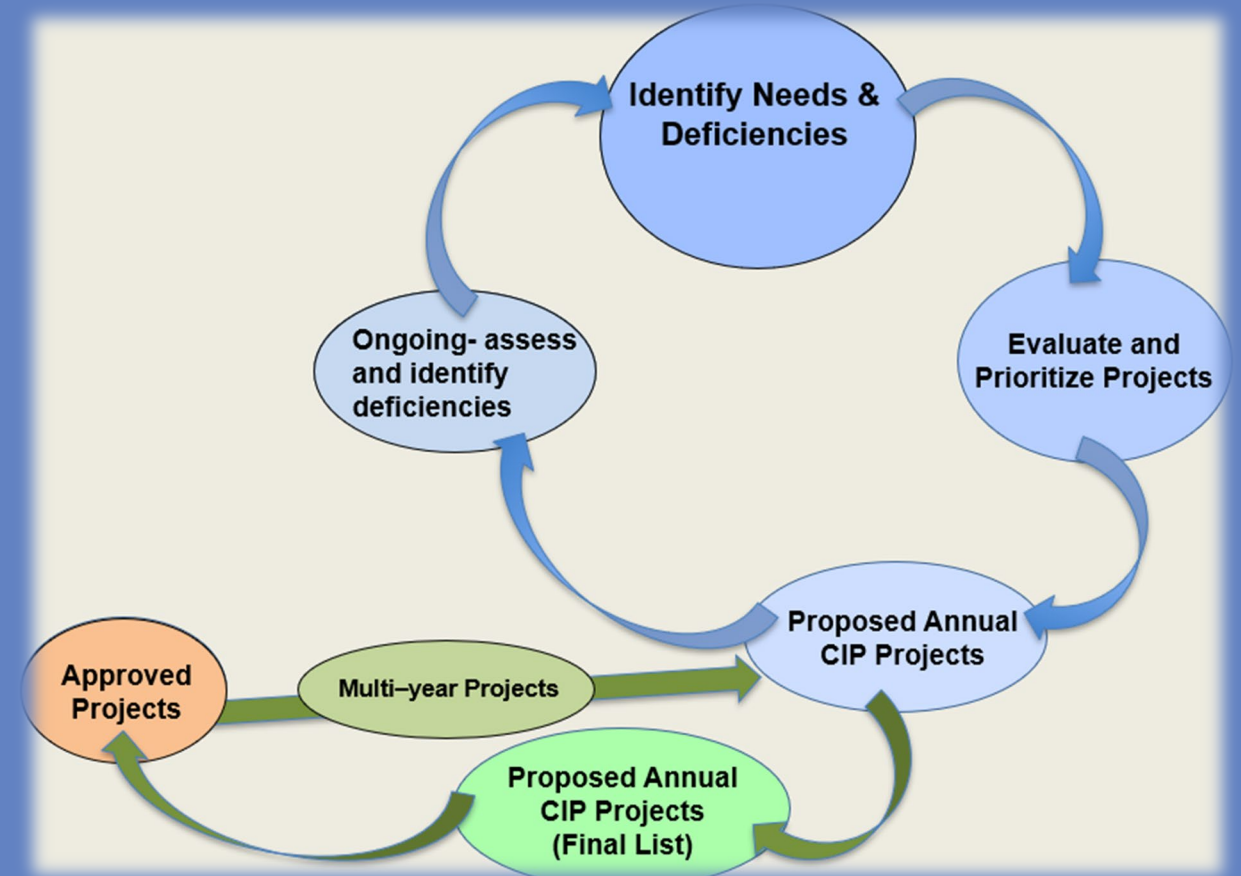
- Continuation of goals of previous “Backbone” program to enhance CRW’s ability to serve south side customers
- Interim plan utilizing existing infrastructure to meet goals with compressed timeframe and budget
  - Longer term addresses future capacity projections
  - Enables budget considerations for WTP Facility improvements



# HOW PROJECTS ARE PRIORITIZED TO “BUDGET LEVEL”



- ❖ Recommended improvements always greater than District capacity to fund and complete
- ❖ Short-term (4-6 year) plans allow time to address some immediate needs while planning for future
- ❖ Ongoing CIP planning supports budgeted project execution and biennial budgeting



# CURRENT (21-23) CIP PROGRAM- PROGRESS AND CHALLENGES



- ❖ 12 projects totaling ~\$6.3 million
- ❖ A variety of WTP and distribution system improvements
- ❖ Projects are designed, bid, and built with a uniform approach to complete within fiscal period...*ideally*.



- ❖ Progress:
  - ❖ Completed 2 projects, one awarded and pending construction start, others in design phases.
- ❖ Challenges:
  - ❖ Supply chain- materials delays
  - ❖ Labor/economic- contractor delays
  - ❖ Partner agency delays (from above and other factors)

# CURRENT (21-23) CIP PROGRAM-STRATEGY AND IMPACTS



❖ Considering these challenges, what are we doing to mitigate and complete projects?



- ❖ Ongoing uncertainty requires a flexible approach
- ❖ Identifying alternative procurement methods to get ahead of supply delays
  - ❖ “Pre-ordering” materials
- ❖ Looking at design and construction options apart from partner agencies (when their schedules are delayed)
- ❖ Identifying “filler” projects that may be easier to execute and still provide value

# CURRENT (21-23) CIP PROGRAM-STRATEGY AND IMPACTS



## *IMPACTS*

- ❖ Must consider overlap when projects cross fiscal periods
- ❖ Adjust/Shift CIP plan including future fiscal plans
  - ❖ Project carryover to next year exposes bandwidth limitations; consider outsourcing designs, funding options
  - ❖ Continue focus on system-wide needs when prioritizing projects
  - ❖ May result in delaying some priorities, “striking while iron is hot” on others

## *WHAT’S CHANGED*

- ❖ 3 waterline projects (Redland, Linwood, Monroe) will likely carryover into 23-25 budget due to County delays
  - ❖ Design effort may be reallocated in-house
  - ❖ Construction may be bid independently of County contract
- ❖ WTP filter valve project will carryover to 23-25
  - ❖ Scope reassessed to maximize replacements; Materials “pre-ordered” to spend some 21-23 budget



# A FINAL WORD...



- ✓ Reminder to review Monthly Report updates
- ✓ A flexible approach helps us address factors and consider impacts, complete recommended projects, and plan for future with modified approaches
- ✓ The Board is involved along the way through contract approvals to design, procure and construct projects, as applicable.
- ✓ We're happy to answer any questions you may have.



*Clackamas River Water*

# Water Conservation Overview

Presented by Todd Heidgerken

October 24, 2022



# Water Conservation

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Water Conservation is defined as those activities designed to:

- reduce the demand for water,
- improve the efficiency of its use, and
- reduce losses and waste.

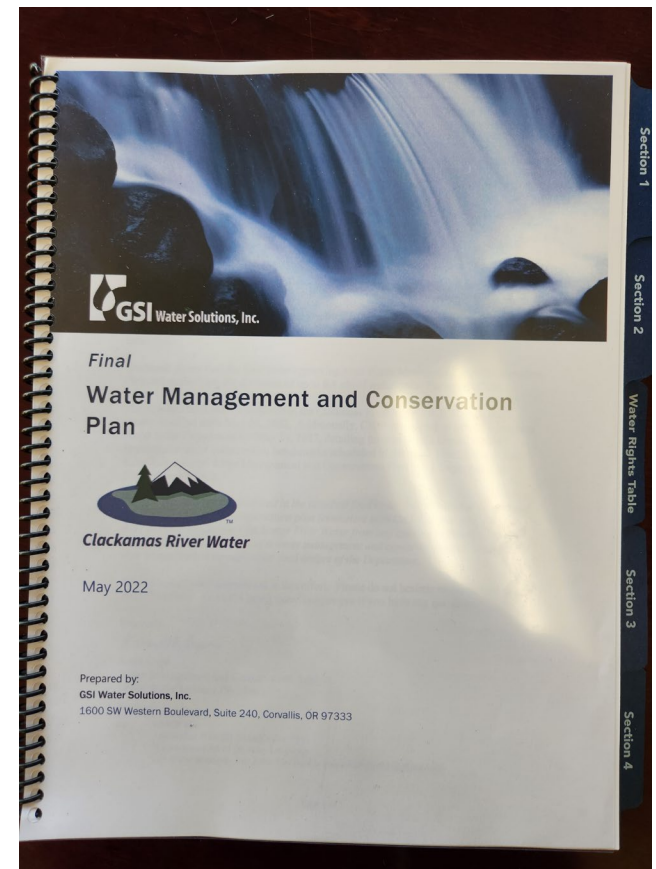
This is achieved through measures such as:

- water-saving devices,
- providing technical information, and
- creating awareness of water efficient actions.

# Water Management and Conservation Plan (WMCP)

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- WMCP provide an overview of various conservation measures and benchmarks
- Approved by the Oregon Water Resources Department – June 2022
- Remains in effect through May 24, 2032
- A progress report to be provided by May 24, 2027



# Water Conservation Partners

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Given that water conservation messages and tools apply to all water providers, CRW augments its efforts through partnerships

## Clackamas River Water Providers (CRWP)

- Water providers who use water from the Clackamas River
- [www.clackamasproviders.org](http://www.clackamasproviders.org)

## Regional Water Providers Consortium (RWPC)

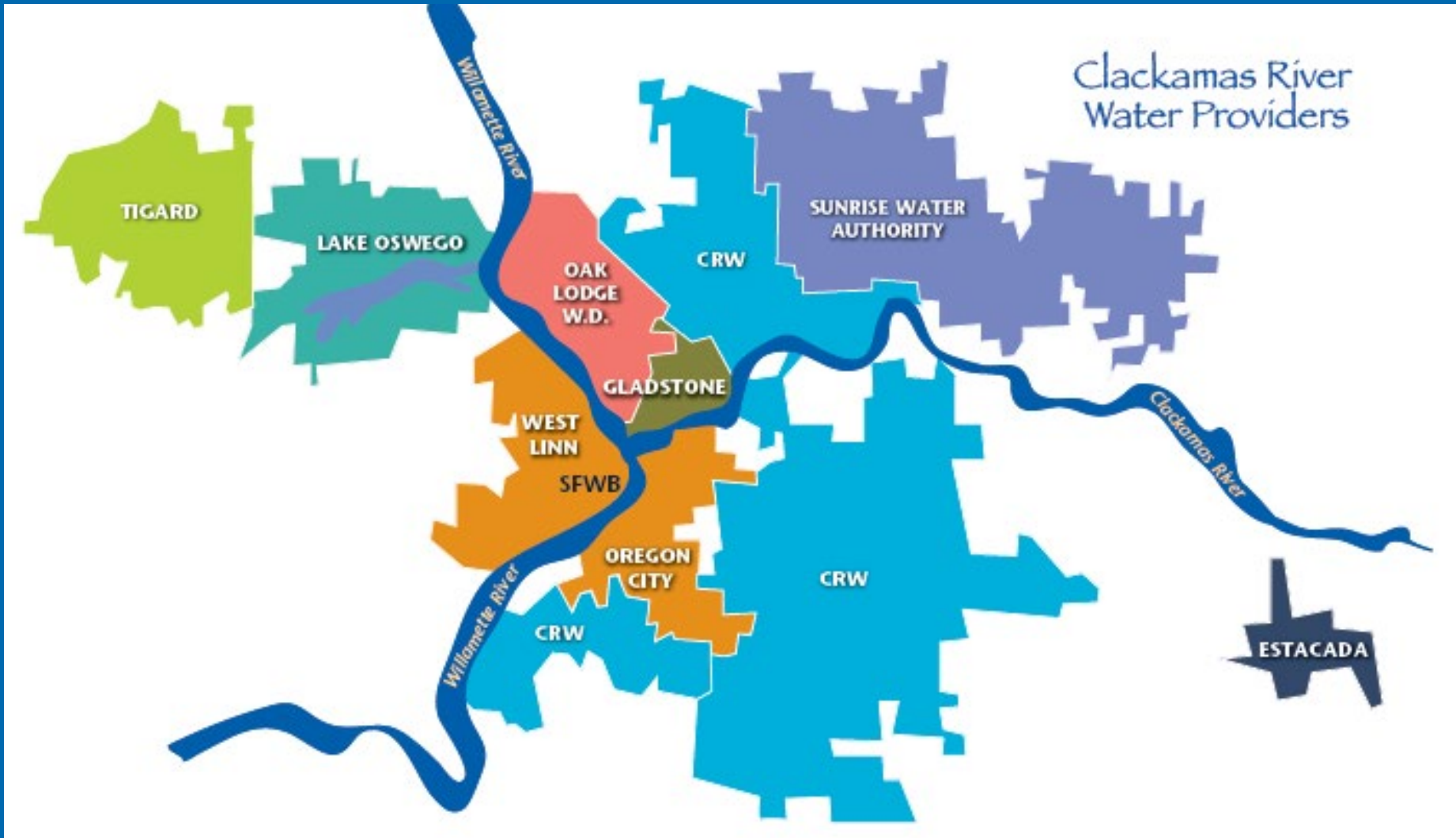
- Consortium of 25 water providers primarily in the tri-county area
- [www.regionalh2o.org](http://www.regionalh2o.org)



# Clackamas River Water Providers Mission

- To foster closer relationships with each other
- To collectively fund and coordinate efforts regarding source water protection, public outreach and water conservation
- To realize economies of scale and save money by sharing in costs
- To speak in one voice regarding water resource issues
- While through the CRWP projects and staff are jointly funded, each individual organization retains their own individual autonomy

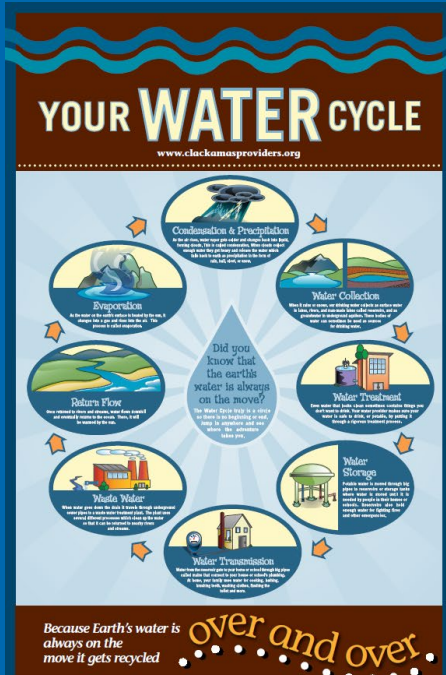
# Clackamas River Water Provider Members



# Public Outreach & Water Conservation Programs

- Youth Education
- Partnerships
- Community events and presentations
- Conservation Rebate Program
- Residential Landscape Water Audits
- Outreach materials and conservation tools

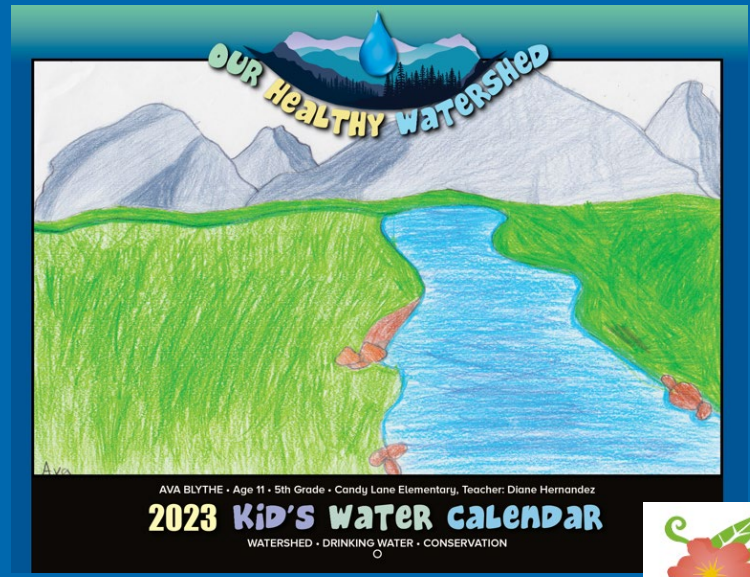
# Conservation Program



Because Earth's water is always on the move it gets recycled **over and over.**

Do your **PART,**  
**be water smart!**

- **Water your garden** before 10am and after 6pm when temperatures are cooler
- **Adjust your sprinklers** so they are watering your plants and lawn not sidewalks and walkways
- **Wash only full loads** of laundry and dishes
- **Turn the faucet off** while brushing your teeth
- **Sweep your sidewalks and drive ways** instead of spraying them off with water






# Rebates and Landscape Audits

UP TO \$485 IN  
**rebates!**  
Clackamas  
river  
water  
providers  
are offering 6  
water conservation  
rebates\*

\* Up to \$485 in rebates available!




Make  
every DROP  
COUNT!




Clackamas River  
Water Providers

offering

**FREE**  
**Residential**  
**Landscape**  
**Water**  
**Audits**

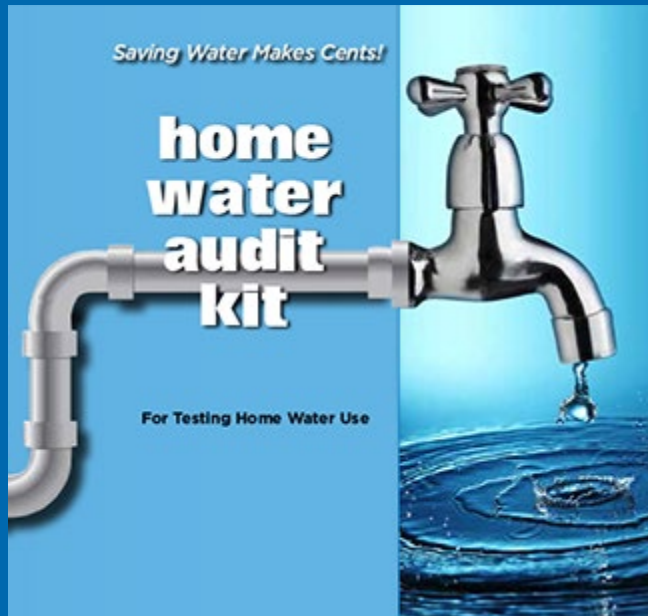


Assess your lawn, garden  
and irrigation systems





# Conservation Tools



- Leak Detection Tablets
- Toilet Displacement Bag
- Faucet Aerators
- Shower Heads
- Shower timers
- Watering Gauge
- Hose Nozzles

# Regional Water Providers Consortium (RWPC)

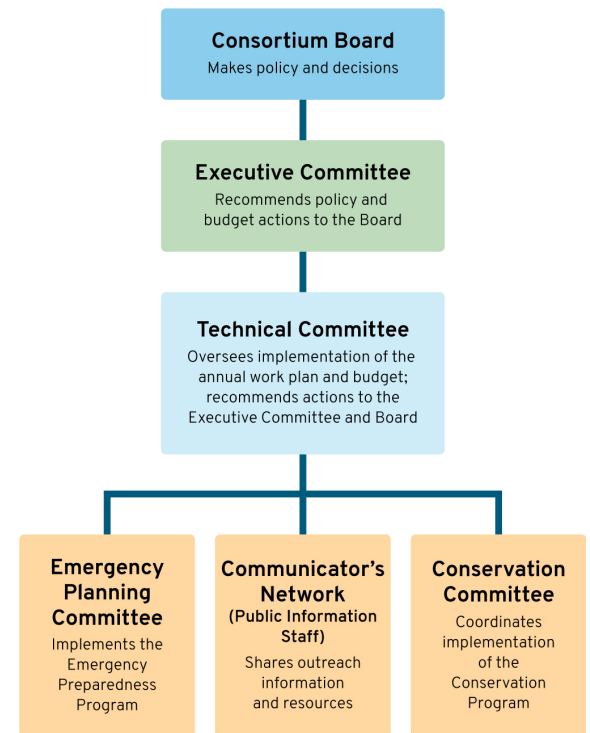
## Mission:

*To provide leadership in the planning, management, stewardship, and resiliency of drinking water in the Portland metropolitan region.*

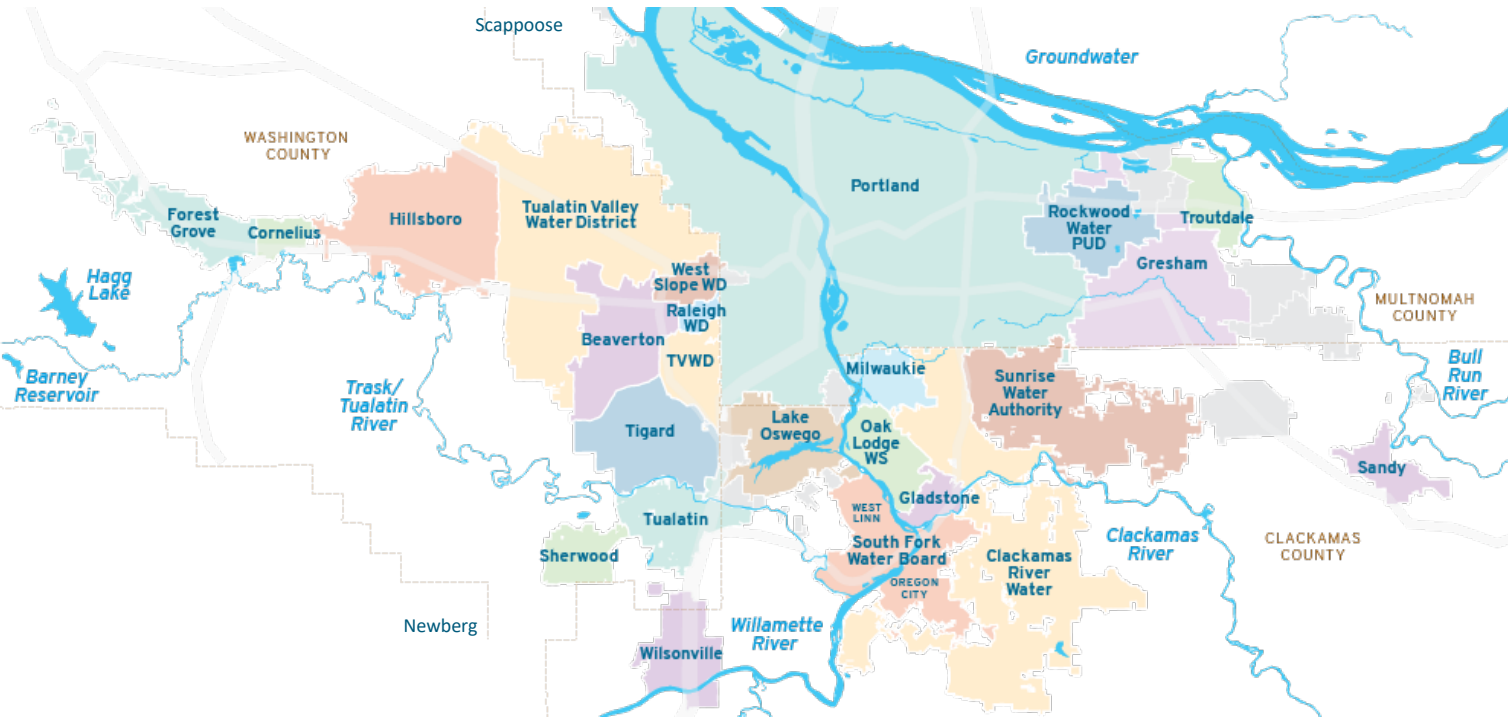
## Strategic Focus Areas:

- Meeting Water Needs
- Emergency Preparedness and Resiliency
- Strengthening Regional Partnerships

**Budget:** \$1.1 million



# RWPC Members



**25 WATER PROVIDER MEMBERS:**

- Beaverton, City of
- Clackamas River Water
- Cornelius, City of
- Forest Grove, City of
- Gladstone, City of
- Gresham, City of
- Hillsboro, City of
- Lake Oswego, City of
- Milwaukie, City of
- Newberg, City of
- Oak Lodge Water District
- Portland, City of
- Raleigh Water District
- Rockwood Water PUD
- Sandy, City of
- Scappoose, City of
- Sherwood, City of
- South Fork Water Board
- Sunrise Water Authority
- Tigard, City of
- Troutdale, City of
- Tualatin, City of
- Tualatin Valley Water District
- West Slope Water District
- Wilsonville, City of



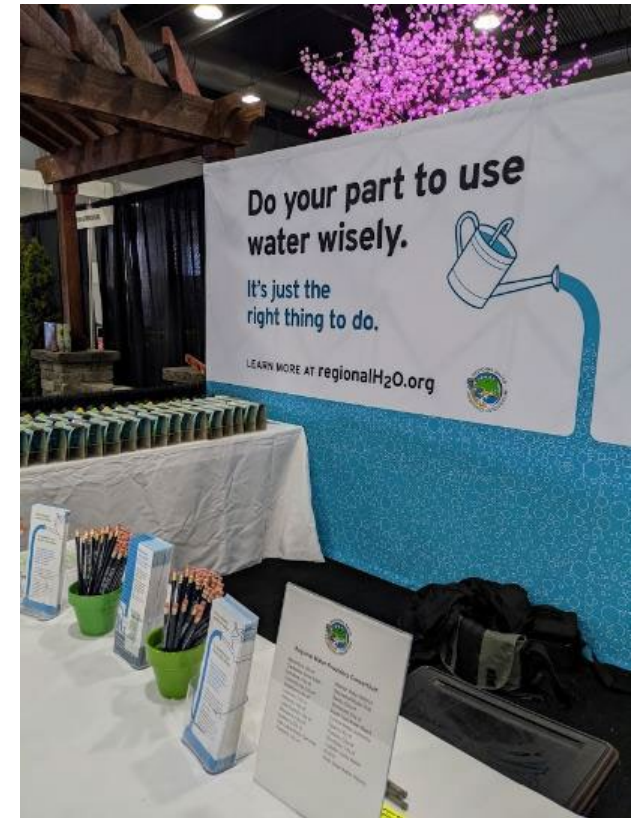
# RWPC Focus Area: Meeting Water Needs

Make best use of water resources by implementing:

- Multimedia campaigns focused on conservation, source water protection, and value of water
- School assembly program and co-sponsorship of the Children's Clean Water Festival
- Workshops and events
- Programs that meet state requirements for Water Management and Conservation Plans

Provide programs and resources that help members by:

- Increasing accessibility of messaging and resources to diverse audiences
- Creating print and digital resources focused on meeting diverse needs of public
- Preparing population estimates and forecasts for supply planning



# Conservation - Messaging

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## Media (TV, Radio, Streaming)

- RWPC works with media outlets on behalf of the region to produce and broadcast commercials, news segments and appearances on programs

## Print Media/Advertisements

- CRWP works with the local media on the “Fish on the Run, Irrigation Done” campaign
- RWPC will distribute press releases on regional water items and promote water conservation.
- RWPC also produces the signs on Tri-Met buses



## Social Media

- Social Media posts for CRW are coordinated internally
- Include information provided by RWPC, CRWP and messages developed by CRW.
- CRW is on Facebook, Twitter and Instagram



# Conservation – Educational Info

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## School Presentations

The CRWP coordinates with local schools to provide programs and resources at no cost to schools and teachers

Given the limitations on providing in school presentations, some are also offered virtually

Children's Clean Water Festival (Both CRWP and RWPC)



## Community Events

The CRWP provides conservation materials and information at various community events in the area



## Websites

A variety of education materials are available on the CRW, CRWP, and RWPC websites

The various website contain links to each other.



## Print materials

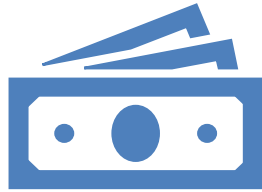
Flyers and brochures are displayed at the CRW office.

Print materials are available from CRWP and RWPC

CRWP produces the very popular Kid's Conservation Calendar that include artwork from local schools

# Conservation – Rebates and Tools

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## Rebates

The CRWP provides 7 types of rebates to CRW customers worth up to \$485.

Rebates are for water efficient Toilets, Washing Machines, Outdoor Water Monitor devices, and a variety of landscape related items



## Technical Assistance

The RWPC produces a “Weekly Watering Number” that helps guide people on how much to water each week throughout the watering season

How to videos - A variety of professionally produced “how to” videos are produced by the RWPC

Water Audit Kits – Kits with instructions and leak detection tools are provided by the CRWP

# Conclusion

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CRW promotes water conservation in a variety of ways.



Partnerships are used to help coordinate and broaden our opportunities to promote water conservation while being more effective in our efforts.