

## THANK YOU FOR JOINING US

## WateReuse Orange County Chapter Meeting

## WILL BEGIN SHORTLY

### Agenda

### Welcome: Scott Lynch, Chapter President

### Presentations

- -Pure Water Soquel
  - Melanie Mow Schumacher, General Manager, Soquel Creek Water District
  - Rebecca Gold Rubin, Public Outreach Coordinator, Soquel Creek Water District

### -WateReuse California Annual Update

Brenley McKenna, Managing Director, WateReuse California

### Standing Items

- -State Section Update
- -Regulatory Updates: DDW/OCHCA
- -Legislative and Regulatory Matters
- Officer Elections
- Conferences/Webcasts
- Other Announcements/Discussion Items
- 2025 Chapter Meetings
- Roundtable: What's Going On All



Adjournment

### Have a question?

### We will get to your questions after each presenter.







## **Pure Water Soquel**

Melanie Mow Schumacher General Manager

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Rebecca Gold Rubin Public Outreach Coordinator

## About Soquel Creek Water District

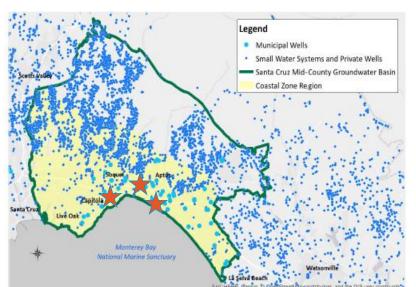
- California Special District, which is a local government agency that provides essential services
- Not a land use authority, that is the responsibility of Santa Cruz County and City of Capitola within our service area boundary
- 100% groundwater conveyed through 165+ miles of pipeline
- 16 active groundwater wells, approximately pump 2,900 acre-feet per year (~2.6 MGD)
- Population of 40,600 through approx. 16,000 service connections
- 48 Employees

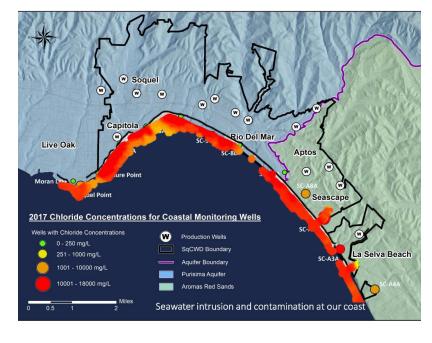




## Our Water Challenges

- Groundwater is the only source of water for SqCWD and much of the Santa Cruz Mid-County Region
- Mid-County Basin is identified by the State of California as 1 of 21 basins that are 'critically overdrafted' with a mandate to be sustainable by 2040
- 3. Contaminated with seawater intrusion along the Monterey Bay coastline





#### Bulletin 118 Groundwater Basins Subject to Critical Conditions of Overdraft – Update based on 2018 Final Basin Boundary Modifications



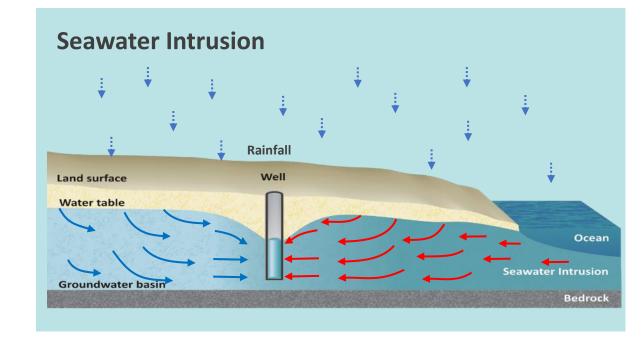
WATER RESOURCES

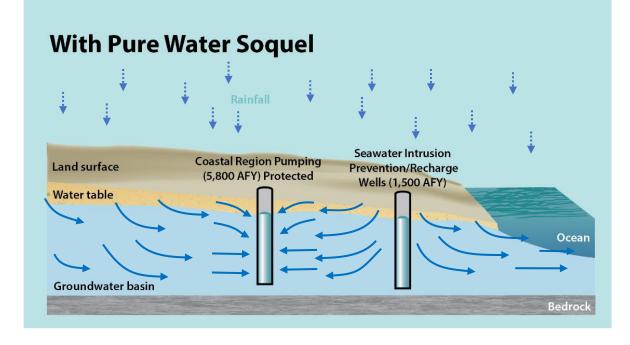


## **Our** Solution



- Will replenish the groundwater basin
- Will create a seawater intrusion barrier
- Will restore the Groundwater Basin to sustainable levels

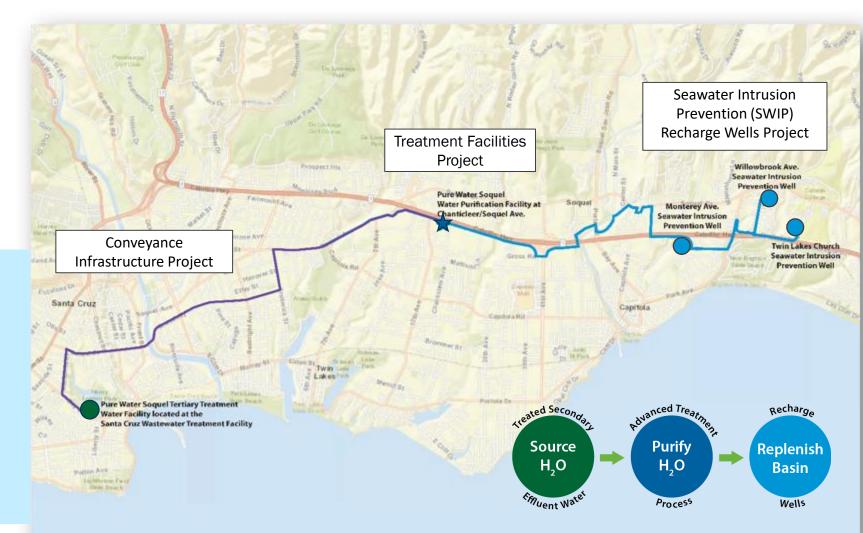




## **Project Overview** and Locations



- 0.3 MGD Tertiary non-Potable Recycled Water
- 1.3 MGD Advanced Purified Water
- Designed for Potential Future Expansion to meet Basin, Drought, and Climate Change Needs/Goals

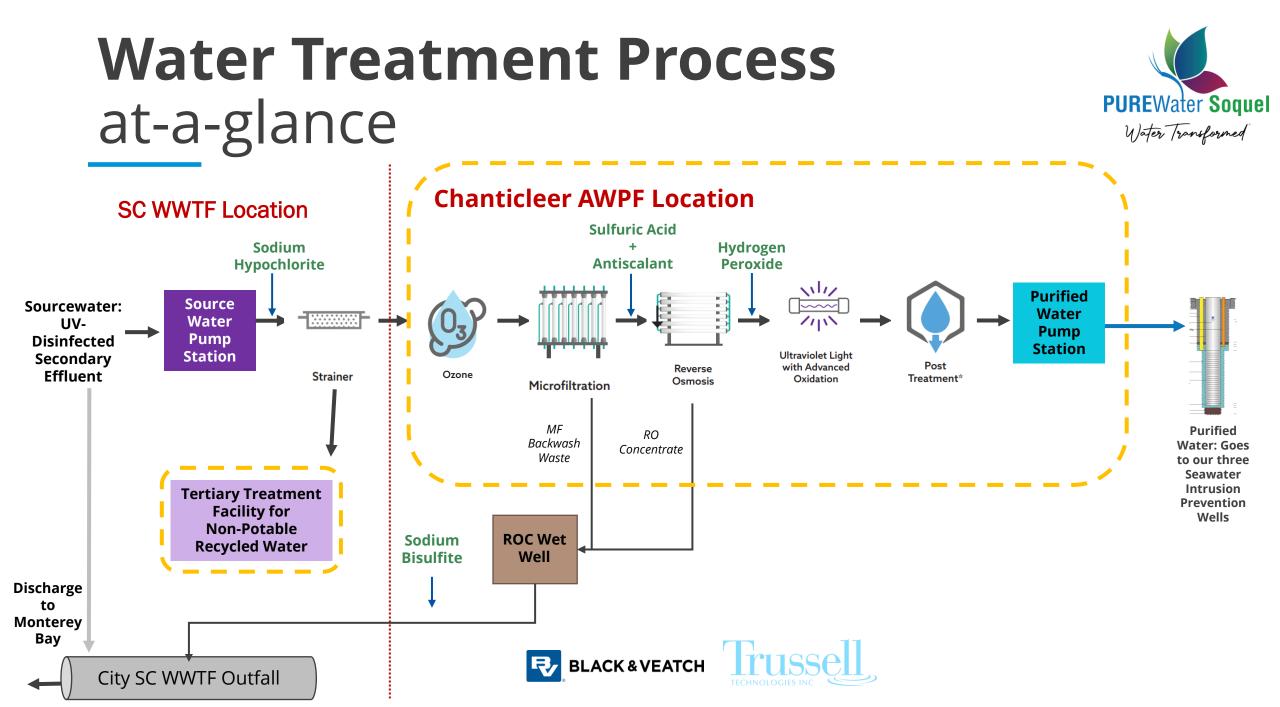


## **3 Primary** Projects

Project	Major Components	Design-Construction Method	Notice to Proceeds (NTPs)
Treatment Project	2- Treatment Facilities	Progressive Design-Build	Phase 1 (Design/GMP): March 2020 Phase 2 (Construction): November 2021
Conveyance Project	2- 16" Pipelines (~4 miles) 1- 14" Purified Pipeline (~4 miles)	Progressive Design-Build	Phase 1 (Design/GMP): February 2020 Phase 2 (Construction):March 2021
Seawater Intrusion Prevention Wells (SWIP)	3- SWIP Wells (injection wells)	Traditional Design-Bid- Build	SWIP Wells: July 2020 SWIP Equipping: July 2022
	8- Monitoring Wells	Traditional Design-Bid- Build	Mon Wells: August 2021



Design Build vs Design-Bid-Build



### **Construction Activities Update - Conveyance**





### **Construction Activities Update – Treatment**

### Santa Cruz WWTF



#### Source Water Pump Station











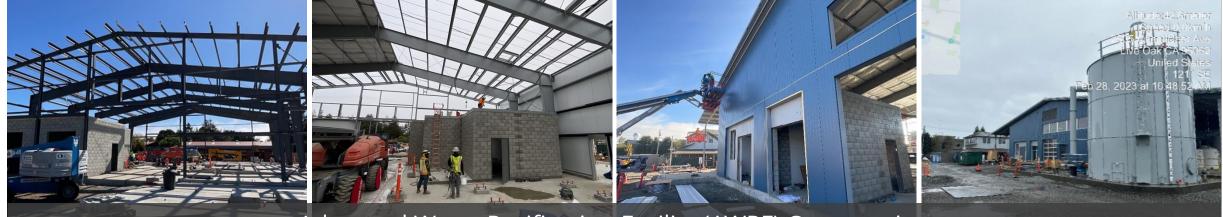
Tertiary Treatment Facility





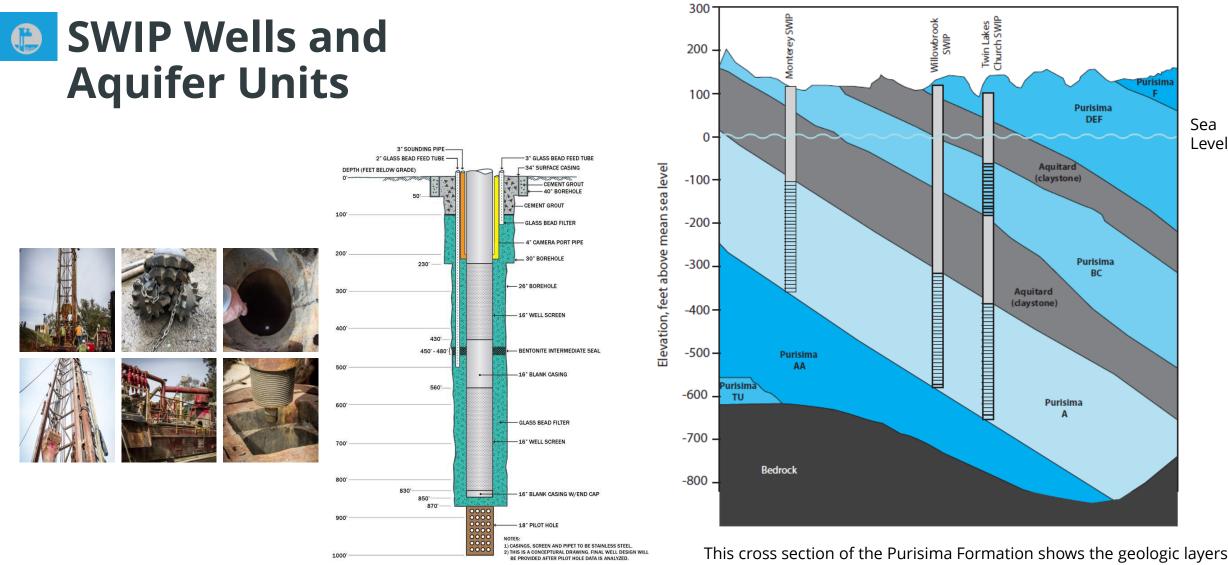
### **Construction Activities @ Chanticleer AWPF**

### **Chanticleer AWPF**



Advanced Water Purification Facility (AWPF) Construction





Twin Lakes Church SWIP Well, 850 feet deep

This cross section of the Purisima Formation shows the geologic layers where the Sea Water Intrusion Prevention (SWIP) wells will be screened. The screens are depicted as Purisima Formation is a 2,000-foot-thick body of sandstone alternating with layers of silstone and claystone. Think of it as a layer cake. Aquitards or claystone are layers that water cannot get through.



Groundbreaking: December 10, 2021



Ceremonial Ribbon Cutting: October 3, 2024



Pure Water Soquel Butterfly Mural for Group pics and selfies



Releasing of Butterflies at Ribbon Cutting Event







Pure Water Kombucha with OCWD Purified Water



UV-AOP Challenge Test – December 2-6, 2024 (7pm testing)



### Current and Upcoming Project Completion Activities

- UV-AOP Challenge Test
- Acceptance Test
- DDW Site Inspection
- Acceptance Letter to Replenish Groundwater Basin with Purified Water
- Operations Optimization Plan
- Tracer Study

## Agency Collaboration & Community Support

I support the efforts of the District in evaluating and pursuing an Advanced Water

Provide us your name to be added to our official list of supporters. You will occasionally receive emails with

signature: Tarenttibble John

Purification Project.

program update



### **State and Federal Investment and Support**









## **Evolution of** Funding Portfolio

	2018 Planning Costs Class 4/5 Estimate No Grants or Low Interest Loans	2023 Actual Costs with Grants and Low-Interest Loans	
Project Cost	\$90,000,000	\$195,000,000*	
Interest Payments	+\$47,500,000	+\$22,176,084	
Average Interest Rate	@ 3.0%	@ 1.34%	
Grants		- \$ 95,250,000	
Total Adjusted Cost	\$137,500,000	\$121,950,000	
udes construction contingency costs	Grants from: Water Boards 	Low Interest loans from: <b>EXERCISE</b> <b>Water Boards</b>	

## Outreach

- One on One Meeting with leaders in your community
  - Elected Officials
  - Environmental
  - Religious
  - Health
  - Education
  - Community Groups (Chambers, HOAs)
- Support Letters
- Public Meetings
- Tours Of other facilities and Construction
- Fun Community Events
- Demo Sites & Mobile Education Units to taste the water





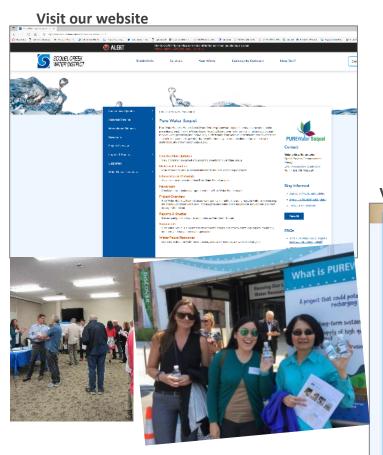


## **Mobile** Education





## More Outreach





#### Visit Our On-Line Library

Supporters



Videos about water Use and Rouse Awateriouse Houndation

Sign-up for Email Updates



Please fill out the form to join the Pure Water Soquel mailing & eblast list. Please choose what aspects of the project you would like to keep updated on.

Privacy Notice:

The Pure Water Soquel Project will not sell or give your email or mailing address to any third party. We will use your email and mailing address only to provide you with information that is relevant to the Pure Water Soquel Project.

Last Name			
Address			
Street Address			
Address Line 2			
City	State/Prov/Region	Postal/Zip	
USA			

#### Purified Water Center





#### Schedule a Presentation

Home > Community Outreach > Outreach > Speakers Bureau

#### Speakers Bureau

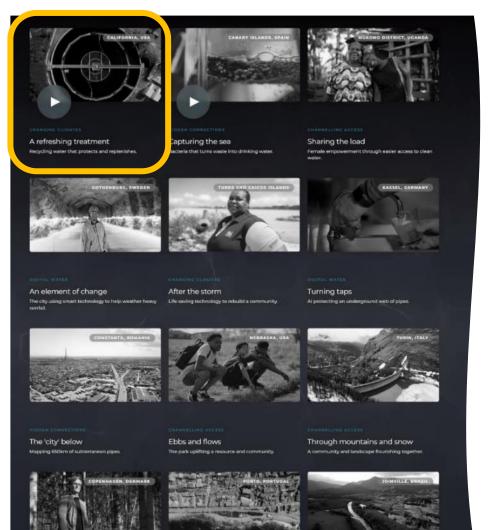
Do you have an upcoming meeting where your members may be interested in learning about our midcounty water issues such as groundwater, water reliability, water conservation, and long-term actions towards sustainability? We are available to speak to small and large groups. We regularly present to:

- Chamber of Commerces
- Church groups
- Community groups
- HOAs
- Kiwanis clubs
- Neighborhoods
- Non Profit organizations
- Professional organizations
- Rotary clubs
- Schools

# **One of 16 Projects Featured** in the International Water Association 'Beneath the Surface' Film Series

#### Santa Cruz County, California, USA

Tenerife and Madrid, Spain Mukono District, Uganda Gothenburg, Sweden Turks & Caicos Kassel, Germany Constanta City, Romania Omaha, Nebraska, USA Turin, Italy Copenhagen, Denmark Porto, Portugal Joinville, Brazil Switzerland and The Netherlands Kingston, Jamaica Polokwane, South Africa Glasgow, Scotland





https://www.bbc.com/story works/specials/beneaththe-surface/



## Lessons Learned

- 1) Know your Why. Continue to inform key decision makers.
- 2) Develop a Strong and Resilient Team. You'll need it.
- 3) Be Nimble and Agile! Plan for Contingencies. Things do not always go as planned. No matter how good you think you are.
- 4) Plan Way Ahead and Incorporate DDW/RWQCB Review Times and your responses to comment times. Multiply it by 2.
- 5) Understand your procurement methods. Risk Transfer, Performance Criteria, GMP. Funding Requirements.
- 6) Outreach and Communication is essential. Hire dedicated staff.
- 7) Celebrate Project Milestones (even the babies!)
- 8) Reach out to others and network within WateReuse. So helpful!
- 9) Always have the mindset to learn.
- 10) Work-life balance, have fun, and surround yourself with smarter and more passionate people than you. It's infectious. ☺





## **Thank You**



Contact Information: Melanie Mow Schumacher melanies@soquelcreekwater.org Contact Information: Becca Gold Rubin beccar@soquelcreekwater.org



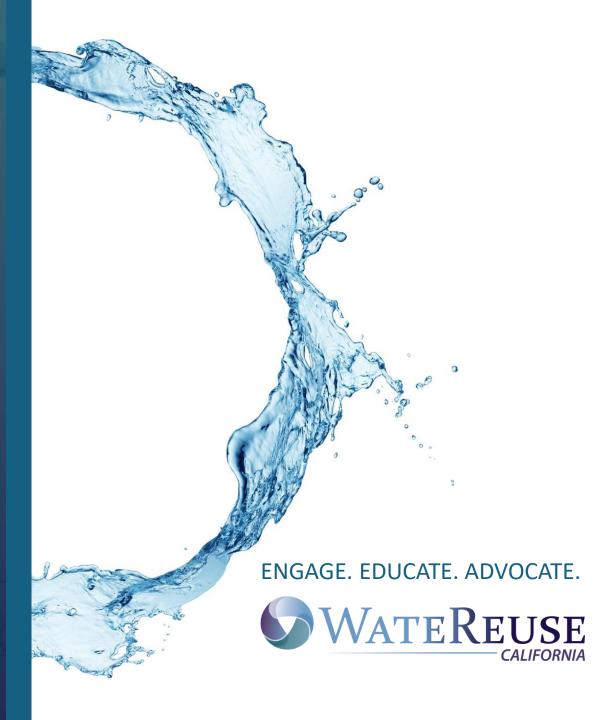




### WRCA UPDATE

Brenley McKenna Managing Director

November 21, 2024



### 2024 WRCA ANNUAL CONFERENCE





Membership Members: 221 New Members: 9 Non-renewals: 22 Renewal Rate: 94% Organizational WRCA Staff: 3	Advocacy Efforts: Funding General Fund: _\$73.5M Proposition 4: \$386.25 M <b>~\$460M</b> *	RegulatoryIOALIIDirect Potable ReuseRegulations: 10/1/24Making Conservation ACalifornia Way of Life	OutreachNewsletters: 10Subscribers: 2,309Average Open Rate: 21%Most Popular Topic:DIRECT POTABLE REUSEDIRECT POTABLE REUSE	WATER USE
Contractors: 6	Member Engag Chapters: 7	rement	Output of the set o	
Strategic Planning 90%	<b>1,462</b> Individuals Research Investment	<b>164</b> Individuals	Budget: as of 9/30	
	CalVal: Leveraged to \$300,000		% Revenue % Expe	nditures

## Fourth Quarter Focus

Long-term Planning, Logistics, Organizational



#### FY 2025 Budget

Planning for 2025

#### **Strategic Planning**

Working group meetings, draft, and revisions



#### **Building Community**

Active role with Ag Reuse, chapter meetings



#### Workshop Execution

**Reuse Implementation Workshop** 



#### Identify Legislative Priorities

In-person planning session with Leg Reg Committee



#### **Conference Planning**

San Diego, CA



### Legislative & Regulatory Updates



### Legislative & Regulatory Update: 2024 Summary

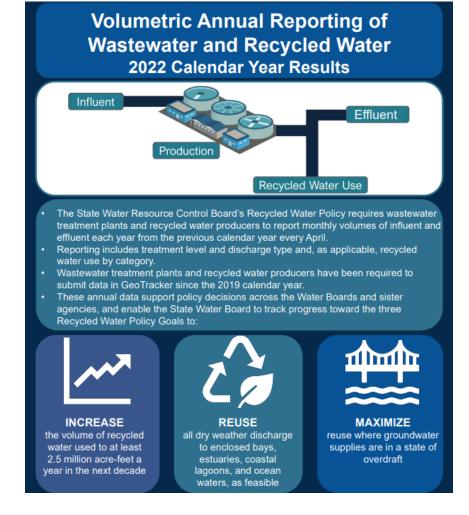
- Direct Potable Reuse Regulations
- Making Conservation a California Way of Life
- Volumetric Annual Report
- Recycled Water Permitting Fees
- Proposition 4
- Clean Water State Revolving Funds

Volumetric Annual Report (VAR) of Wastewater and Recycled Water



### Volumetric Annual Report

The State Water Resource Control Board's Recycled Water Policy requires wastewater treatment plants and recycled water producers to report monthly volumes of influent and effluent each year from the previous calendar year every April



### Regulations for Direct Potable Reuse



# DPR Regulations went into effect on October 1, 2024



## **DPR Member Tool Kit**

- WRCA press release:
   <u>California's Direct Potable</u>
   <u>Reuse Regulations Flow into</u>
   <u>Action</u>
- <u>Two pager</u>
- Quotes document: <u>WateReuse California</u> <u>Members react</u>



#### CALIFORNIA'S DIRECT POTABLE REUSE REGULATIONS: MAJOR PROVISIONS

The Direct Potable Reuse (DPR) regulations, adopted unanimously in December 2023 by the State Water Resources Control Board (Water Board), are extremely protective of public health and are among the most rigorous potable reuse regulations in the nation. The regulations, which became effective October 1, 2024, were developed following decades of research and studies by experts. The following provides a summary of some of the major provisions of the DPR regulations. For a full understanding of the DPR regularements, WateReuse California recommends consulting the text of the regulation.

#### NEW ORGANIZATIONAL STRUCTURE

The DPR regulations require a single agency to be ultimately responsible for compliance with the regulations. This Direct Potable Reuse Responsible Agency (DiPRRA) must be a public water system, but a DPR project may include other Partner Agencies such as those providing wastewater collection, wastewater treatment, or other public water systems.

#### HIGHEST LEVEL OPERATOR CERTIFICATION REQUIRED WITH 24/7 STAFFING

Intensive monitoring and oversight will be required for the operation of DPR projects. Therefore, the regulations require the highest level of drinking water treatment certification (T5) for the chief operator that oversees the DPR advanced purification processes. Furthermore, the chief and shift operator at the advance water treatment facility must hold AWT5 and AWT3 levels of the new Advanced Water Treatment Operator certification, respectively. The shift operators at the facility must also obtain at least a Grade 3 certification. Either the chief or shift operator is required to be on-site at all times—24/7—unless in the future it can be demonstrated that an equivalent degree of operational oversight and reliability can be maintained with less than 24/7 staffing.



FOR MORE INFORMATION Brenley McKenna Managing Director, WateReuse California bmckenna@watereuse.org



Rulemaking to Make Conservation a California Way of Life



# State Water Resources Control Board Slide:

Timolino

#### Where we are in the formal rulemaking process



California Water Boards

# Regulations approved by OAL on October 22, 2024

- State Water Resources Control Board (SWRCB) received approval from the Office of Administrative Law (OAL) for the Making Conservation a California Way of Life regulation
- Regulation effective date: 1/1/2025
- Final text of the <u>Regulation to Make Conservation a California Way</u> of Life
- Urban Retail Water Suppliers are required to submit their Urban Water Use Objective <u>Reporting Form [and guidance documents]</u> to the SWRCB by January 1, 2025

#### WRCA Laser Focused on Reuse Issues

- Recycled Water Landscape Irrigation: Maintain 1.0 ET
  - Develop a High TDS Variance for Landscape Irrigation
- Ensure potable reuse bonus incentive for all types of Potable Reuse
- For impacts from lowered indoor water use -- include process for addressing negative impacts to wastewater collection, treatment and reuse systems

#### Recycled Water Permit Fees



## Recycled Water Permit Fees: Background

- As a result of:
  - <u>State Fiscal Year 2023-24 budget change proposal</u> "BCP" and
  - Public resources budget trailer bill (<u>SB 122</u>, statutes of 2023)
- The State Water Resources Control Board now has authority to assess fees for recycled water permits

#### Recycled Water Permit Fees: Purpose and Initial Implementation

- Per BCP, fees intended to cover 15 Regional Board staff for permitting recycled water projects
  - Page 1: "allowing the Water Boards to effectively carry out recycled water permitting responsibilities"
- 13 of 15 Regional Board positions, as well as 2 positions for desalination and 4 positions for Water Supply Strategy, already funded in Fiscal Year 2023-24
  - 2.7% increase in all existing Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit fees
  - These fee increases were already invoiced to projects last year

## Path to path forward

	State Board Fee Unit's Guiding Principles		WateReuse California Guiding Principles
•	Remain Revenue Neutral	•	Not be one-size-fits-all
•	Be implementable statewide	•	Increase proposals be transparent
•	Minimize yearly swings		and capped
•	Spread the fees broadly	•	Avoid duplicative charges
•	Based on relative size - actual flow	•	Fee should be fair
	from	•	State Board provide meaningful
	Volumetric Annual Report (VAR)		stakeholder engagement
•	No "fee for service"		

#### Approved Option [formerly known as "Option F"]: Fee by Type of Recycled Water Produced and Distribution/Use

- Continuing to fund the new Personnel Years (PYs) via the existing WDR Fees and NPDES Fees, with an
  additional surcharge added on recycled water projects
- Fee would distinguish between potable and non-potable recycled water produced
- Would be assessed as a surcharge for:
  - National Pollutant Discharge Elimination System (NPDES) Wastewater (WW) permits and
  - Waste Discharge Requirements (WDRs) that contain recycling requirements
- For projects that produce *both* potable and non-potable water under a single permit, the higher potable surcharge would be assessed
- Fee will likely increase annually by 4-6% to keep up with inflationary increases
- Small fee also assessed on Water Recycling Requirements (WRRs) for recycled water distribution/use only

#### State Board slide on "Option F": Fee by Type of Recycled Water Produced and Distribution/Use

Recycled Water Permits Fee Option

#### Option F: Fee by Type of Recycled Water Produced and Distribution/Use

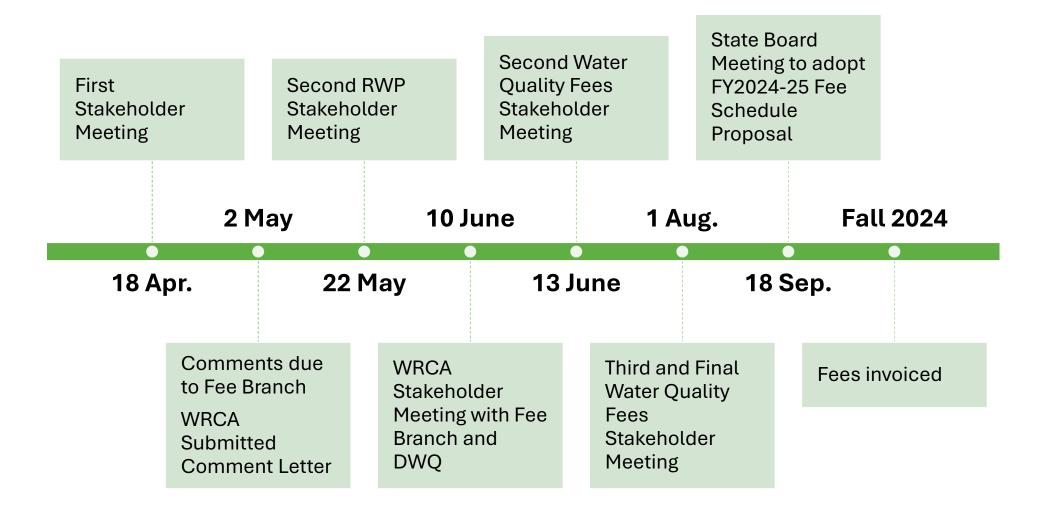
For facilities producing recycled water consistent with California Code of Regulations, Title 22, a fee would be assessed based on the type of recycled water produced. The fee would distinguish between potable and non-potable recycled water produced and would be assessed as a surcharge for National Pollutant Discharge Elimination System (NPDES) Wastewater (WW) permits and Waste Discharge Requirements (WDRs) that contain recycling requirements and as a flat fee for Water Recycling Requirements (WRRs).

For permits for the distribution or use of recycled water (exclusive of production), the fee would be a flat fee.

Recycled Water Production	Potable Fee	Non-Potable Fee
Permits issued for recycled water production	\$16,000	\$2,800

Recycled Water Distribution and/or Use	Fee
Permits issued for recycled water distribution and/or use only	\$1,500

#### Recycled Water Permit Fees – Timeline



#### Proposition 4: Climate Resiliency Bond



## **Proposition 4**

- WRCA Position: Support
  - August 9: WRCA Legislative-Regulatory Committee makes recommendation to support
  - September 15: This recommendation went to our full WRCA Board of Trustees, and they approved the position to support
- November Ballot
  - Authorizes \$10 billion in general obligation bonds for water, wildfire prevention, and protection of communities and lands. Requires annual audits.
  - Official Voter Information Guide

#### Clean Water State Revolving Fund



## **Clean Water State Revolving Fund**

- State Water Resources Control Board (SWRCB) Division of Financial Assistance (DFA) recently released proposed revisions to the Clean Water State Revolving Fund Policy, or "Policy Amendments."
- <u>CWSRF Policy Notice</u>
- CWSRF <u>Webpage</u>

## Summary of the proposed changes

- Change One: Primary Score
- Change Two: Replace Secondary Score with Affordability Score
- Change Three: Readiness Score
- Other significant proposed changes:
  - Deputy Director Authority to remove a project when applicant fails to meet deadlines established in Intended Use Plan.
  - Eligible Projects:
    - Cost of purchasing a wastewater system
    - Septic decommissioning and private laterals

## **Standing Items**

- State Section Update: Joone Lopez, MNWD
- Legislative and Regulatory Updates
  - -DDW
  - -OCHCA

#### Funding Opportunities

—<u>https://watereuse.org/wp-content/uploads/2024/09/Summary-of-Funding-Opportunities-as-of-10-01-24.pdf</u>



## Nominations and Elections for Chapter Officers

#### Chapter Officers:

- -President
- -Vice-President
- -Secretary/Treasurer
- -Chapter Trustee
- -Immediate Past President

#### ► Eligibility

- -Member of the Association
- -Live or Work in Orange County

#### ►1-Year Term



## Proposed Slate for 2025

President – Hannah Ford/El Toro Water District

- Vice-President Ben Smith/Orange County Water District
- Secretary/Treasurer Annaliese Torres/Rincon Consultants
- Chapter Trustee Joone Lopez/Moulton Niguel Water District
- Immediate Past President Scott Lynch/Jurupa Community Services District



## Thank you to our outgoing officers!

Kraig Erickson, Woodard & Curran Secretary/Treasurer

Scott Lynch, JSCD President, former VP and Secretary/Treasurer







## Upcoming Conferences, Webcasts & Meetings

- 2025 WateReuse Nevada Conference | Jan. 27 | Reno, NV
- 2025 WaterReuse Symposium | March 16 19 | Tampa, FL
  - Early Bird Registration ends *December* 17, 2024
- 2025 WateReuse Colorado Conference | May 5 | Denver, CO
- 2025 WateReuse California Conference | Sep. 7-9 | San Diego, CA





Other Announcements/Discussion Items

- Meeting Hosts for 2025
  - Feb TBD
    Apr TBD
    Jun TBD

#### ➢ Roundtable: What's going on?



#### **THANK YOU**

#### **Meeting Adjourned**

