

Chapter Meeting

November 15, 2022

Olivenhain Municipal Water District



Agenda

- Welcome to OMWD
- Chapter Business
 - Regulatory & Legislative Update
 - Funding Update
 - Upcoming Events
 - Happy Hour Logistics
 - Officer Elections
- Regulatory Updates
 - San Diego San Diego County Dept of Environmental Health & Quality
 - San Diego Regional Water Quality Control Board
 - WaterReuse CA
- Tour of OMWD Headquarters
- Happy hour

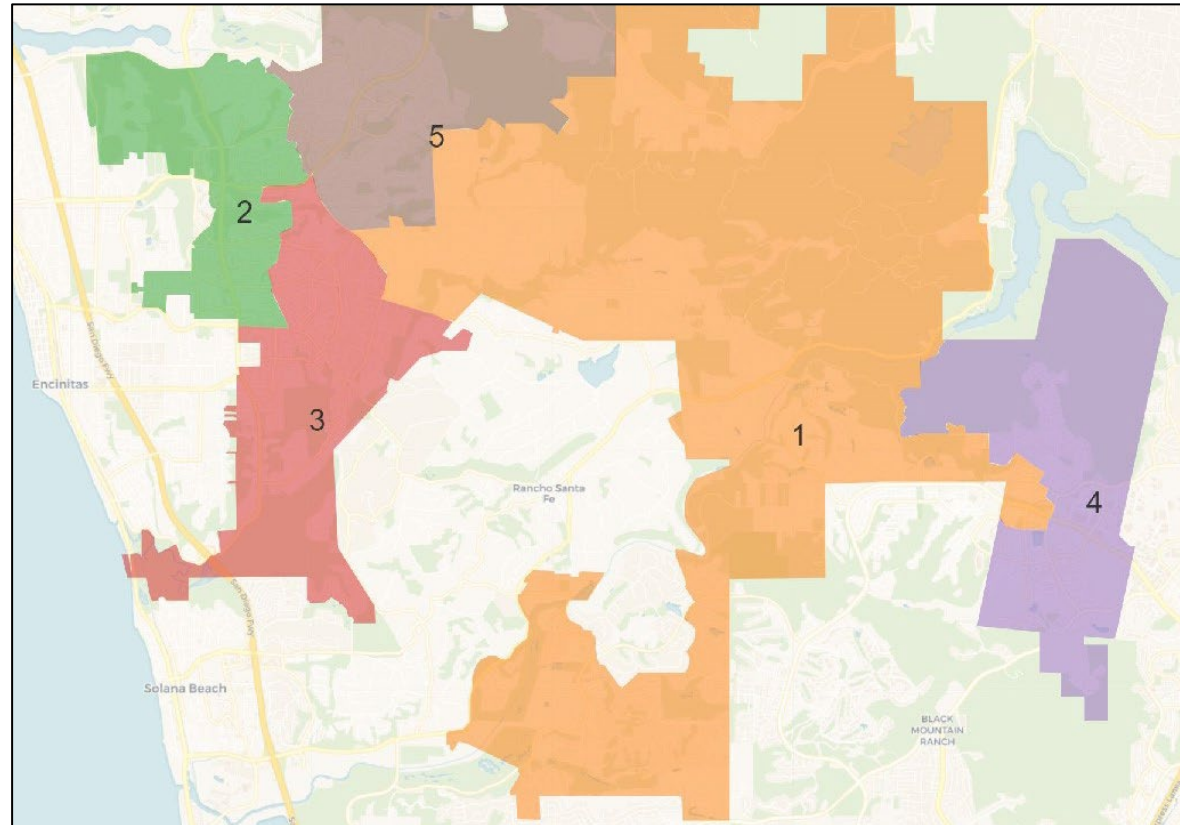
Welcome to Olivenhain Municipal Water District

Joey Randall, Assistant General Manager

Olivenhain Municipal Water District

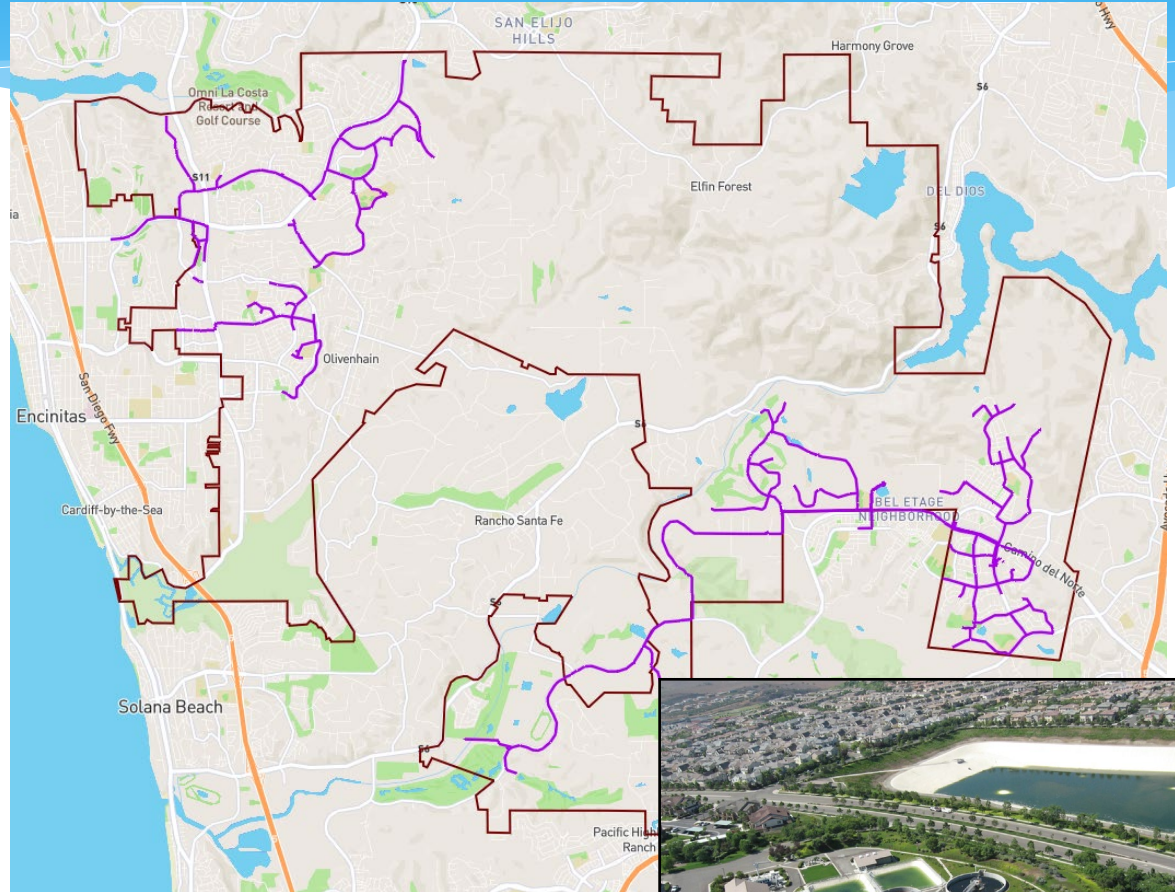
Who, What, Where

- Incorporated in 1959
- Provide water, wastewater services, recycled water, hydroelectricity, and the operation of Elfin Forest Recreational Reserve
- 48 square miles with 87,000 customers
- Five director divisions



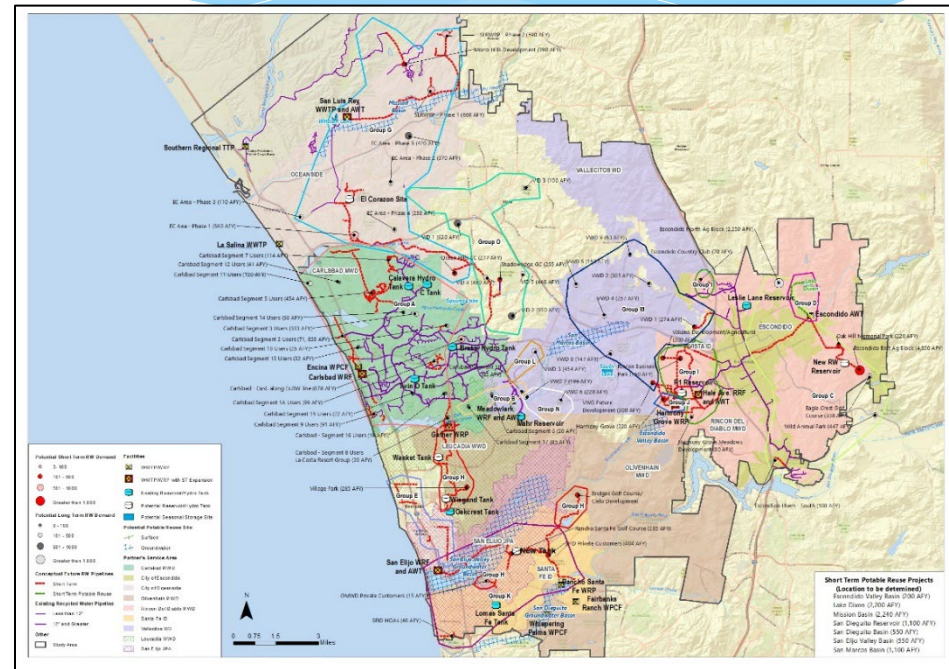
OMWD's Recycled Water Program

- **Northwest Quadrant**
 - Vallecitos Connection
 - SEJPA Connection
- **Southeast Quadrant**
 - 4S Ranch Water Reclamation Facility
 - City of San Diego Connections
 - Rancho Santa Fe CSD
- **2021 Numbers**
 - 2,700 AF provided to 330 recycled customers
 - 10% of supply



OMWD's Recycled Water Program

- Continue expansion of non-potable efforts and connecting customers
- Continue participation with North San Diego Water Reuse Coalition
- Continue support of WaterReuse
 - General Manager, Kim Thorner, is Secretary of the WaterReuse CA Board of Trustees and was Recycled Water Advocated of the Year in 2015
 - Agency of the Year in 2019 and 2005
 - Our customer, SD County Parks & Rec, was Customer of the Year in 2020
 - Outreach and Education Excellence Award in 2022
 - Engineering Manager, Lindsey Stephenson, is President Elect of chapter



Water for People Fundraiser


Give the Gift of Life
and support



water for people
SAN DIEGO COMMITTEE



Gift Wrapped “Wonderful” Pistachios

\$23 from every \$25 donation will go toward Water For People's efforts to improve drinking water resources, sanitation facilities, and health & hygiene education programs in developing countries.



Nut Headquarters

4809 A Clairemont Drive, San Diego

Mon-Fri, Noon-1PM (Nov 15th - Dec 10th, except Thanksgiving)

Suggested Donation: \$25.00 each

Cash (preferred) or Check, payable to CA/NV AWWA-Water For People

For additional information, please contact:

Name: Bill Pearce

Email: billpearce3566@gmail.com

Chapter Business

WateReuse San Diego Officers

Regulatory & Legislative Update

Bills

- SB 1157 (Hertzberg) Indoor Water Use Standard - passed
- AB 2247 (Bloom) PFAS Disclosure - vetoed

CERCLA Designation for PFOA & PFAS

- Liability and cost concerns
- WaterReuse comments
 - Water/Wastewater exemption
 - Cost assessment
 - Further clarification
 - Additional research on PFAS control and destruction techniques
- Final rule August 2023



Funding Update



- DWR Sustainable Groundwater Management Grants, Round 2 – emphasis on groundwater recharge projects, including potable reuse – applications due December 16, 2021
 - <https://water.ca.gov/sgmgrants>
- DWR Community Drought Relief Grants – emphasis on potable water conservation activities, including recycled water conversions – applications due January 21, 2023
 - <https://water.ca.gov/Water-Basics/Drought/Drought-Funding/Urban-Drought-Grant>

Upcoming events

Chapter Events

- New officers will meet soon to start planning
- Chapter events will be announced in near future

2023 WateReuse Symposium

- March 5 – 8, 2023
- Marriott Marquis in Atlanta, Georgia

2023 WateReuse California

- November 5-7, 2023 in Indian Wells, CA

IN COLLABORATION WITH
THE WATER RESEARCH
FOUNDATION

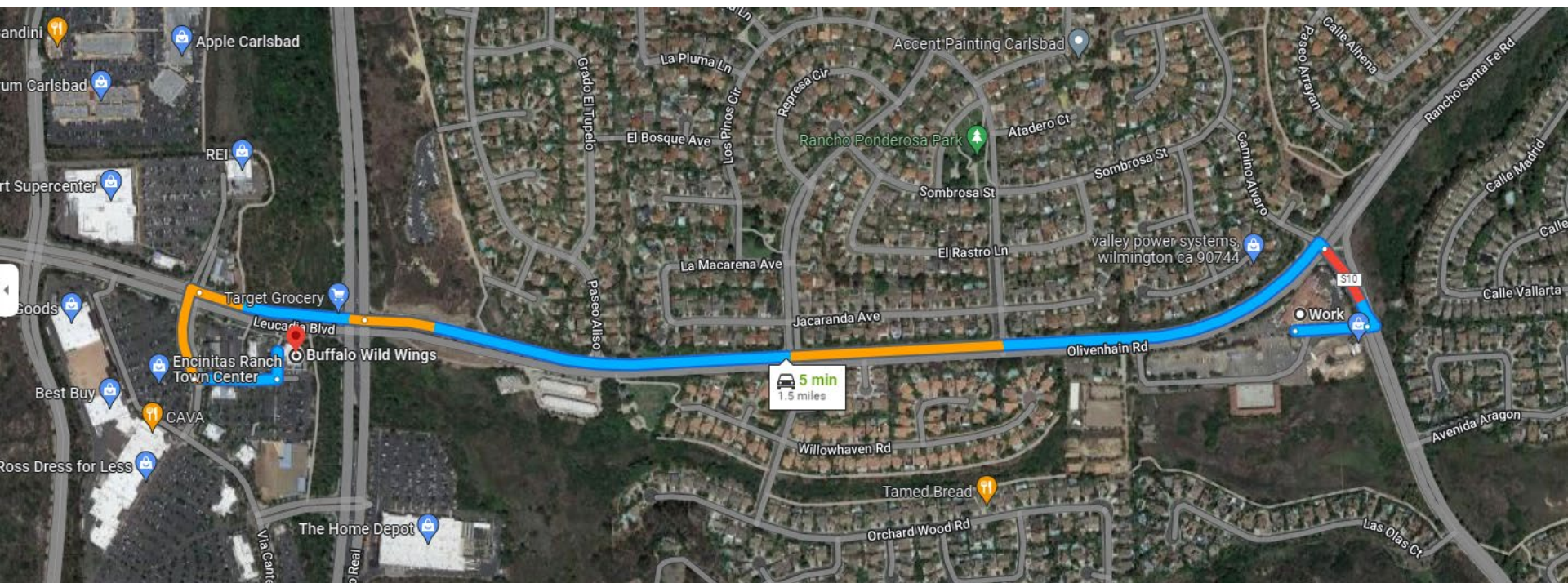
 **WATERREUSE[®]**
2023 SYMPOSIUM
MARCH 5-8, 2023 • MARRIOTT MARQUIS ATLANTA
ATLANTA, GA

REIMAGINING
WATER
TOGETHER

Please join us for happy hour!

- Buffalo Wild Wings, 1068 N El Camino Real
- Appetizers and first round of drinks will be provided!

**Brown AND
Caldwell**



Chapter Officer Elections

WateReuse San Diego Officers

2023 Officers

Past-President



Jocelyn Lu, PE

- ✓ Brown & Caldwell, Associate Engineer
- ✓ UC San Diego
- ✓ WateReuse-SD for 7+ years, past 6 as Officer

President



Lindsey Stephenson, PE

- ✓ Olivenhain MWD, Engineering Manager
- ✓ UC Davis and University of Florida
- ✓ WateReuse-SD for 5+ years

President-Elect (nominated)



Rosalyn Prickett

- ✓ Rincon Consultants, Director of Water Resources Planning
- ✓ Cal Poly SLO and UC Berkeley
- ✓ WateReuse-SD for 10+ years, past 2 as Secretary

2023 Officers (cont'd)

Treasurer (nominated, 2-yr term)



Saeid Afshar

- ✓ City of San Diego, Sr. Backflow & Cross Connection Control Specialist
- ✓ Ferdowsi University / Iran
- ✓ 18 years' Experience in Petrochemical Industry and Recycled Water

Secretary (nominated, 2-yr term)



Jesica Cleaver

- ✓ San Diego County Water Authority, Water Resources Specialist
- ✓ Humboldt State University
- ✓ 10 years' Experience in administration and water resources for public agencies
- ✓ Served as WRSD Editor for past year

2023 Officers (cont'd)

Director, Membership Outreach &
Public Relations (2nd Year of 2-yr term)



Megan Drummy

- ✓ Hazen, Communications Manager
- ✓ UC Irvine
- ✓ 10+ years leading San Diego Pure Water outreach program

Newsletter Editor
(appointed)



Mitch Bartolo, PE

- ✓ Trussell Technologies, Senior Engineer
- ✓ UC Berkeley and University of Texas-Austin
- ✓ 6+ years hands-on experience with advanced treatment processes, design, and recycled water permitting



County of San Diego Department of Environmental Health & Quality

RECYCLED WATER PROGRAM

JENNA LEPORE AND JAMELLE MCCULLOUGH

2022 – Year End Metrics

- ▶ 52 New Recycled Water Projects
- ▶ 230 Site Inspections
- ▶ Data Base Upgrades



RECYCLED WATER PURVEYORS

CITY OF SAN DIEGO

PADRE DAM

OLIVENHAIN MWD

CAMP PENDLETON

RAMONA MWD

SANTA FE IRRIGATION DISTRICT

SAN DIEGO ZOO SAFARI PARK

CITY OF CARLSBAD

CITY OF POWAY

CITY OF OCEANSIDE

SAN DIEGUITO

CITY OF ESCONDIDO

CITY OF DEL MAR

RAINBOW

OTAY WATER DISTRICT

SAN ELIJO JPA

VALLEY CENTER MWD

RINCON DEL DIABLO

FALLBROOK PUD

SYLPOE

SKYLINE RANCH COUNTRY CLUB



San Ysidro Land Port of Entry - SYLPOE

- ▶ 8 dual plumbed buildings receiving recycled water
- ▶ Northbound and Southbound canopy areas, primary booths, and secondary areas with recycled water hose bibbs used for wash-down
- ▶ Multiple cooling towers
- ▶ Landscaped areas throughout the property.



U.S. Customs and
Border Protection

San Ysidro Land Port of Entry
San Ysidro, California

UNITED STATES OF AMERICA

BARACK OBAMA PRESIDENT

GENERAL SERVICES ADMINISTRATION

2014





Onsite Treatment and Reuse of Nonpotable Water

► www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/onsite_nonpotable_reuse_regulations.html

► www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/2022/otnwsfaq.pdf



Questions?

Contact us:

Jamelle.Mccullough@sdcounty.ca.gov

Jenna.Lepore@sdcounty.ca.gov



WaterReuse San Diego – Regulatory Roundtable

SAN DIEGO WATER BOARD Recycled Water Staff:

Ben Neill – Senior Water Resource Control Engineer
ben.neill@waterboards.ca.gov, (619) 521-3376

Brandon Bushnell – Water Resource Control Engineer
brandon.bushnell@waterboards.ca.gov, (619) 521-8044

Mahsa Izadmehr, PhD – Water Resource Control Engineer
mahsa.izadmehr@waterboards.ca.gov, (619) 521-8048

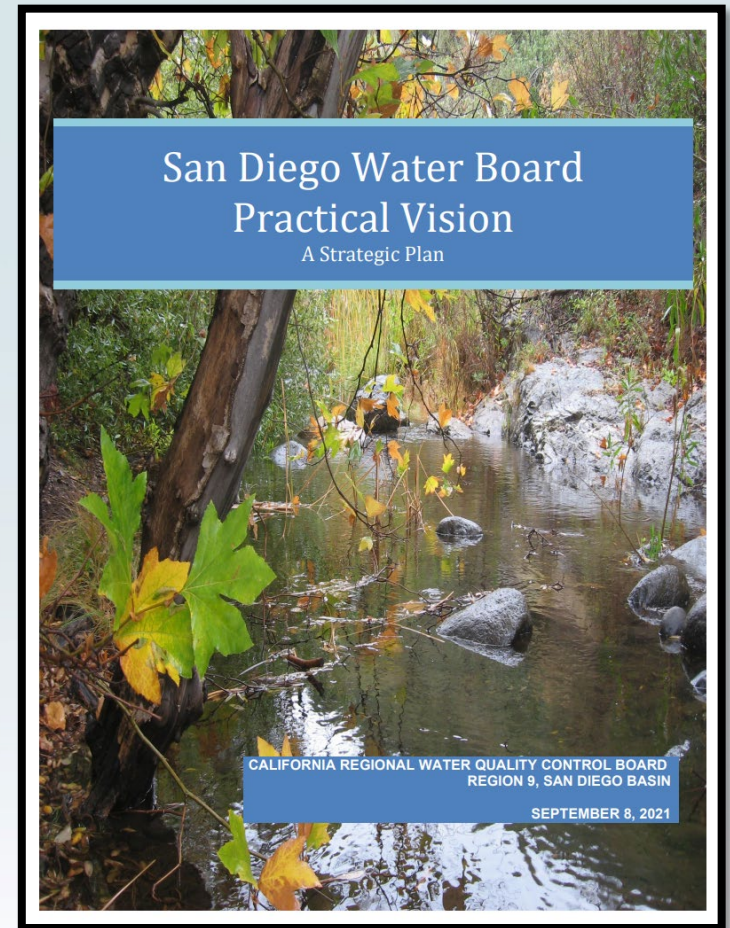


San Diego Water Board Practical Vision

Strategize to Achieve Resilient Local Water Supply

Support a sufficient, diverse, and sustainable local water supply for the San Diego Region that, combined with conservation and water reuse, minimizes dependence on imported water while maintaining and improving water quality.

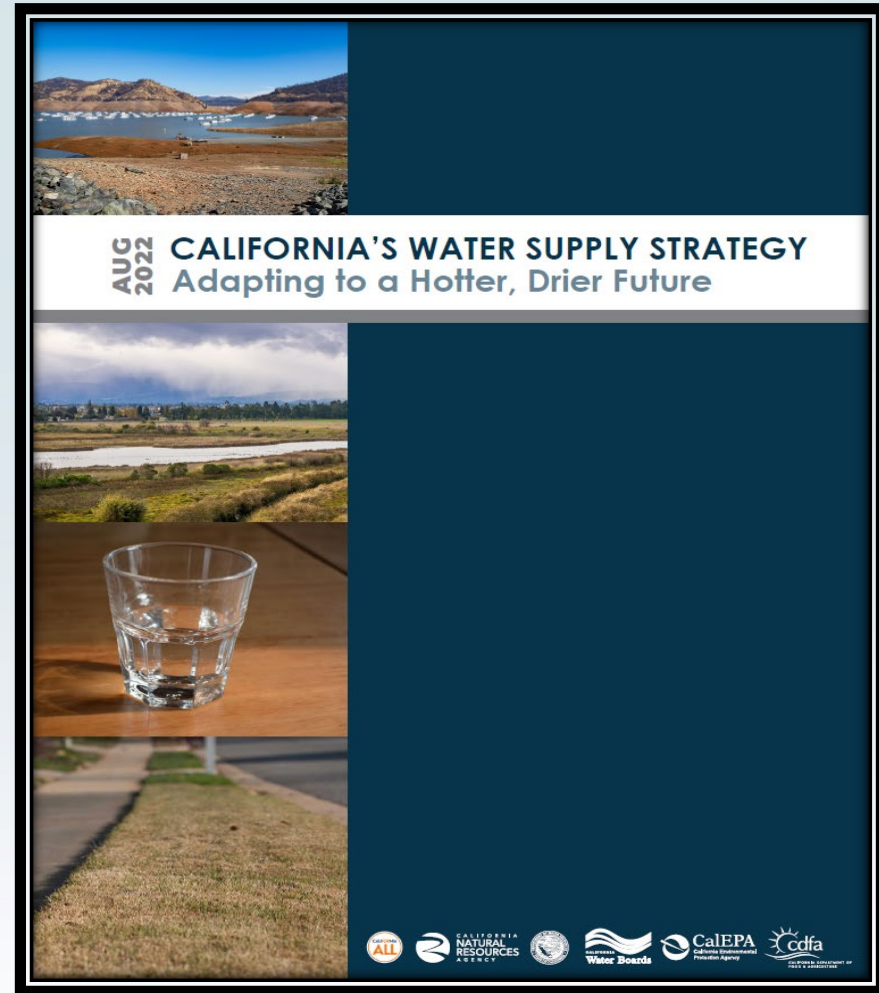
- Efficiently permit indirect potable reuse projects for surface water and groundwater
- Increase non-potable recycled water reuse



California's Water Supply Strategy

Adapting to a Hotter, Drier Future

Recycle and reuse at least 800,000 acre-feet of water per year by 2030, enabling better and safer use of wastewater currently discharged to the ocean.



Recycled Water Policy

Encourage the safe use of recycled water from wastewater sources in a manner that protects public health and the environment.

Increase the use of recycled water from **714,000** acre-feet per year (afy) in 2015 to **1.5 million** afy by 2020 and to **2.5 million afy by 2030**.

WATER QUALITY CONTROL POLICY FOR RECYCLED WATER



Adopted December 11, 2018

Effective April 8, 2019

STATE WATER RESOURCES CONTROL BOARD
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



Recycled Water Policy

Regional water boards shall review and update all recycled water permits inconsistent with Recycled Water Policy. Permits issued prior to Jan. 1, 2001, are a priority.

Fallbrook Public Water District Plant	Fallbrook Public Utility District
Rancho Santa Fe San District Plant	Rancho Santa Fe Comm Serv Dist
Fairbanks Ranch WPCF	Fairbanks Ranch Community Services District
San Luis Rey Water Reclamation Facility	City of Oceanside
Whispering Palms WPCF	Whispering Palms Comm Serv Dist
Santa Rosa WRF	Santa Rosa Regional Resources Authority
Lower Moosa WRF	Valley Center MWD
Ray Stoyer WRF	Padre Dam Municipal Water District
SOCWA Rec Water Use in OC	SOCWA

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CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



Salt and Nutrient Management Plans

The most effective way to address salt and nutrient loading is typically through the development of regional or subregional salt and nutrient management plans

Tier A Basins:

- Lower Santa Margarita
- Temecula-Murrieta
- San Juan
- Santee El Monte
- Hodges/San Pasqual

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Questions? And Contact Info

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ben.neill@waterboards.ca.gov, (619) 521-3376

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CALIFORNIA WATER SUPPLY STRATEGY – RECYCLED WATER'S CENTRAL ROLE

SAN DIEGO CHAPTER

JENNIFER WEST
MANAGING DIRECTOR
WATEREUSE CALIFORNIA

NOVEMBER 15, 2022

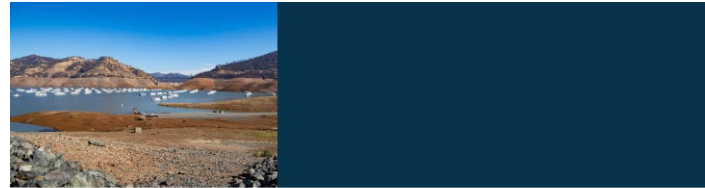


ENGAGE. EDUCATE. ADVOCATE.

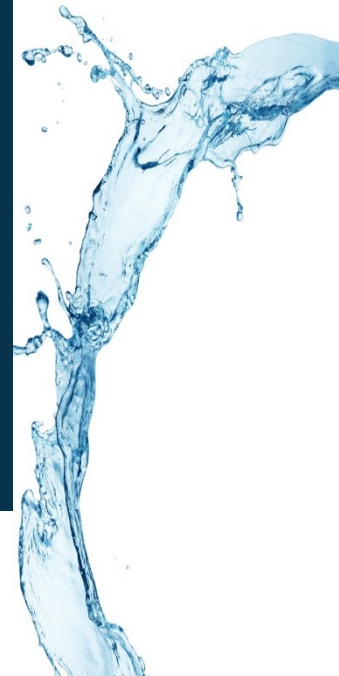


Recycled Water Key Strategy

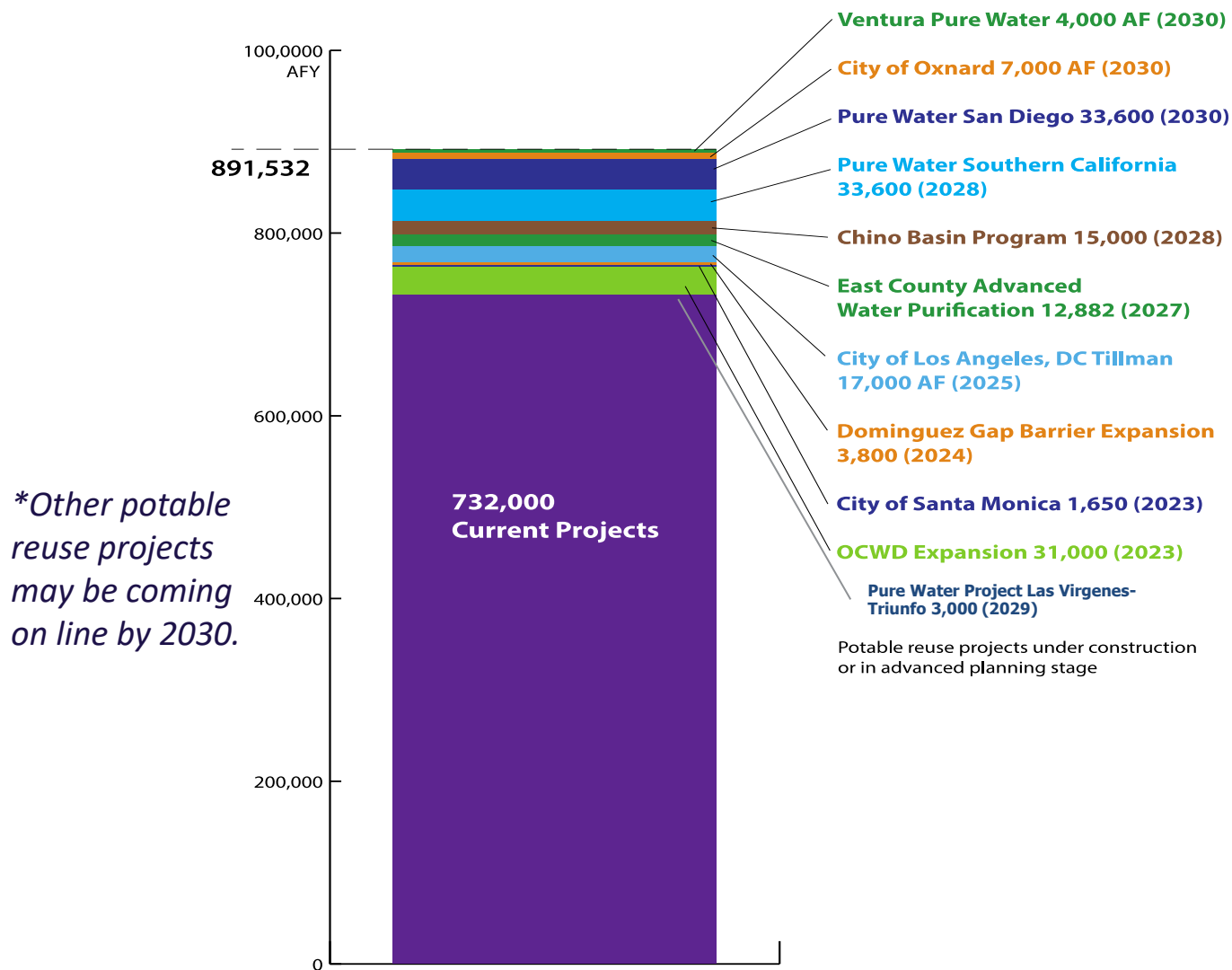
- Sets new recycled water goals
- Recognizes need for more state and federal funding
- Created of recycled water “Strike team” to resolve permitting issues
- Essential DPR Regulations by 2023



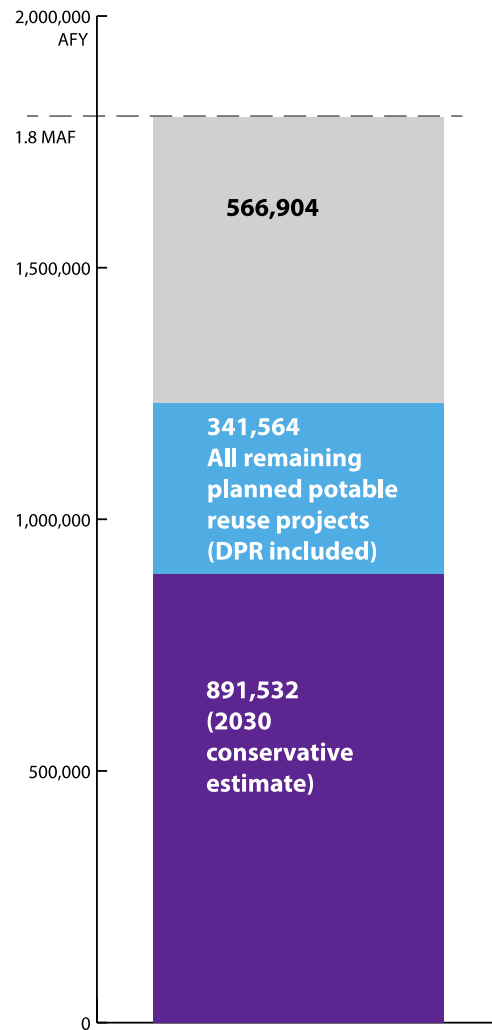
AUG 2022 CALIFORNIA'S WATER SUPPLY STRATEGY
Adapting to a Hotter, Drier Future



Meeting the 2030 Goal of 800,000 AFY

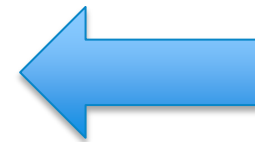


Meeting the 2040 Goal of 1.8 MAF



This must come from increases beyond (2021 levels) in other recycled water uses:

- ag reuse
- landscape irrigation
- energy
- industrial
- onsite reuse, etc.



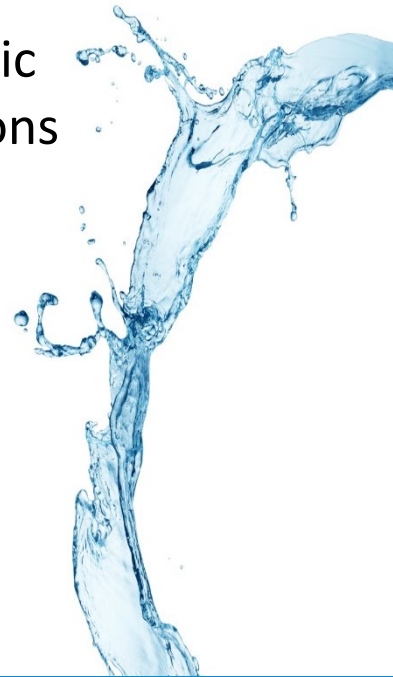
DPR essential projects to meet goal



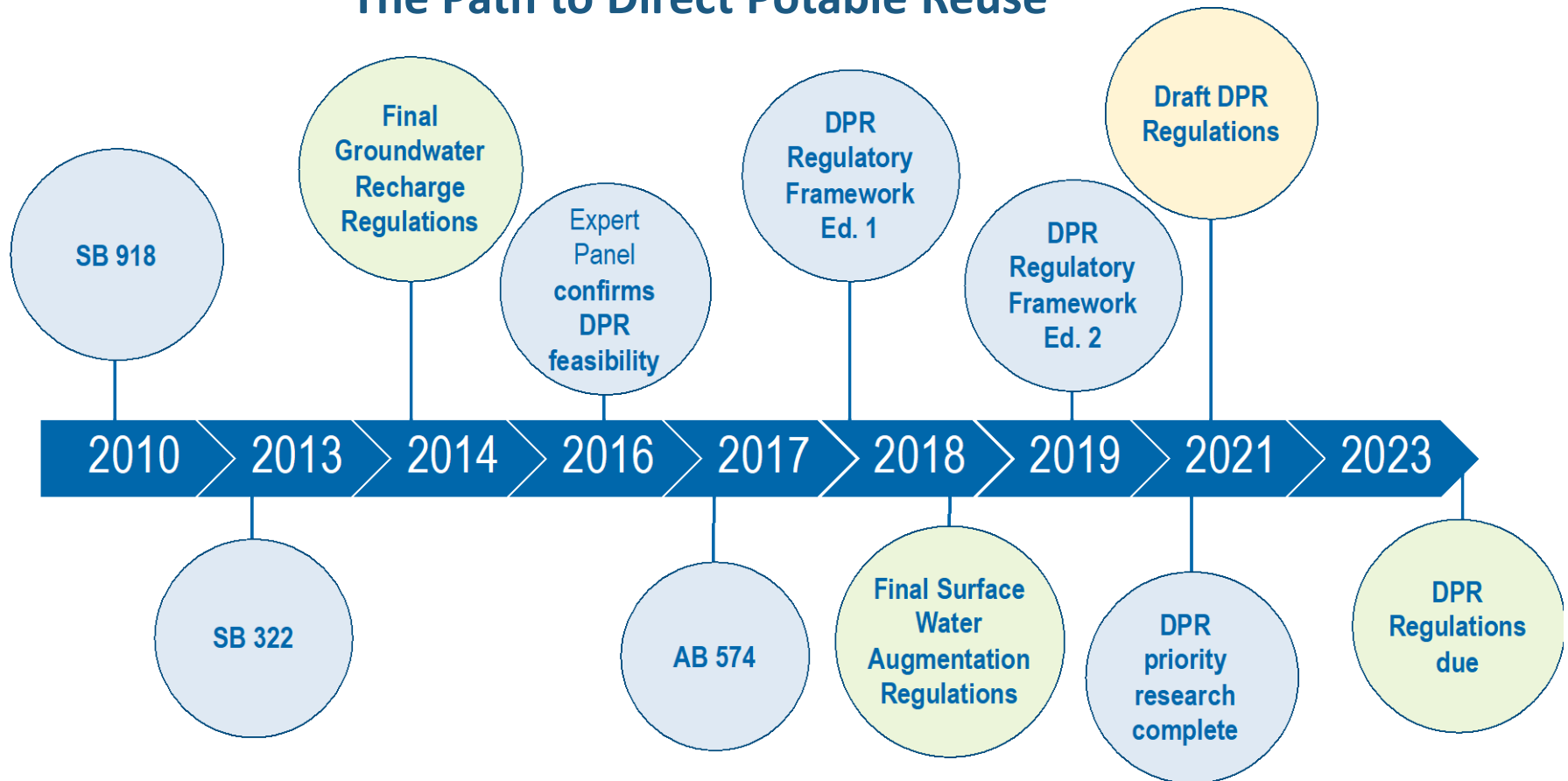
Competitive statewide recycling grant program (FYs 2021-23) (Appropriated by legislature)	\$315 million	<p>\$15 Million grants</p> <p>WRCA Priority for 2023 budget!</p>
Competitive statewide recycling grant program for potable reuse (FY 2023-24) (needs to be appropriated in FY23-24 budget)	\$210 million	
Earmarks		
Pure Water San Diego	\$50M (FY 2021-22 budget)	
Metropolitan Water District of Southern CA - Regional Water Recycling	\$80M (FY 2022-23 budget)	
City of Ontario-Euclid Ave Recycling Project	\$10M (FY 2022-23 budget)	
Total 2021-2024:	\$665 million	

Water Board Recycled Water “Strike Team”

- DWQ will track progress of recycled water projects to meet 2030-2040 goals
- Permitting and funding issues will be assessed
- DWQ considering adding new field in annual volumetric reporting to add in proposed new projects or expansions
- WRCA will assist with this effort



The Path to Direct Potable Reuse



DPR Feasibility Study Called for Pathogen Research

- Updated wastewater studies needed to develop DPR pathogen requirements
- Three of six essential research needs for DPR regulations
- Water Board & Water Research Foundation: “DPR 1 and DPR 2” \$1.5 million

INVESTIGATION ON THE FEASIBILITY OF DEVELOPING UNIFORM WATER RECYCLING CRITERIA FOR DIRECT POTABLE REUSE

STATE WATER RESOURCES CONTROL BOARD

Report to the Legislature
September 2016 - Public Review Draft

In Compliance with Water Code Section 13563

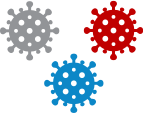




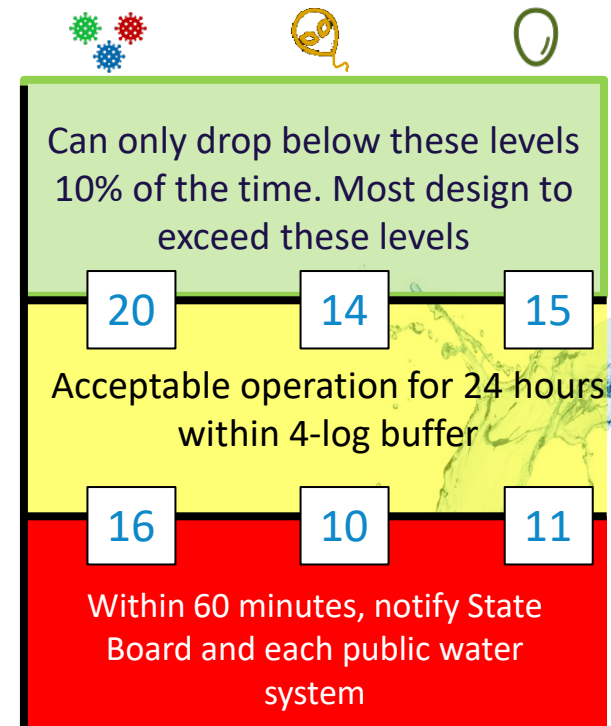
STATE OF CALIFORNIA
Edmund G. Brown Jr., Governor

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Matthew Rodriguez, Secretary

STATE WATER RESOURCES CONTROL BOARD
P.O. Box 100 Sacramento, CA 95812
(916) 341-5250
Homepage: <http://www.waterboards.ca.gov>

DPR Pathogen Control

	Groundwater Recharge	Surface Water Augmentation	Direct Potable Reuse
Virus 	12	12 to 14	20
Giardia 	10	10 to 12	14
Cryptosporidium 	10	10 to 12	15



Using New DPR Dataset for Pathogen Requirements



Recommended by AB 574 DPR Expert Panel



"The Panel recommends using the...DPR-2 dataset rather than the literature-based static maximum point estimate approach...to develop LRVs."



Expand DPR by Using New Pathogen Research

- Use new dataset from DPR Research “DPR 2” and other high quality historical datasets to develop removal requirements
- Change minimum log removal targets for pathogens from:

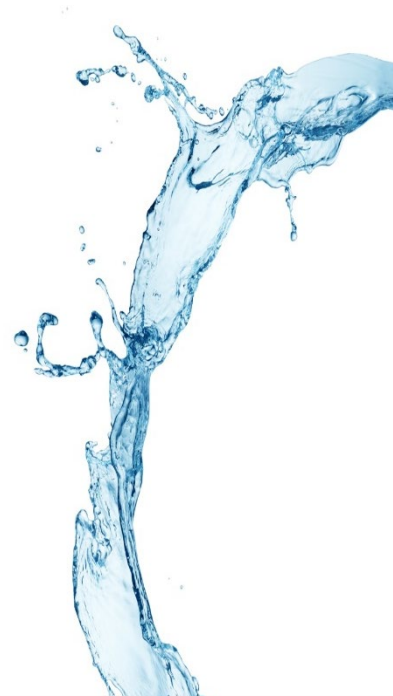
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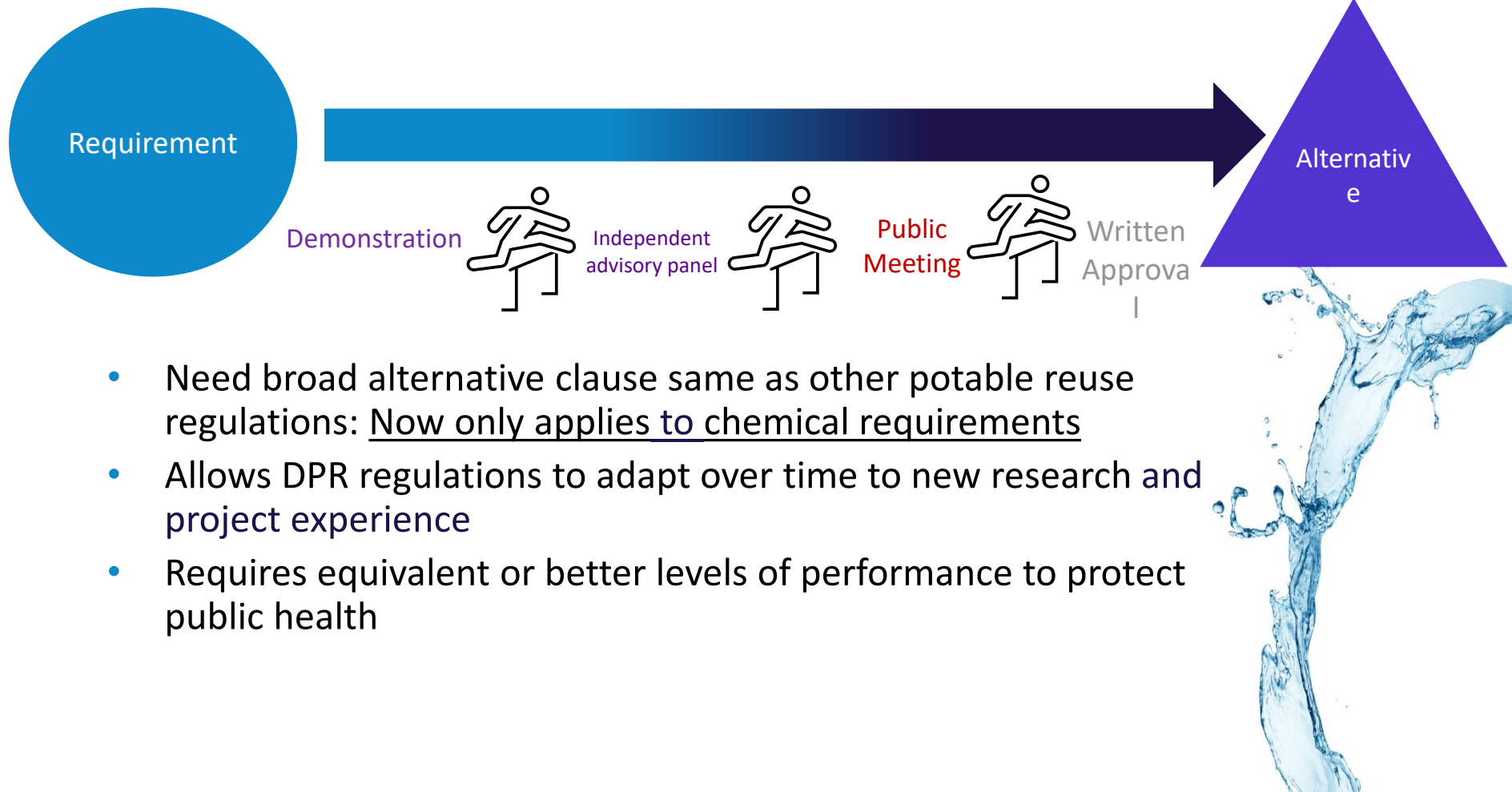
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13 log removal equates to 99.999999999% removal



Need Broad Alternatives Clause



- Need broad alternative clause same as other potable reuse regulations: Now only applies to chemical requirements
- Allows DPR regulations to adapt over time to new research and project experience
- Requires equivalent or better levels of performance to protect public health

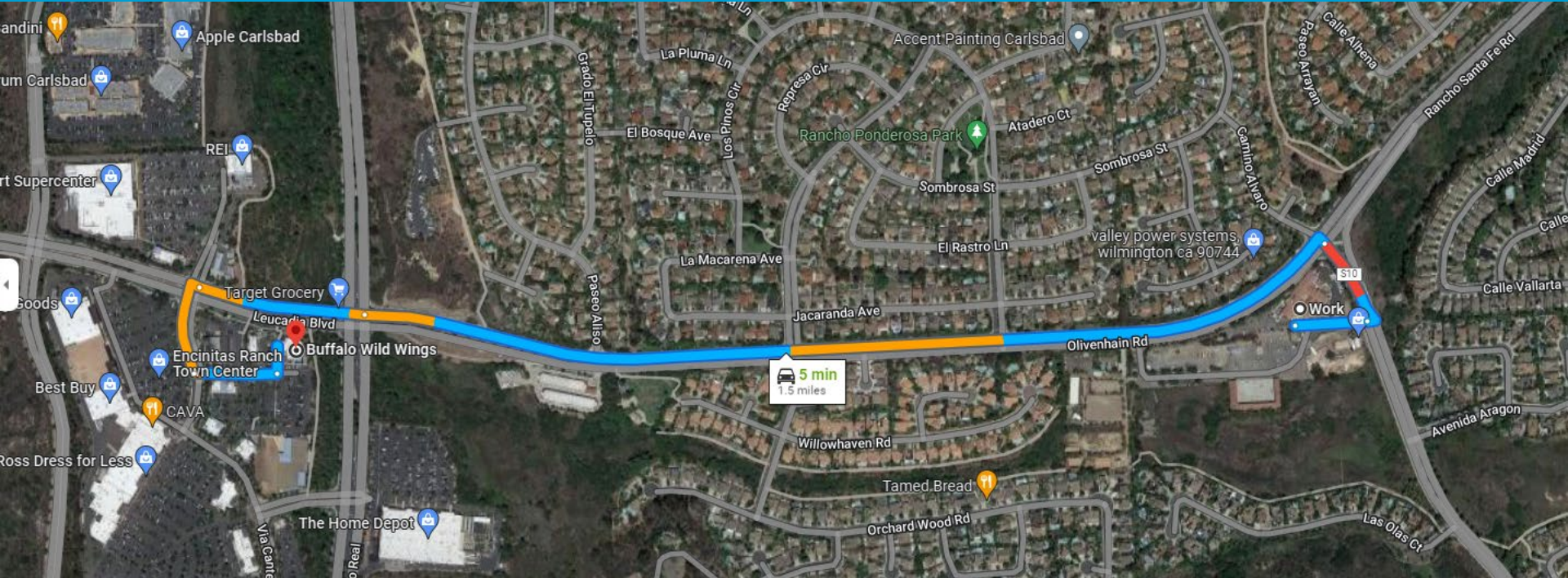


Questions?

Please join us for happy hour!

Buffalo Wild Wings
1068 N El Camino Real

**Brown AND
Caldwell**



Tour of New OMWD Headquarters

