



Pure Water Southern California

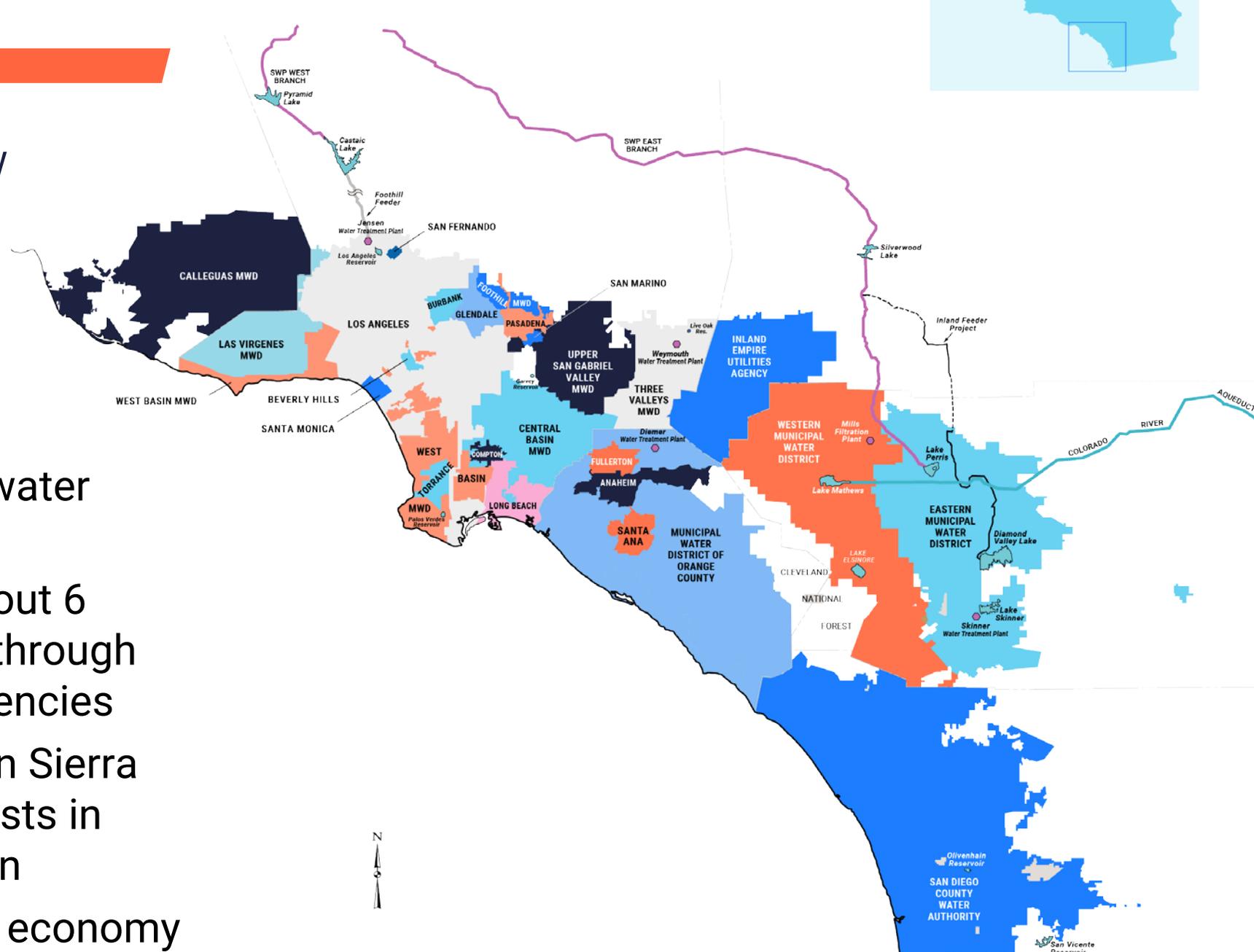
Welcome!

August 9, 2023

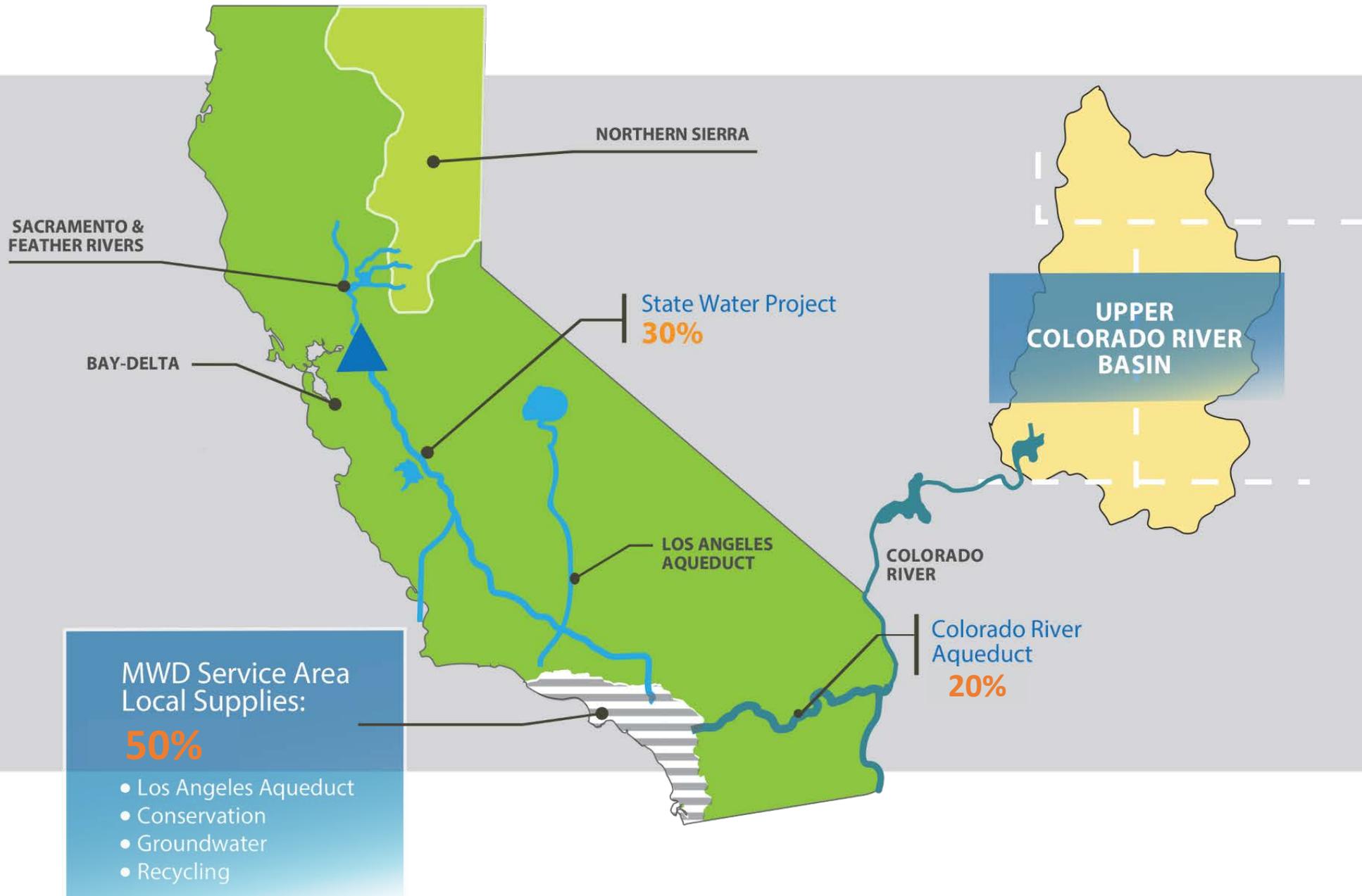


Metropolitan Overview

- Nation's largest wholesale water provider
- 5,200 square miles throughout 6 counties, 19 million people through 26 public member water agencies
- Imports water from Northern Sierra and the Colorado River, invests in local projects & conservation
- Supports \$1 trillion regional economy



Sources of Water in Southern California



Challenges to imported water supplies due to climate change

Uncertainty in our water future



- 2019-22 are driest three years on record
- 2023 is one of the wettest years on record to date
- Colorado River is in long-term drought
- Lake Mead and Lake Powell hit historically low elevations
- States working together to find cuts on use

Pure Water Southern California Program

How it works



①

Used water
(wastewater)
from homes,
businesses, and
industries in LA
County



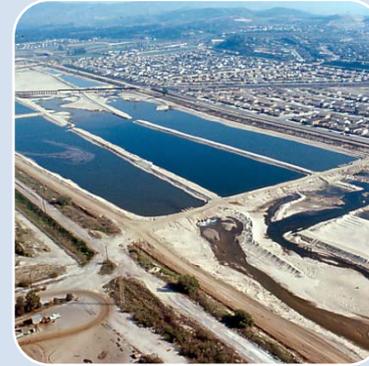
②

Cleaned at
Sanitation
Districts' Joint
Water Pollution
Control Plant



③

Purified at
Metropolitan's
advanced water
purification
facility



④

Conveyed
through over 60
miles of pipeline
to groundwater
basins,
industries, or
Metropolitan's
drinking water
plants



⑤

A new climate-
resilient source
of water for
Southern
California

Pure Water Southern California

In numbers



Up to 150 million
gallons per day



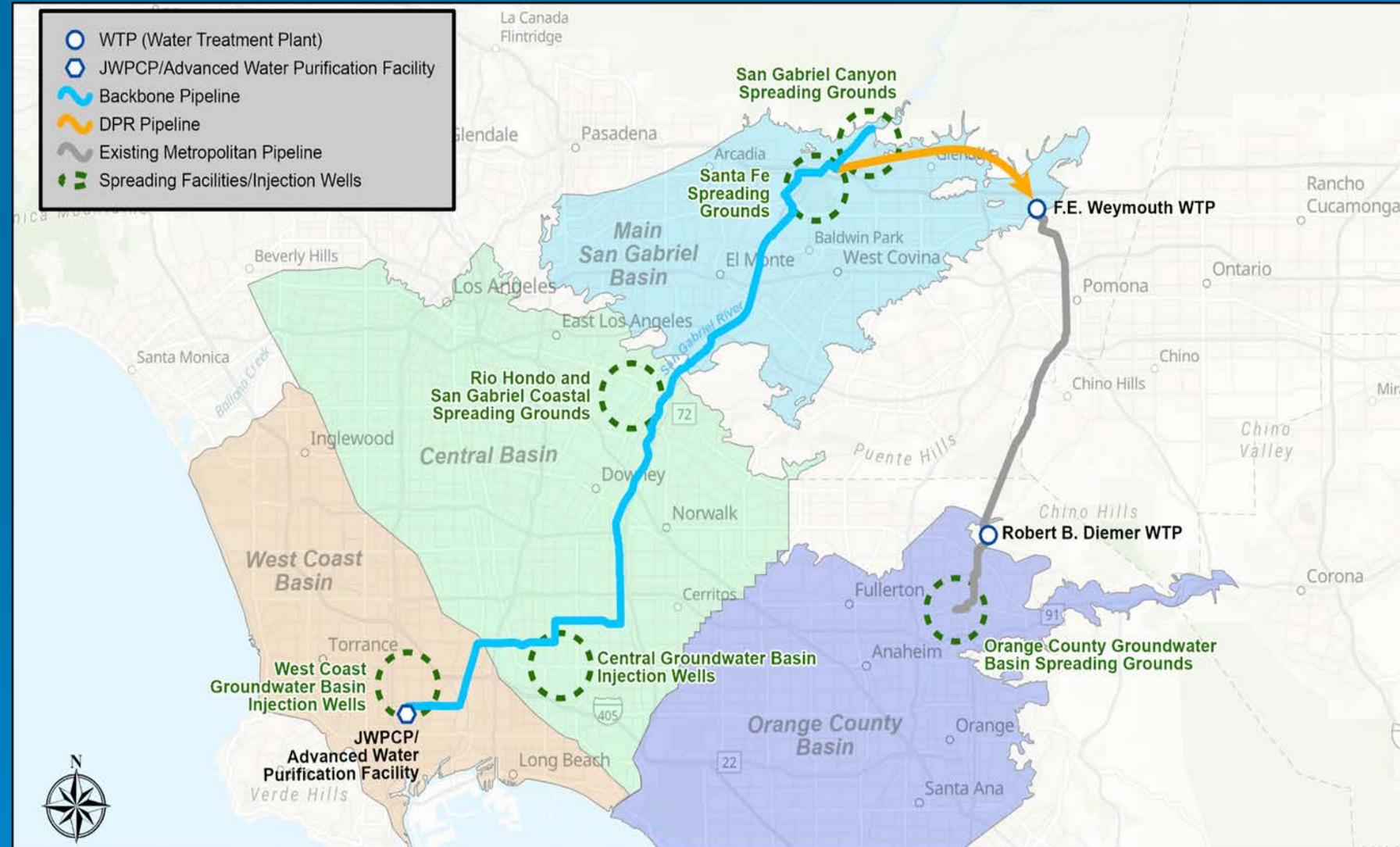
Enough water for over
1.5 million people



One of the largest
programs of its kind in
world

Program Facilities

- Joint Water Pollution Control Plant
- Advanced Water Purification facility
- Conveyance pipelines
- Pump stations
- Spreading facilities
- Injection wells
- A regional water reuse system



Joint Water Pollution Control Plant

- Average flow of ~240 million gallons daily
- Cleaned water flows to the ocean
- Largest untapped source of treated wastewater





THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Program Partners



LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Metropolitan Member Agencies



Groundwater Basin Managers



Colorado River Partners



Other Key Partners



Program Benefits

Water Supply Benefits

 Provides a Sustainable Supply of Water

 Increases Water Resiliency

 Replenishes Groundwater Basins

 Creates a Local Supply of Water

Environmental Benefits

 Enhances Water Quality

 Reuses the Largest Untapped Source of Wastewater in the Region

 Reduces Reliance on Imported Supplies

Economic Benefits

 Generates Jobs

Program Schedule

2021-2024

Environmental
Planning

2023-2031

Design &
Construction

2032

Primary Startup &
Operations

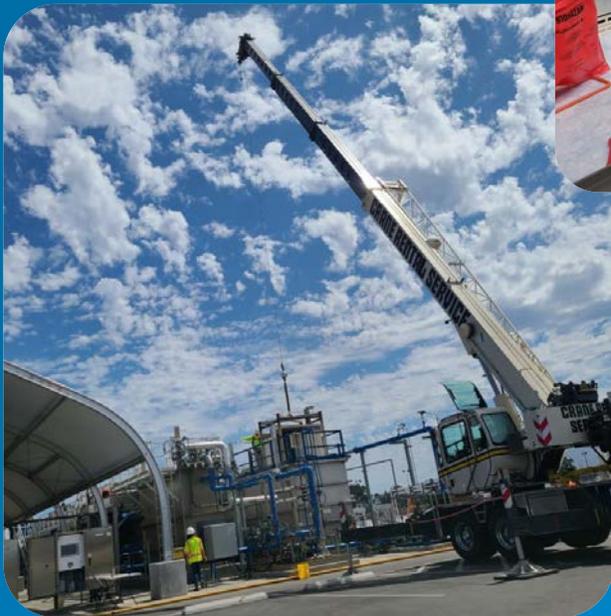


Pure Water Southern California



Demonstration Plant Overview

- Tests an innovative purification process
- Obtain regulatory approval of process
- Provides costs and data for full-scale facility
- Gain public support



Advanced Water Purification Facility

Three-step purification process that removes particles such as bacteria, viruses, pharmaceuticals, PFAS, and others, to produce highly purified water.



Membrane bioreactors



Reverse osmosis



Ultraviolet light/ Advanced oxidation



Let's Take a Tour!

www.mwdh2o.com/purewater

THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

EN ^

Local Water Agency v

Director Login



English 日本語

Español 한국어

Français 한국어

عرب Polskaie

中文 русский

Deutsche Tagalog

Ελληνικά Tiếng Việt

हिंदी



Water is too precious to use just once. So, the Metropolitan Water District of Southern California is making a major investment in a potential water recycling program that would reuse water currently sent to the ocean. Pure Water Southern California, formerly known as the Regional Recycled Water Program, will take cleaned wastewater and further purify it to produce a new, sustainable source of high-quality water for Southern California.

This partnership with the Los Angeles County Sanitation Districts would produce up to 150 million gallons of water daily when completed and provide purified water for up to 15 million people, making it one of the largest water reuse programs in the world.

[View program resources](#) →

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[Program fact sheet](#) →

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Visit our website for more
information and resources.



PUREWATER
SOUTHERN CALIFORNIA



Wrap-up and Questions



**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources

Thank you for joining us!

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PUREWATER

S O U T H E R N C A L I F O R N I A



**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources