



# Pure Water Southern California

A New Source of Water

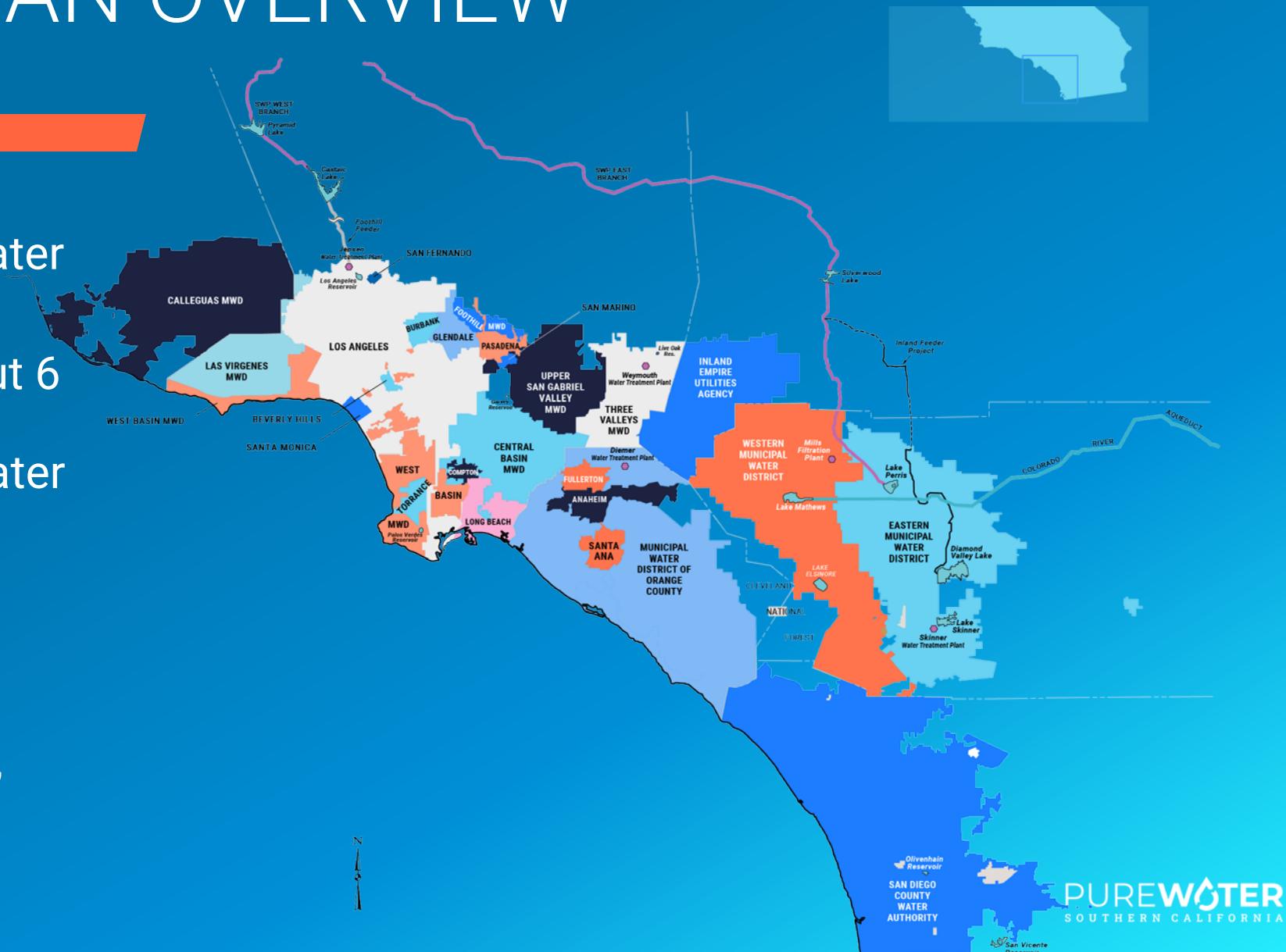
July 11, 2022

**PUREWATER**  
SOUTHERN CALIFORNIA

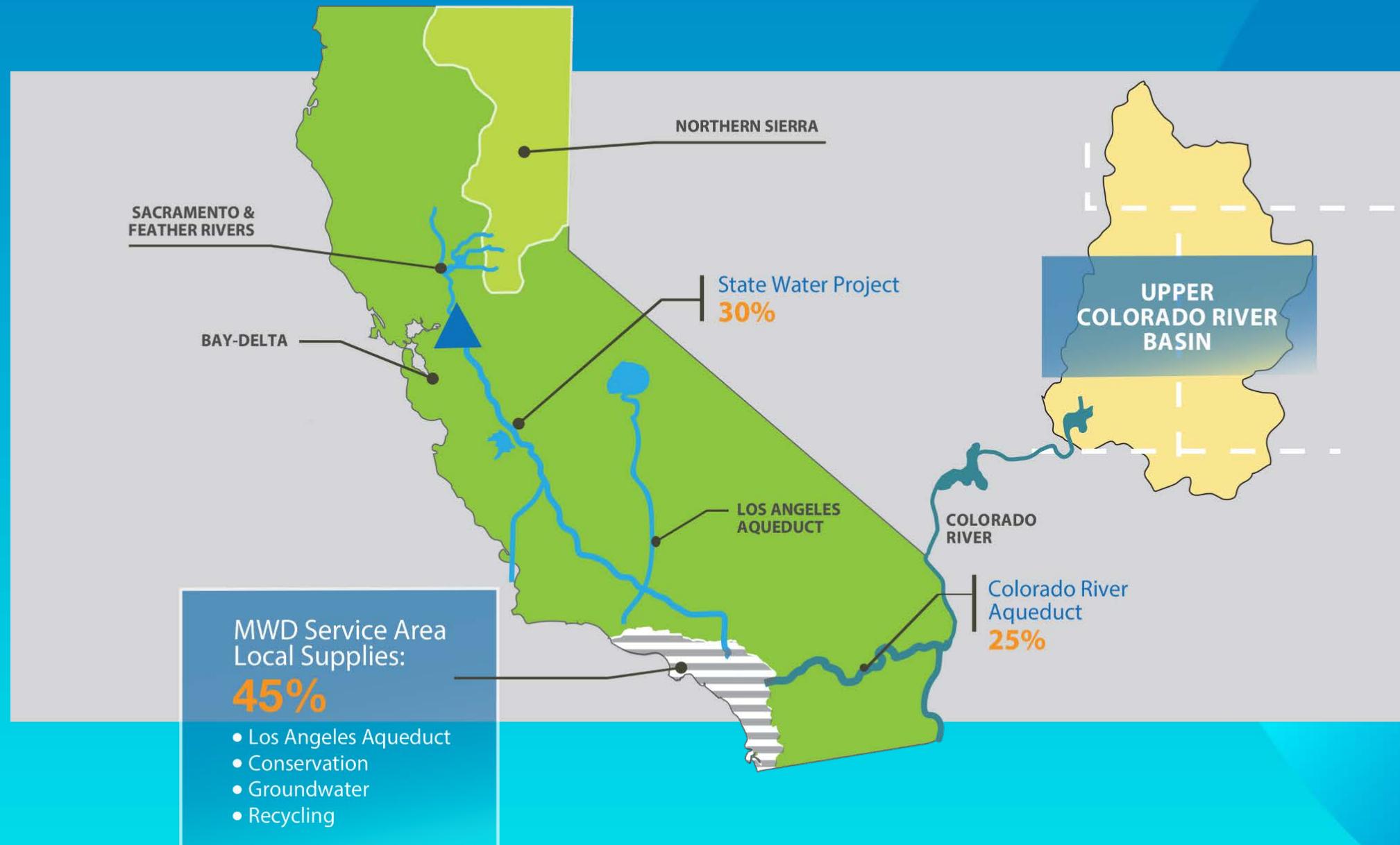


# METROPOLITAN OVERVIEW

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



# HISTORY OF REACHING FAR FOR WATER



# HISTORIC LOW RESERVOIR LEVELS

*Challenges to imported water supplies due to drought and climate change*



- Lake Oroville hit record low levels this year
- 2019-22 are driest three years on record

- Lake Mead and Lake Powell at historically low elevations
- Colorado River is in long-term drought

# PURE WATER SOUTHERN CALIFORNIA PROGRAM

A \$3.4 billion *investment*



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 treatment plant

④ Conveyed through over 60 miles of pipeline to groundwater basins, industries, or Metropolitan's drinking water plants

⑤ A new drought-proof source of water for Southern California

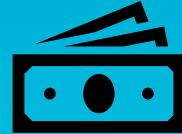
# ECONOMIC BENEFITS

*A Thriving Economy for the Region*

Construction Generates:



**\$8.68 billion** in total economic output



**\$402 million** in state & local taxes

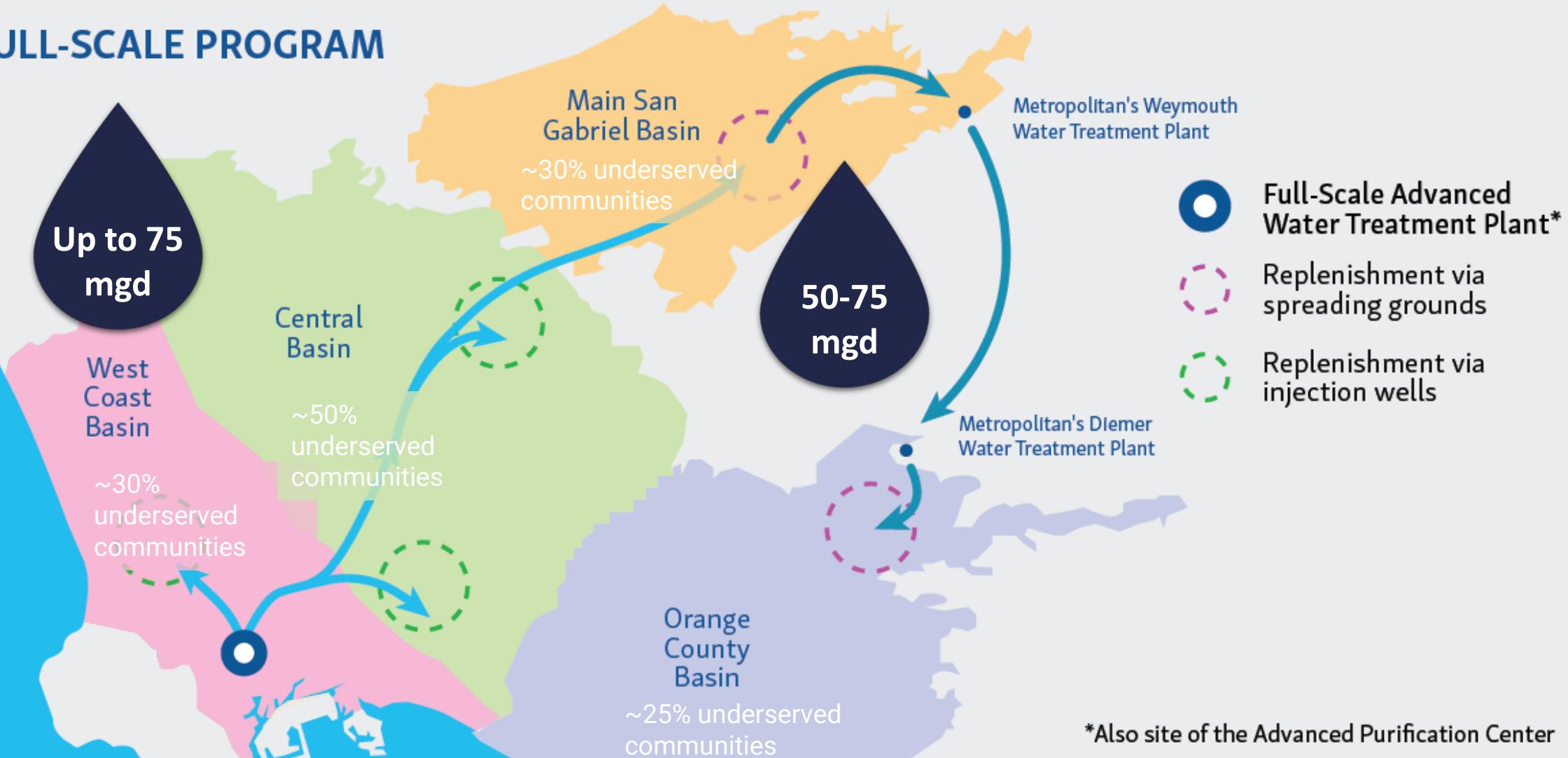


**\$3.46 billion** in labor income

# A FULL-SCALE PROGRAM

*Up to 150 million gallons daily. Enough water for 500,000 homes*

## FULL-SCALE PROGRAM



# A FULL-SCALE ADVANCED WATER TREATMENT PLANT



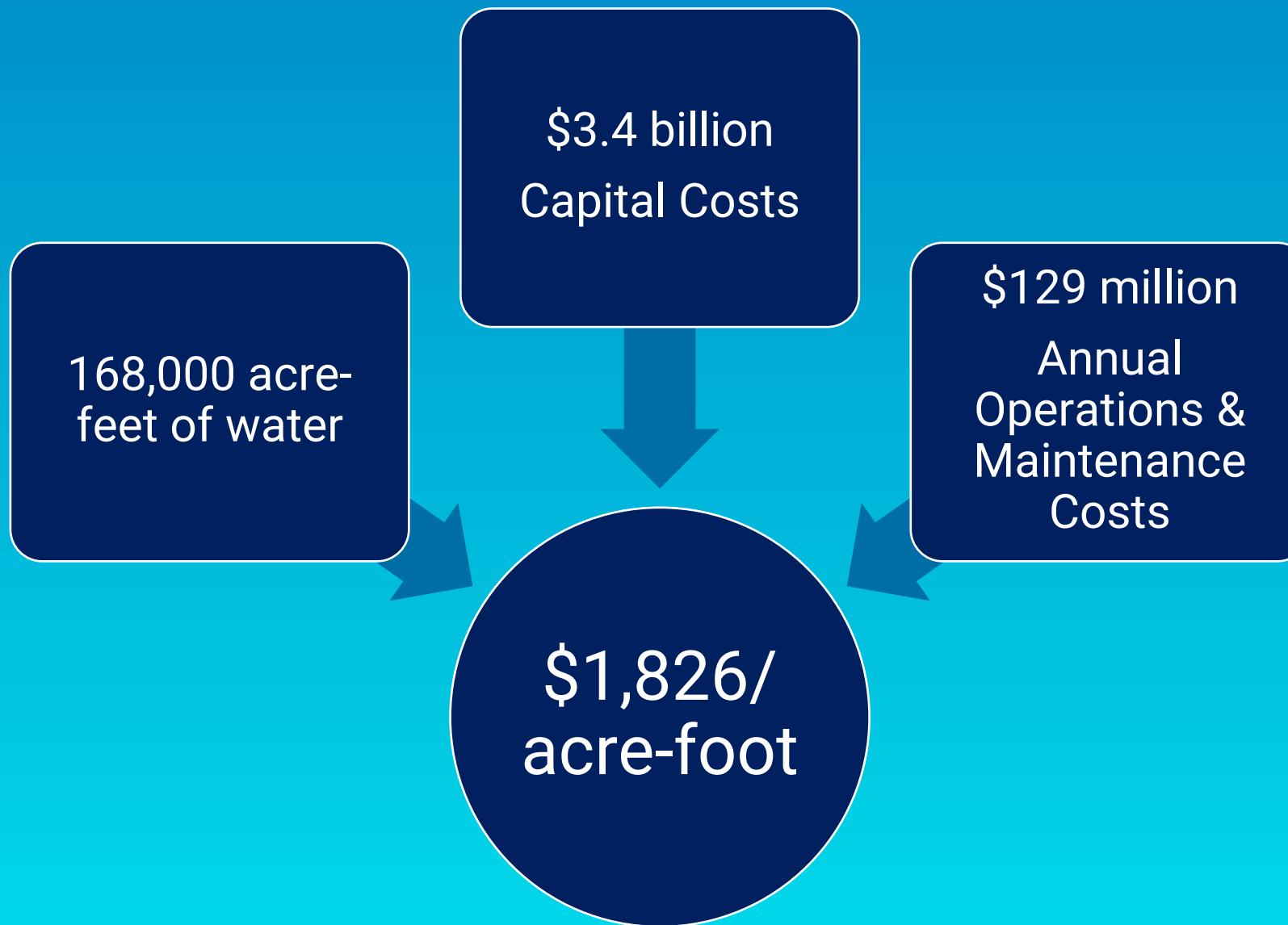
Three-step purification process:

- Membrane bioreactors
- Reverse osmosis
- Ultraviolet light/Advanced oxidation

Removes particles such as bacteria, viruses, pharmaceuticals, PFAS, and others, to produce highly purified water.



# PROGRAM COSTS (2018 COSTS)



# PROGRAM SCHEDULE



Environmental  
Planning



Design and  
Construction

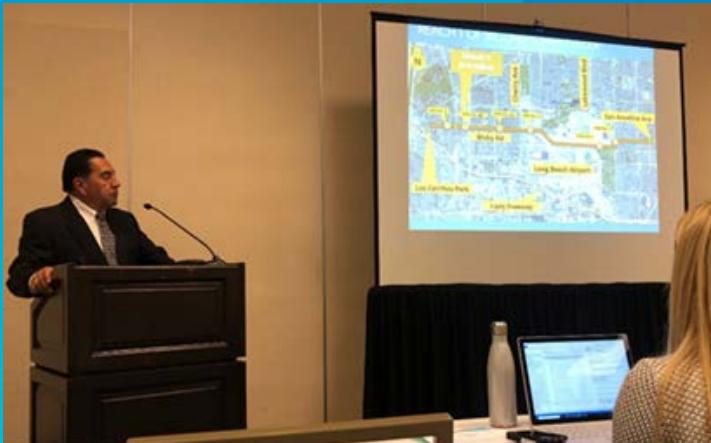


Start-up and  
Operations

*Opportunities to accelerate this timeline*

# ENVIRONMENTAL PLANNING PHASE OUTREACH GOALS

- Raise awareness of program needs and new water supply
- Reach out to communities potentially impacted by project



# OPPORTUNITIES TO WORK TOGETHER

*Some ways to stay involved*

# Nation+World: President Joe Biden mourns Buffalo shooting victims, says 'evil will not win' in U.S. Atti

# Pasadena Star-News

AN EDITOR OF THE REGISTER

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## As Mars rover's life ends, work begins

Dusty solar panels, darker skies expected to drain rest of power; scientists analyzing data

By DANIELLE DIBBLE

Pasadena Star-News

Since landing on Mars in late 2011, NASA's Curiosity Mars lander has made the world aware of some surprising discoveries that will be analyzed for decades, according to the agency's chief scientist for the interplanetary expedition. But the rover is gradually losing

power, forcing scientists to prepare for the end of their interplanetary mission.

Using an advanced suite of instruments attached to Ingenuity, the agency's Mars Helicopter, using seismic instruments — Curiosity's primary mission — and the Mars Environmental Dynamics Analyzer, the team has spent the last year on Mars, equivalent to two Earth years, as

planning the planet's interior and atmosphere, and learning more about the formation and evolution of the red planet.

By December of this year, however, insight is expected to have run out, and the team will have less than 1,200 marsquakes — the name for earthquakes on Mars — recorded since the rover landed its 120 days on Mars in 2012.

John Grotzinger, former director of NASA's Planetary Science Division at NASA headquarters

WALTER M. FAHEY

ASTROPHOTO  
NASA/JPL-Caltech  
A photograph of the Mars 2020 Perseverance rover on the surface of Mars, with its solar panels deployed. The background shows the reddish-orange terrain of the planet.

PHOTO: JPL-Caltech/NASA/JPL-Caltech/MSSS

RATTLING THE DISCOURT

## WASTEWATER TO DRINKABILITY

PHOTO: AP/WIDEWORLD/CONTRIBUTOR

Gavin Newsom looks at a recycled water sample as Rajani Suri, community engagement manager for the Metropolitan Water District, looks on during a tour of a MWD water recycling demonstration facility in Carson on Tuesday.

Governor tours Carson facility where millions of gallons of water could become potable again

By KAREN WILSON

Associated Press

With California dealing with a severe drought — the only drought of this scale to hit the state in history — officials are looking to wastewater for sustainable, drought-proof alternatives to water from rivers, which experts say could last for years.

While Gov. Gavin Newsom was in Carson on Tuesday afternoon to visit the Metropolitan Water District's water recycling facility, the Metropolitan Water District of Southern California, which the state is asking to address the crisis — namely, a drought that is getting worse — was pointing out that a water project could be years away.

The visit, he said, was meant to help publicize the project as MWD and other agencies work to

This is a profoundly important project for the state's future," Newsom said after a tour of the MWD's water recycling demonstration facility in Carson on Tuesday.

PUEBLO HILLS

## Park to receive \$28.3M boost

Board of Supervisors OKs more funding for the land atop what was once largest landfill in nation

By CRAIG COOK

Associated Press

The board of the first new regional park in San Angelo County in 30 years took a step closer to becoming a reality Tuesday after reviewing a funding proposal.

What will be the Pueblo Hills Regional Park on the site of what was once the largest landfill in the state — and the second largest in the country — will cost \$28.3 million, \$1.3 million more than the \$26.9-million bid the county received from Gifford Construction.

The county received compensation from the

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OKLAHOMA

## Mariupol's capture by Russia appears nigh

By OLEKSANDRA SHASHKOVA

and CHARLES McGRATH

The Associated Press

MOSCOW (AP) — Mariupol appeared on the verge of falling to the Russians on Tuesday as Ukraine insisted it had been taken, while hundreds of its citizens held out for months under relentless shelling in the last bastion of resistance in the顿河畔罗斯托夫 region.

The capture of Mariupol would make it the biggest city to be taken by Moscow's forces

DAVID J. PHILLIPS

OF CALIFORNIA/LOS ANGELES

DA files capital murder charges

Los Angeles, Calif., police have filed charges against a man accused of killing his wife and her two sons in a triple homicide that shocked the community. The victim was a 65-year-old woman who died in her home in the city's South Park neighborhood. Her two sons, ages 14 and 16, also died in the shooting. The suspect is a 21-year-old man who has been identified as a member of the gang. The victim was a 65-year-old woman who died in her home in the city's South Park neighborhood. Her two sons, ages 14 and 16, also died in the shooting. The suspect is a 21-year-old man who has been identified as a member of the gang.

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# Participate in our environmental review process

## Attend a tour



# DISCUSSION/Q&A



**PUREWATER**  
SOUTHERN CALIFORNIA



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SANITATION DISTRICTS**  
*Converting Waste Into Resources*

**PUREWATER**  
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