



Engineering, Operations, & Technology Committee

# 2025 System Operations A Year in Review

Item 6a

February 9, 2026

Presented by: Raha Shirkhani

Item 6a

# 2025 System Operations A Year in Review

## Subject

Update on 2025 System Operations

## Purpose

Provide recap of 2025 operations

# 2025 System Operations A Year in Review

## Outline

- Hydrologic Conditions
- System Operations
- Operational Challenges
- Emergency Response
- 2026 Look Ahead

# 2025 System Operations A Year in Review

## Outline

- Hydrologic Conditions
- System Operations
- Operational Challenges
- Emergency Response
- 2026 Look Ahead

# Hydrologic Conditions Summary

## Northern Sierra (3<sup>rd</sup> Year of Above-Average)

Snowpack



120%

Runoff



115%

## Upper Colorado River Basin (Ongoing Drought)

Snowpack



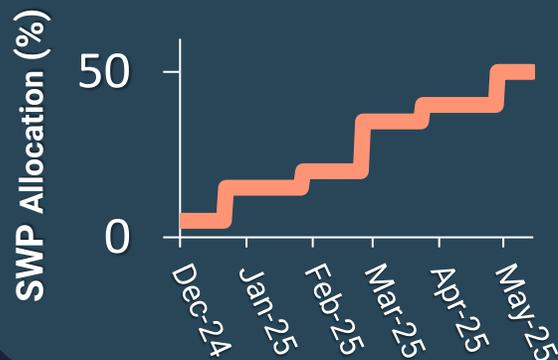
85%

Runoff

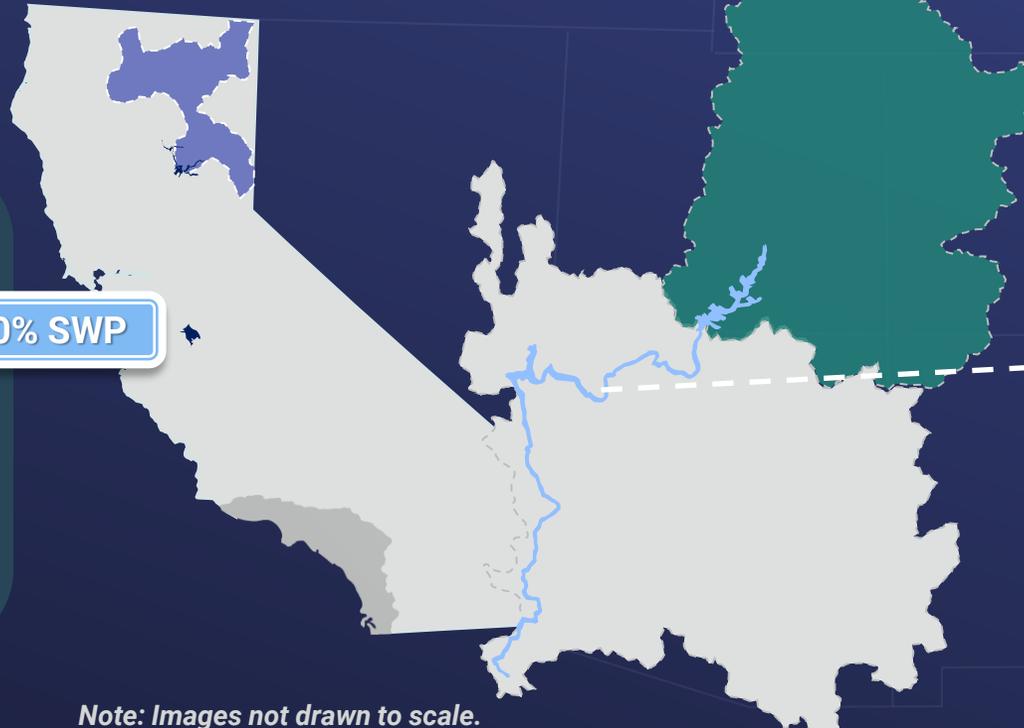


49%

Strong winter storms resulted in SWP allocation increasing each month



50% SWP

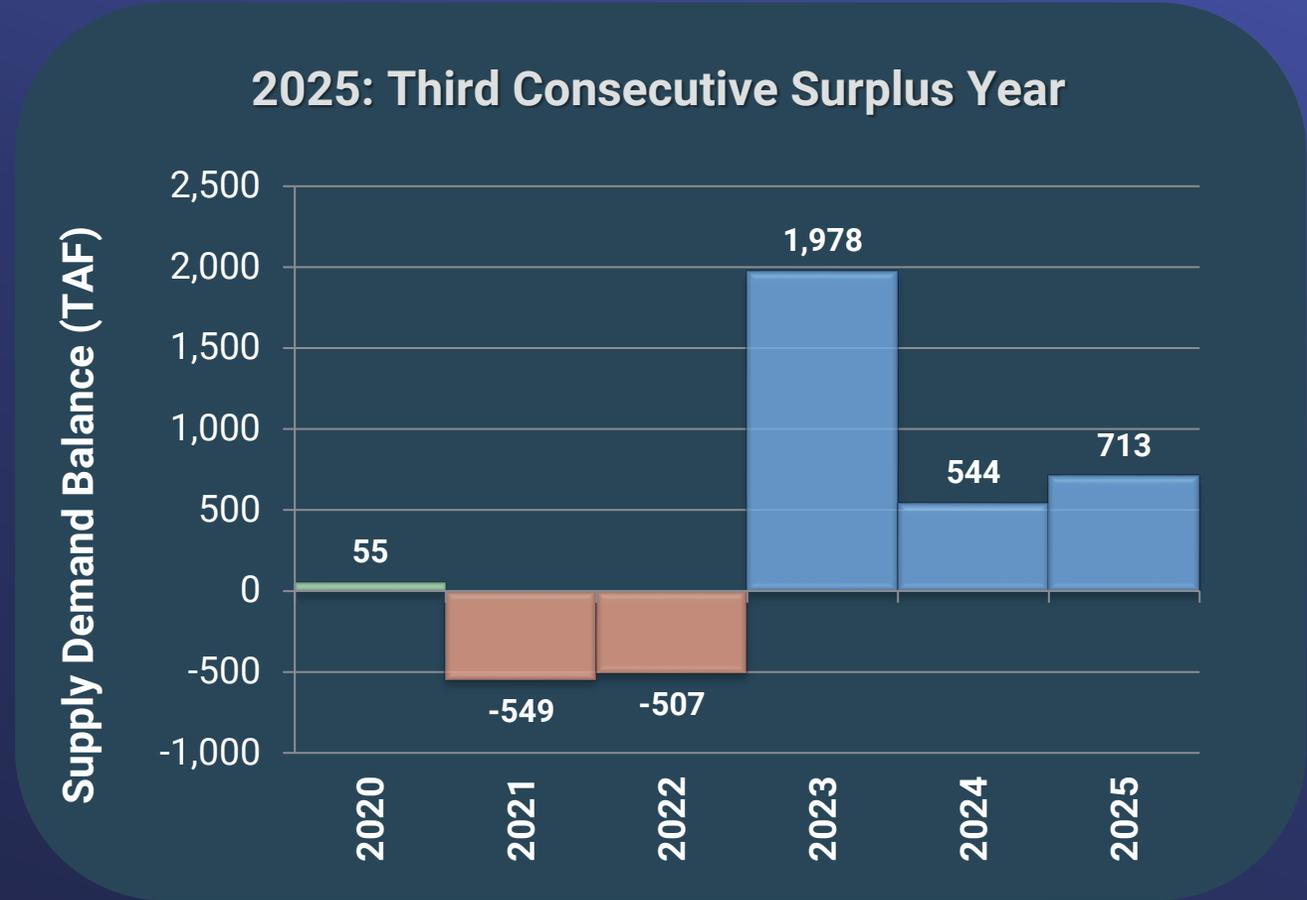
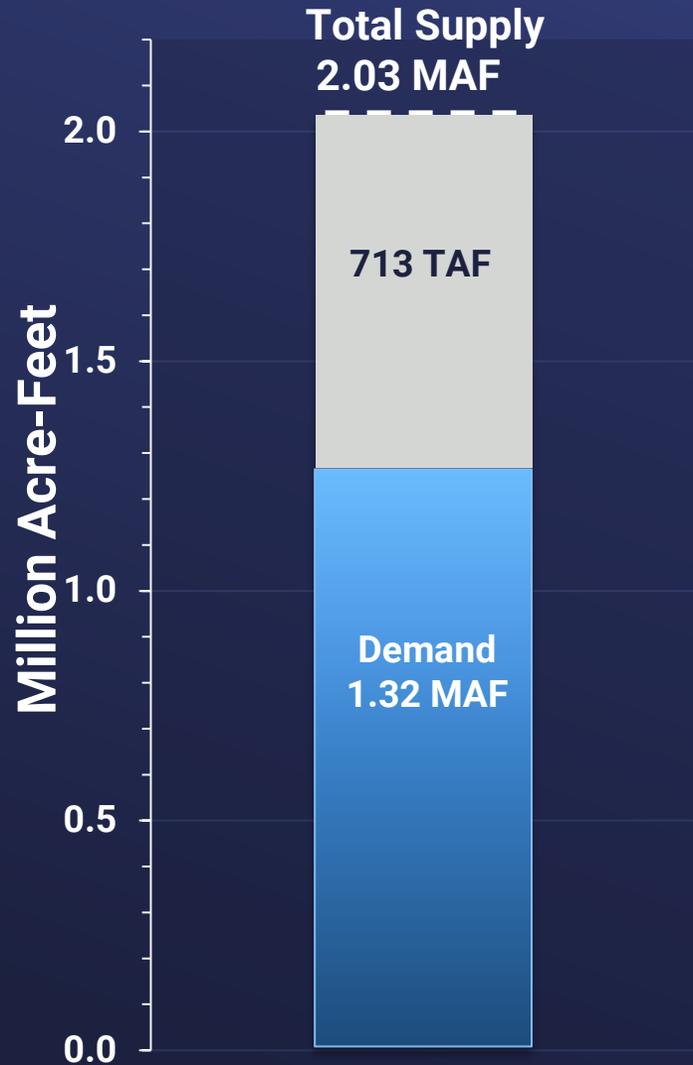


Note: Images not drawn to scale.

Lake Mead Storage Levels  
Declining Amid Ongoing Drought



# Water Supply/Demand Balance: Before Water Management Actions



**Notes:**

*Demand includes full-service sales, minimum obligations, and losses.*

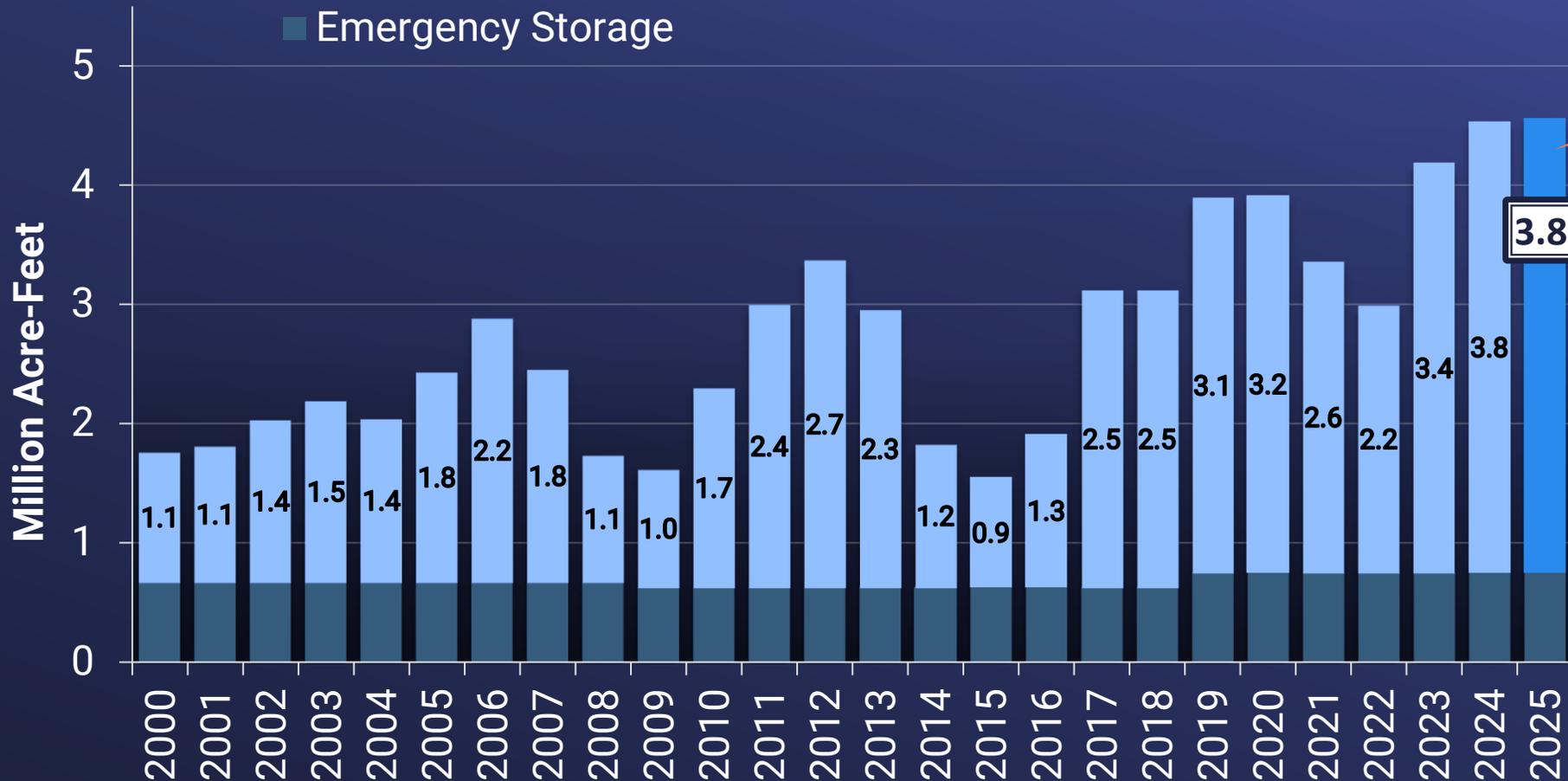
*2022 does not include Human Health and Safety Supply.*

*2025 Supply data is as of February 4, 2026.*

# Metropolitan's 2025 Surplus Actions: Added to Storage, Met Future Obligations and Generated Revenue



# Record-High Storage for Metropolitan End-of-Year Balances



Includes Record High Carryover



San Luis Reservoir  
(Courtesy of California State Parks, 2026)

*Note: 2025 end-of-year balance is preliminary as it is subject to USBR final accounting.*

# 2025 System Operations A Year in Review

## Outline

- Hydrologic Conditions
- **System Operations**
- Operational Challenges
- Emergency Response
- 2026 Look Ahead

# Minimizing SWP Use as Allocation Developed

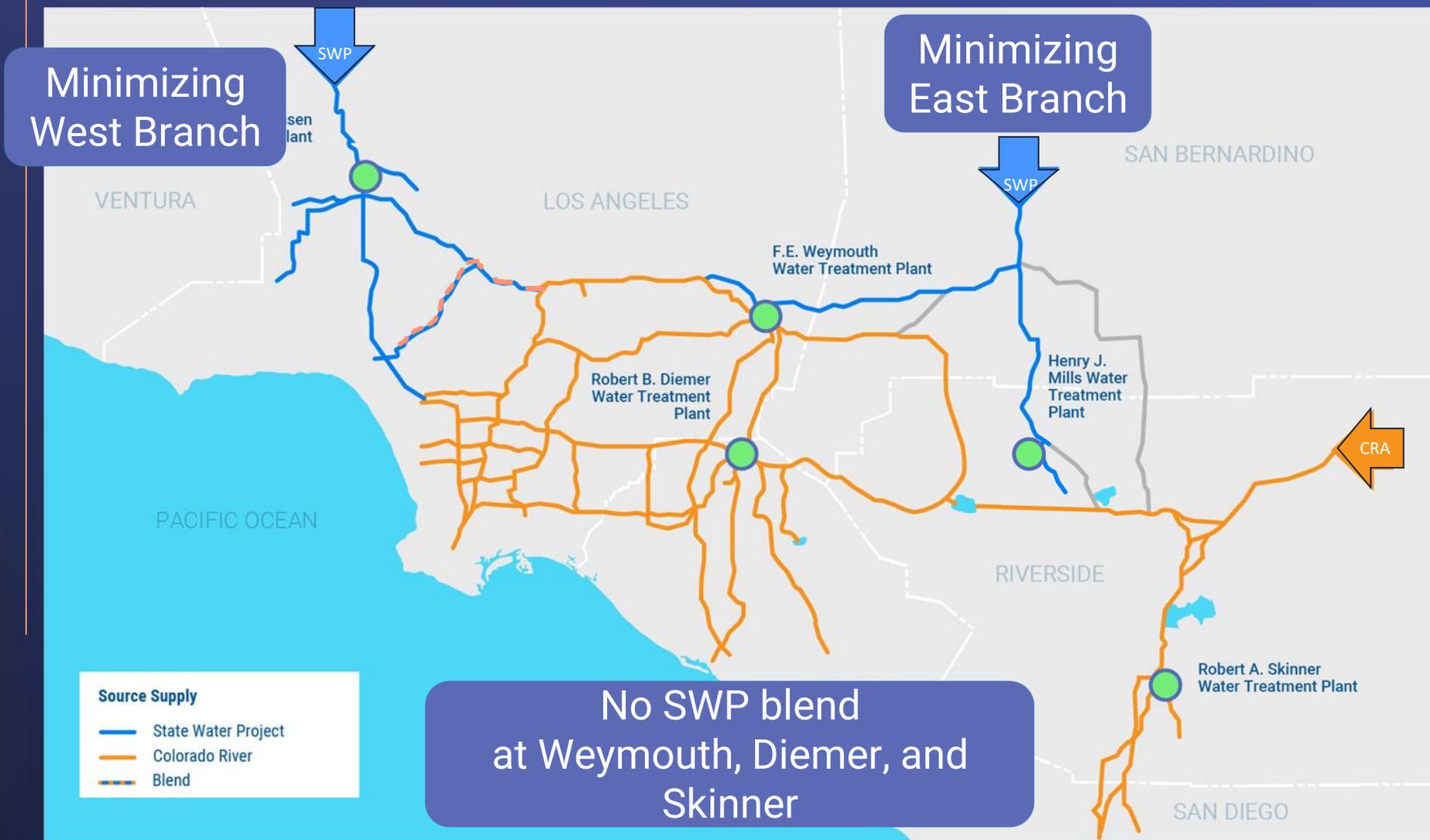
2025 Initial  
SWP Allocation  
5%

Early 2025  
Dry Conditions  
Operations



Colorado River Aqueduct (CRA)  
at 7-Pump Flow

February 9, 2026



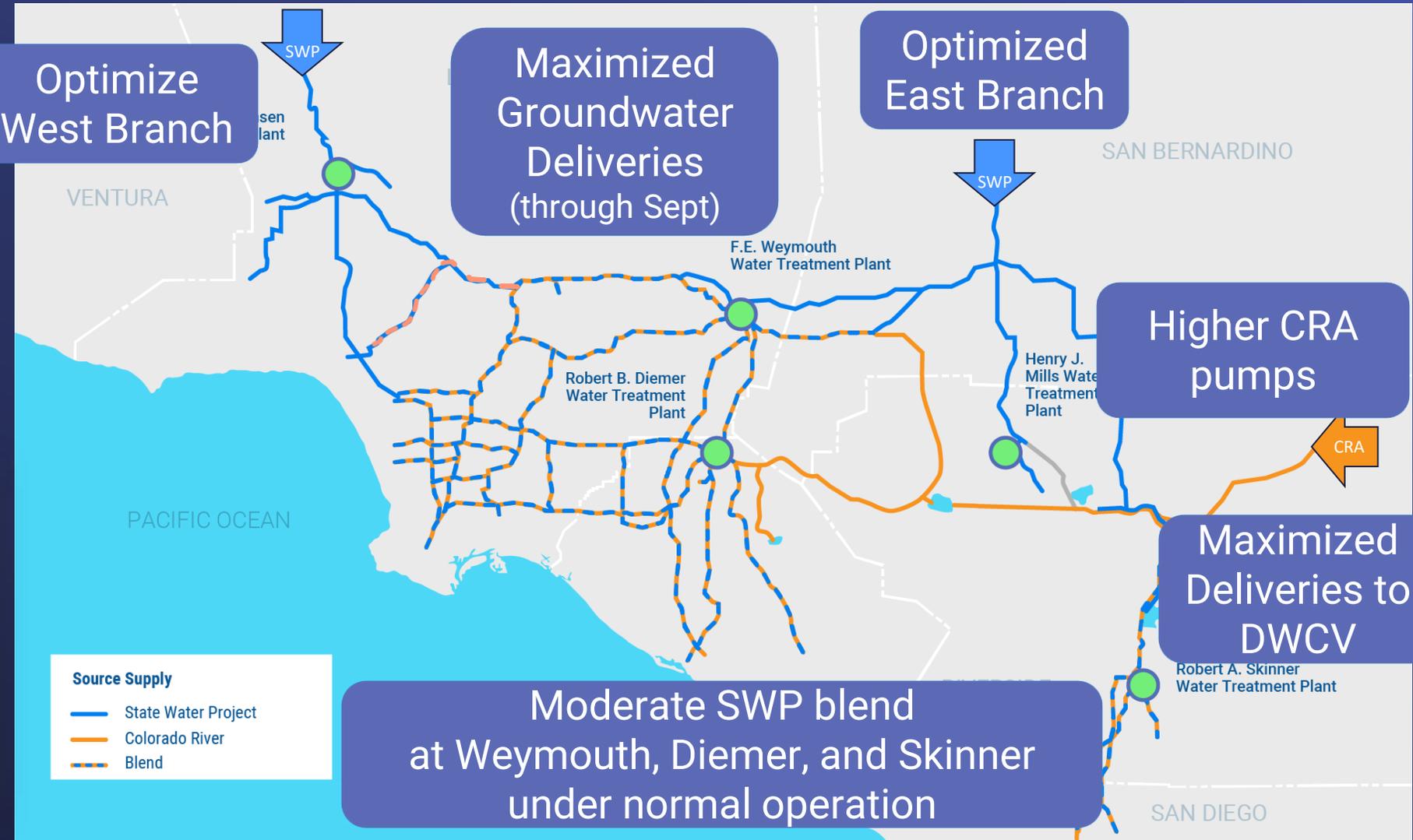
# Maximizing SWP Use to Meet Storage Goals

2025  
SWP Allocation  
50%

Mid 2025  
Surplus  
Operations



Deliveries to USG-03



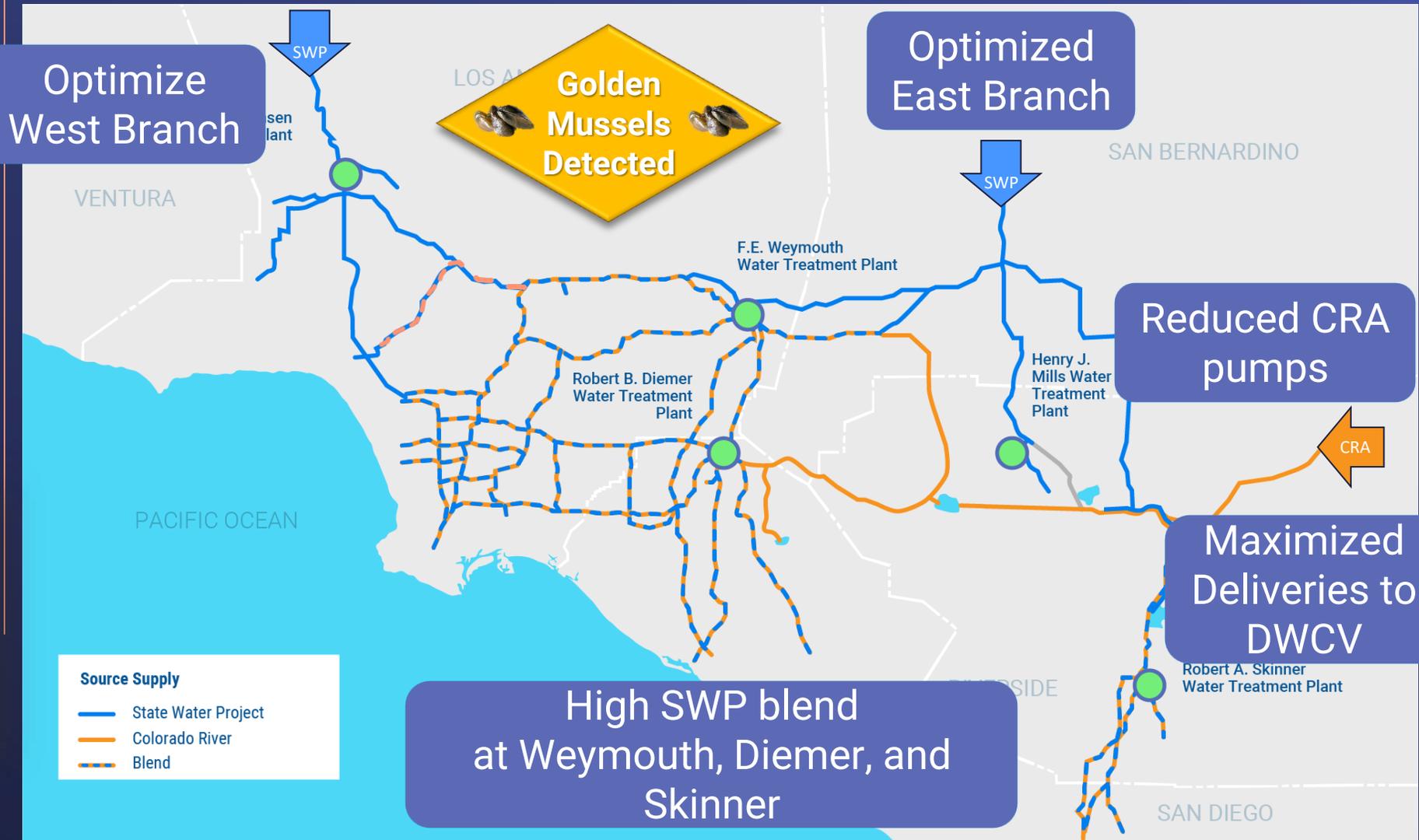
# Maximizing SWP Use while Balancing System Constraints

2025  
SWP Allocation  
50%

End of 2025  
Surplus  
Operations



Maximizing Deliveries to DWCV



# 2025 System Operations A Year in Review

## Outline

- Hydrologic Conditions
- System Operations
- **Operational Challenges**
- Emergency Response
- 2026 Look Ahead

# Operational Challenges: Aging Infrastructure

Ensuring reliable CRA operations with continuous maintenance

**Metropolitan Service Area**

**Pacific Ocean**

**California**

**Aqueduct**

**Eagle Mt. Pumping Plant**

**Electrical Work**

**Gene Pumping Plant**

**Intake Pumping Plant**

**Iron Mt. Pumping Plant**

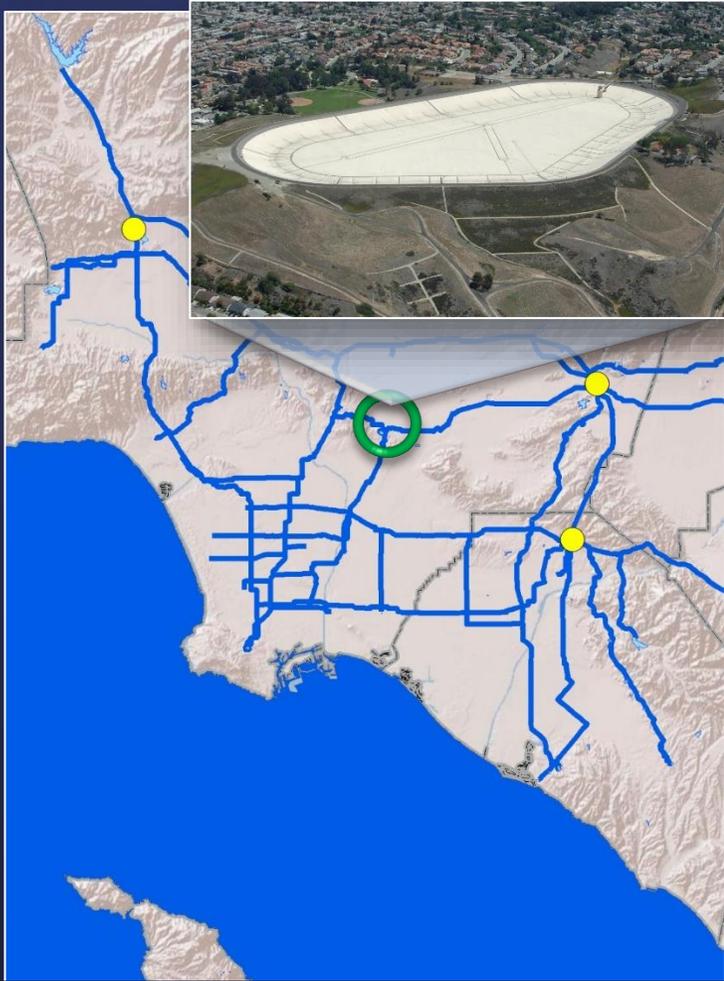
**Discharge Valve Repair**

**Hinds Pumping Plant**

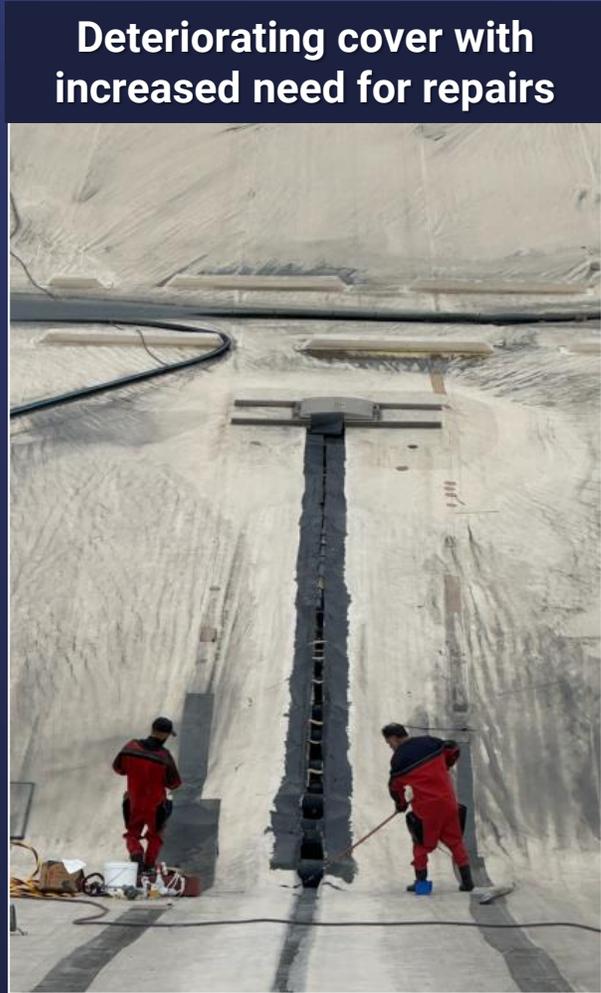
**Transformer Oil Leak**

# Operational Challenges: Aging Infrastructure

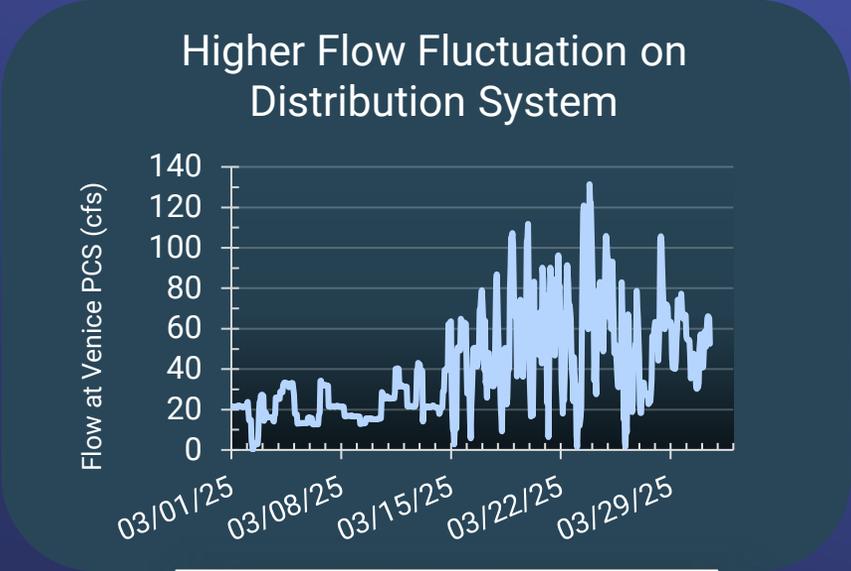
## Maintaining reliable operations while awaiting Garvey Reservoir cover replacement



Garvey Reservoir (Central Pool)



Deteriorating cover with increased need for repairs



Garvey Reservoir Cover Failure March 2025

# Operational Challenges: Aging Infrastructure

## Addressing urgent repairs of Lake Mathews Tower 1 gate



**Equipment Setup at Lake Mathews Junction Shaft**



**Dive for Lake Mathews Tower 1**



**Pumping into the Lake Mathews Forebay**



**Flange Removal at Lake Mathews Forebay**



**Cleaning of Lake Mathews Forebay**

# Golden Mussels Detection and Impact

## State Water Project Invasive Mussel Control



Golden Mussels at O'Neill Forebay  
(Photo Credit: DWR)





# Evaluating and Implementing Mussel Control Strategies and Plans

## Multi-Disciplinary Task Force

Engineering  
Water Quality  
Water Treatment  
Environmental Planning  
Operations Planning  
Conveyance & Distribution  
Regulatory Services  
Legal  
External Affairs



**Monitoring**



**Inspecting**



**Acquiring Equipment and Supplies**

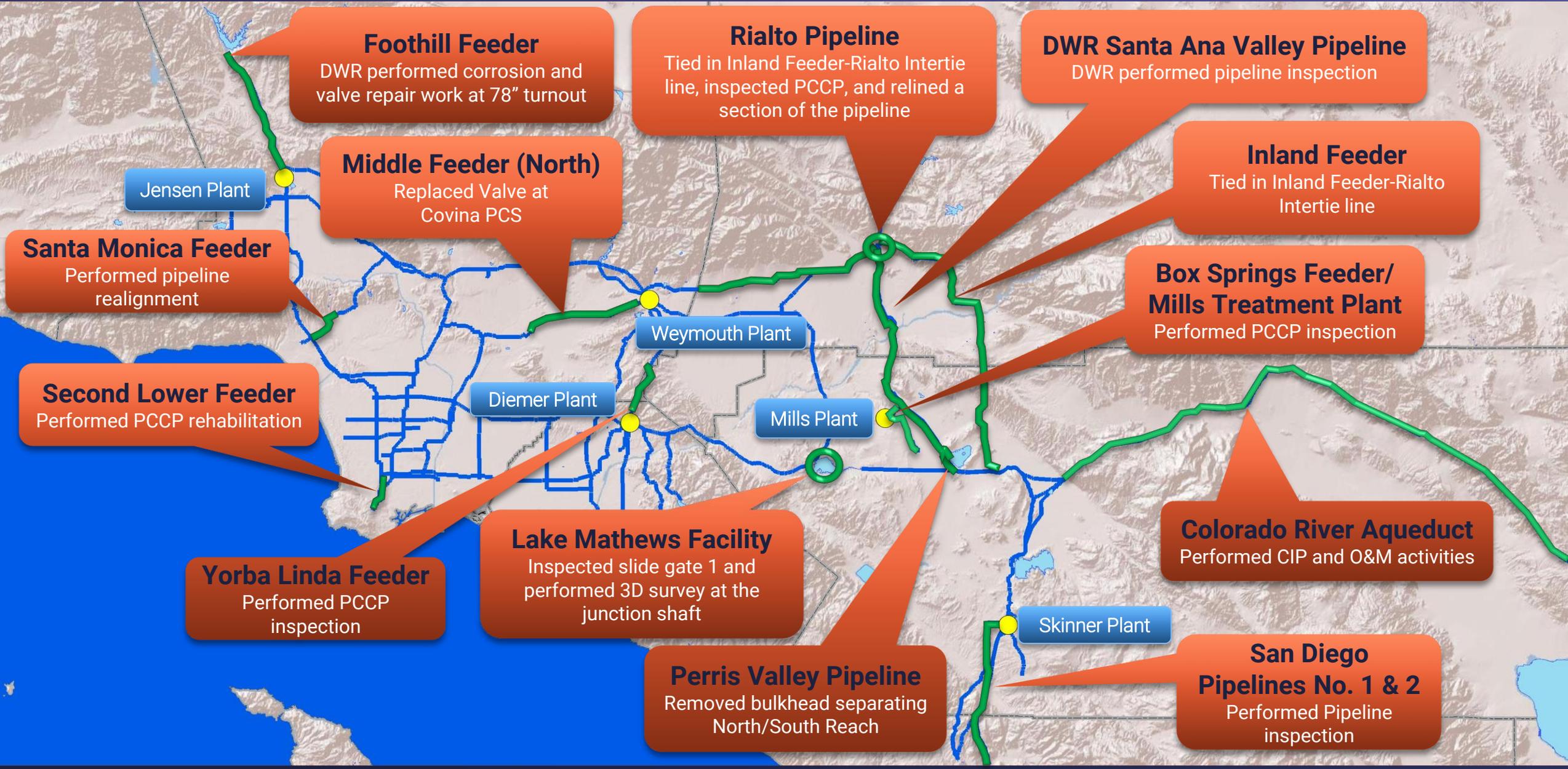


**Resuming Groundwater Replenishment Deliveries**



**Protecting Treatment Plants**

# Ensuring Continued System Reliability



## Foothill Feeder

DWR performed corrosion and valve repair work at 78" turnout

## Rialto Pipeline

Tied in Inland Feeder-Rialto Intertie line, inspected PCCP, and relined a section of the pipeline

## DWR Santa Ana Valley Pipeline

DWR performed pipeline inspection

## Middle Feeder (North)

Replaced Valve at Covina PCS

## Inland Feeder

Tied in Inland Feeder-Rialto Intertie line

Jensen Plant

## Santa Monica Feeder

Performed pipeline realignment

## Box Springs Feeder/ Mills Treatment Plant

Performed PCCP inspection

Weymouth Plant

## Second Lower Feeder

Performed PCCP rehabilitation

Diemer Plant

Mills Plant

## Lake Mathews Facility

Inspected slide gate 1 and performed 3D survey at the junction shaft

## Colorado River Aqueduct

Performed CIP and O&M activities

## Yorba Linda Feeder

Performed PCCP inspection

Skinner Plant

## Perris Valley Pipeline

Removed bulkhead separating North/South Reach

## San Diego Pipelines No. 1 & 2

Performed Pipeline inspection

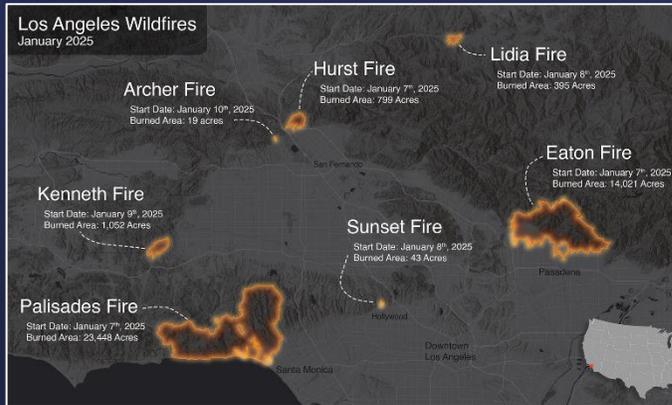
# 2025 System Operations A Year in Review

## Outline

- Hydrologic Conditions
- System Operations
- Operational Challenges
- **Emergency Response**
- 2026 Look Ahead

# Wildfire Challenges and Metropolitan's Emergency Response

## January 2025 Wildfires



**Activated Emergency Operations Center**



**Wetting the Perimeter of Sepulveda PCS**



**Cleared Vegetation for Defensible Space**



**Assistance to Impacted Agencies**



**Fuel Tank for Standby Generator Support**



**Water Truck Refilling Station**

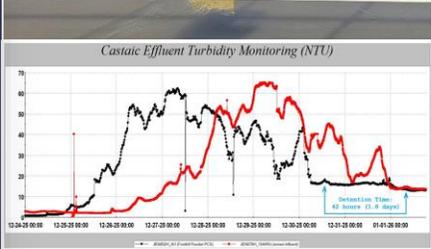
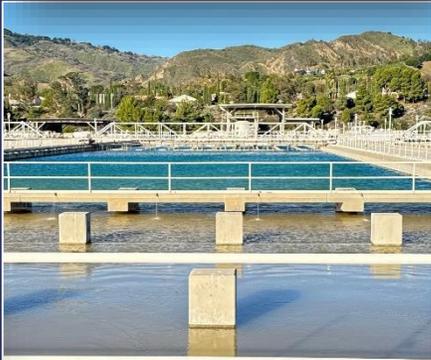
# Safeguarding the Public's Drinking Water

## Ensuring Reliable Water Quality

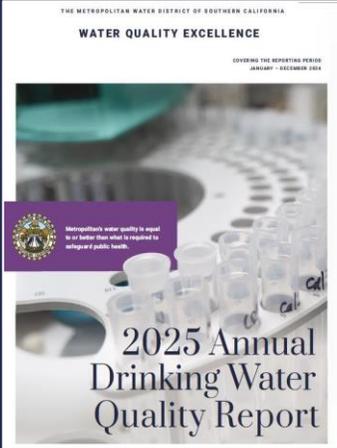
Metropolitan's water quality is equal to or better than what is required to safeguard public health



**Naming the Water Quality Lab in honor of Dr. Michael J. McGuire**

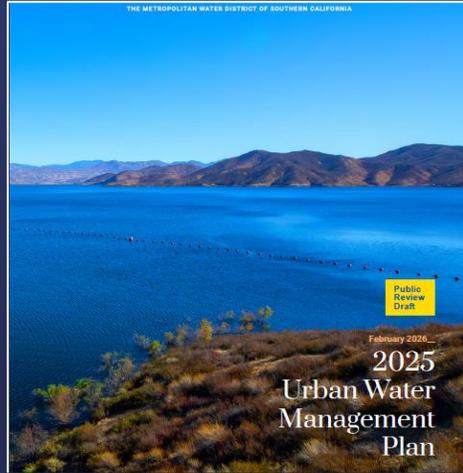


**High turbidity at Jensen due to rainstorms in December 2025**



**Heather Collins began her term as AWWA President in June 2025**

# Success through Teamwork



**Planning**



**Leading**



**Engineering**



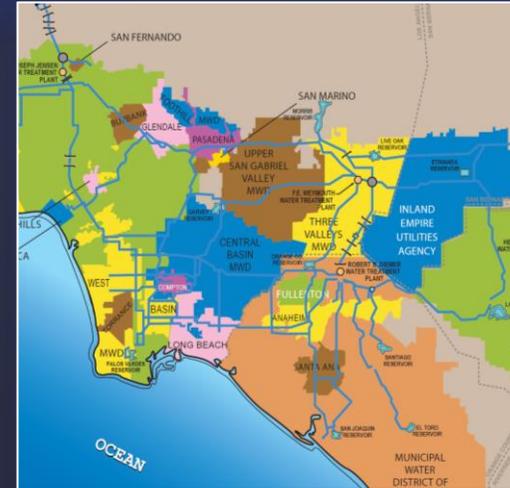
**Constructing**



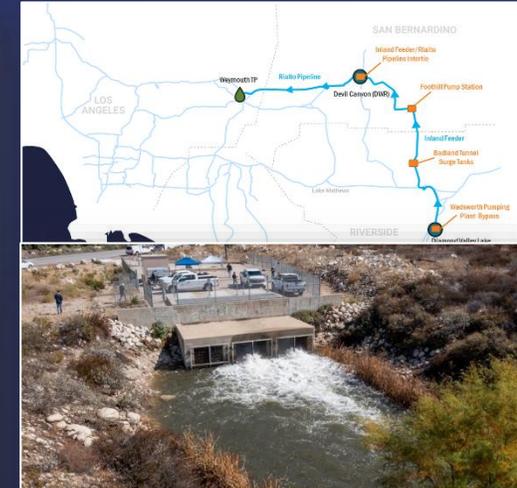
**Operating**



**Maintaining**



**Partnering**



**Innovating**

# 2025 System Operations A Year in Review

## Outline

- Hydrologic conditions
- System Operations
- Operational challenges
- Emergency Response
- **2026 Look Ahead**

# What will 2026 bring?

January 2026: No Drought in California

January 2022



January 2026



Metropolitan staff is prepared for drought to surplus conditions and will continue working to improve the reliability of the region today, tomorrow, and long into the future.

