



Engineering & Operations Committee

# Pure Water Southern California Quarterly Update

Item 6c

September 12, 2022

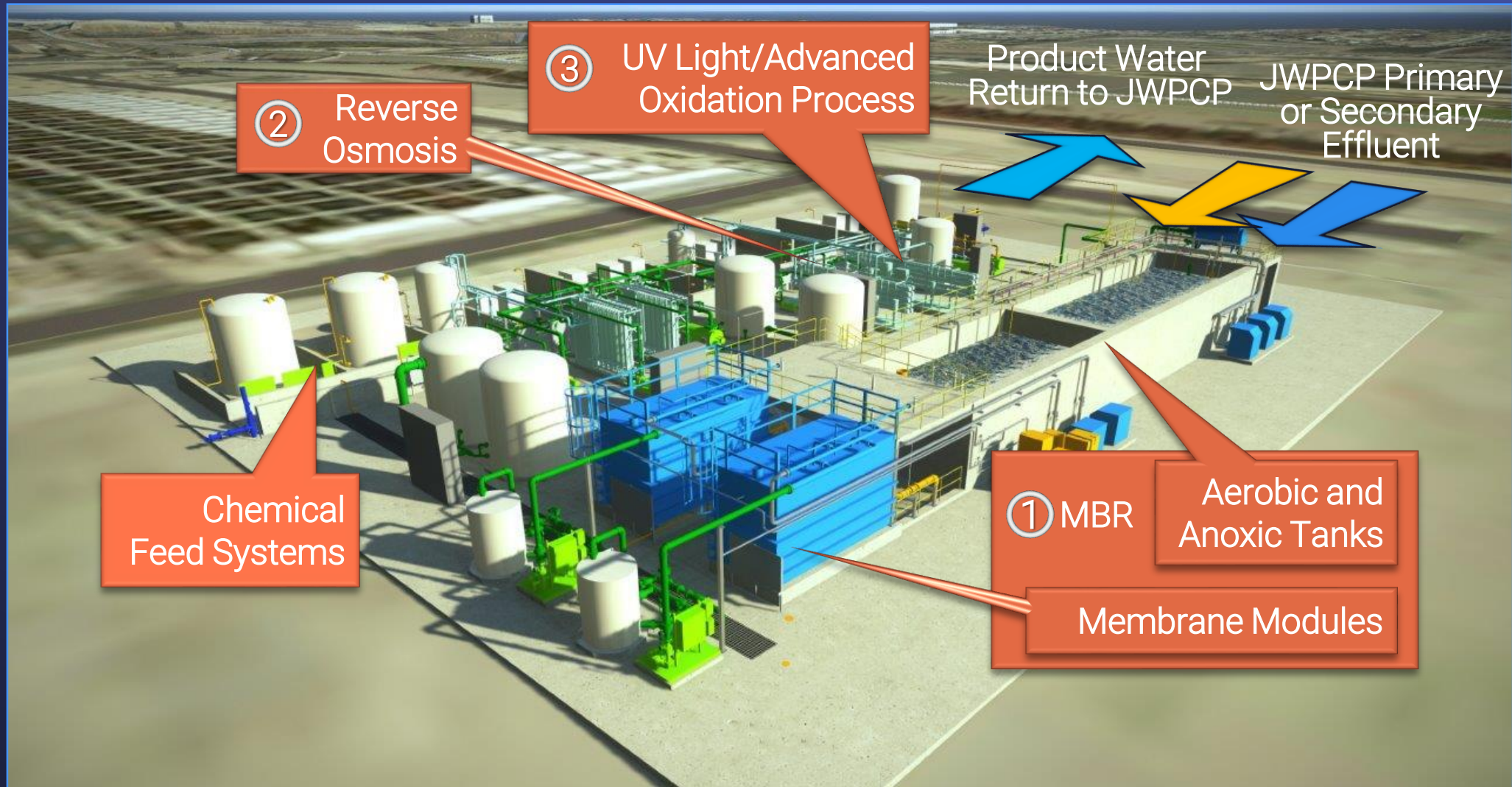
# Pure Water Southern California Quarterly Update

## Outline of Activities

- Demonstration Plant
- DPR Planning Efforts
- Program Elements
- Agency Coordination
- CEQA
- Funding
- Outreach
- Next Steps



# Demonstration Facility





## Pure Water Demonstration Plant

## Demonstration Plant Activities

- Acclimating bioreactor
- Conducting microbial sampling
- Replacing membrane units
- Calibrating instrumentation





Pure Water  
Demonstration Plant

Demonstration  
Plant Activities

- Performing critical maintenance
- Programming control system
- Aligning facility improvements
- Collaborating with LASCD, staff, and equipment vendors



September 12, 2022



Engineering & Operations Committee



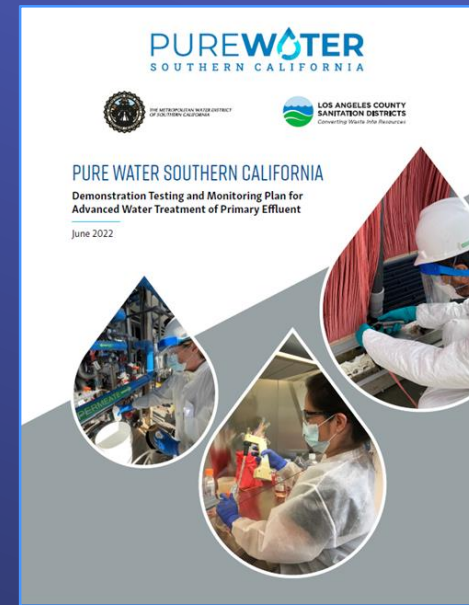
Item # 6c Slide 5

# Demonstration Plant Activities

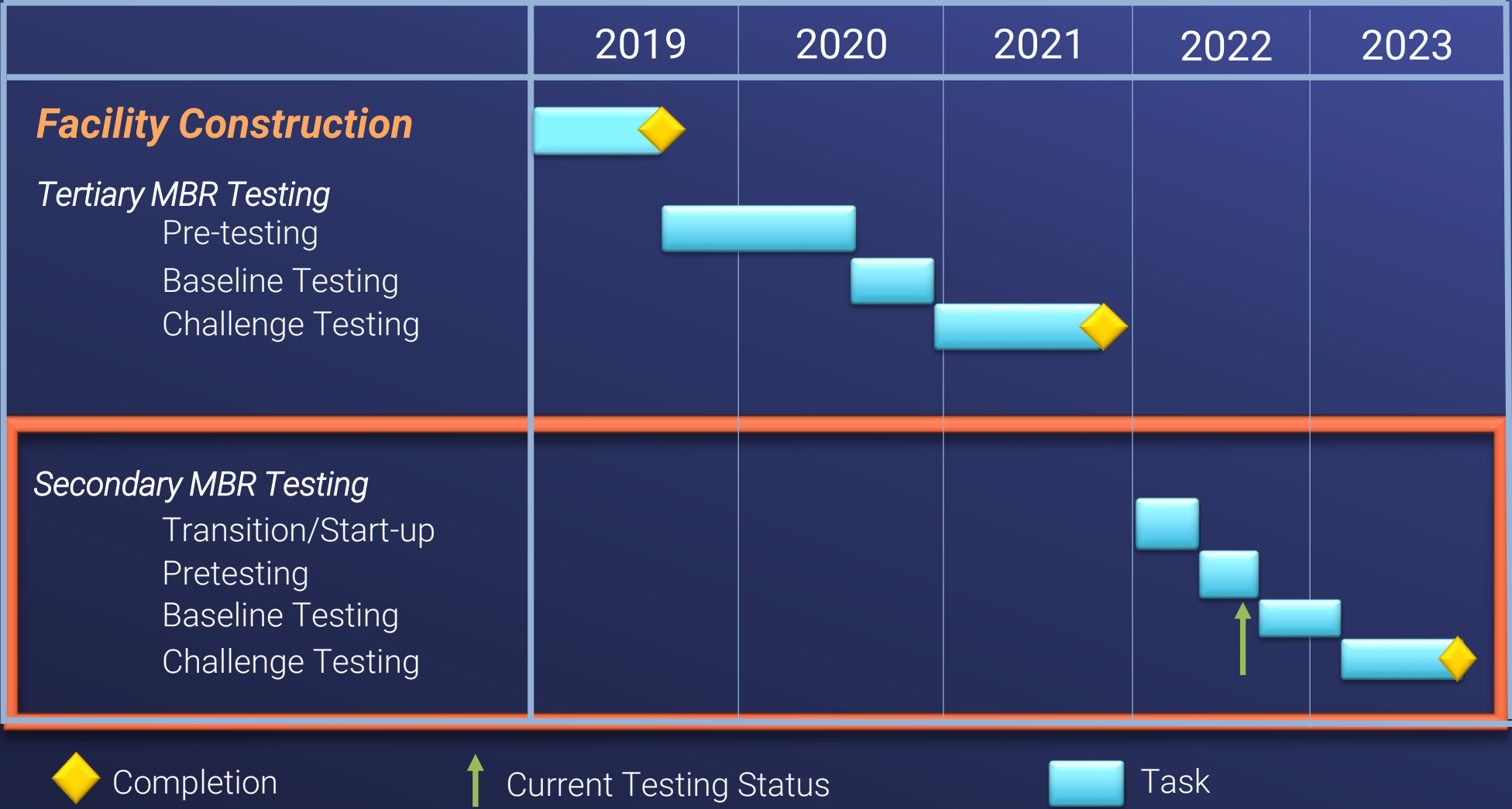
## Secondary MBR Testing



- Regulatory
  - Approval of Test Plan
  - Permit from SCAQMD
- Treating primary effluent from LACSD
- Potential for operational efficiencies and cost savings
- Secondary MBR demonstration testing results informs treatment process selection
  - Builds on tertiary MBR testing results
  - Supports LACSD's JWPCP technical evaluations



# Demonstration Plant Testing Schedule



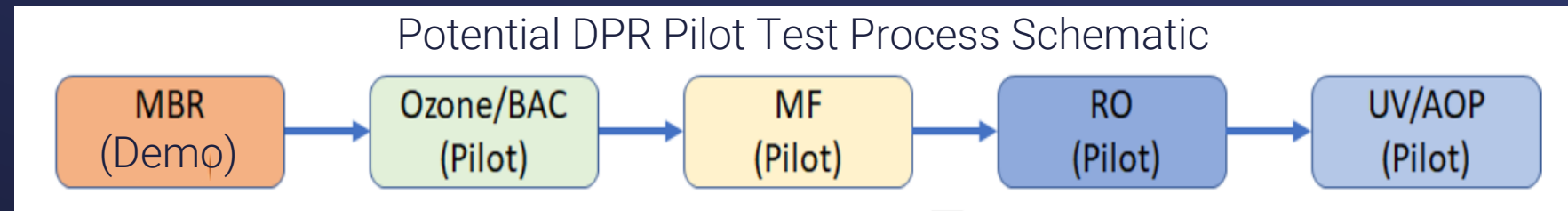


## Direct Potable Reuse (DPR) Planning Efforts

Division of Drinking Water will finalize California's DPR regulations in 2023

Metropolitan is evaluating DPR approaches for the Pure Water Southern California Program

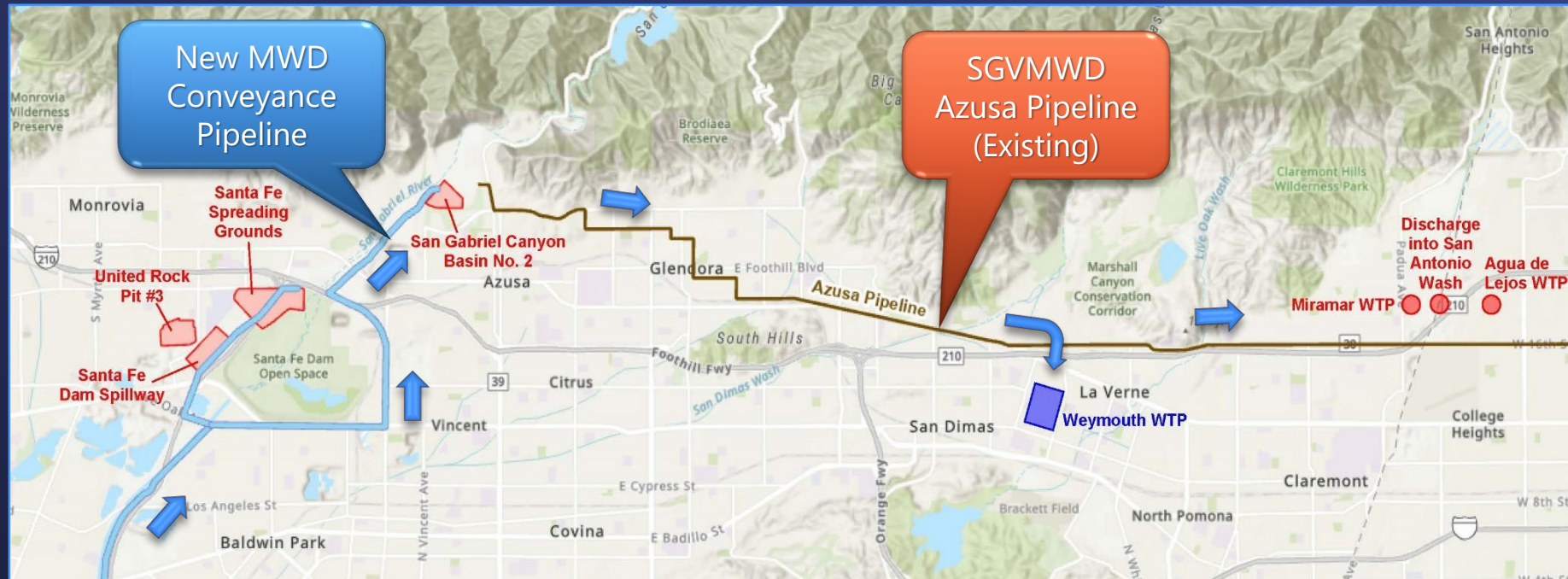
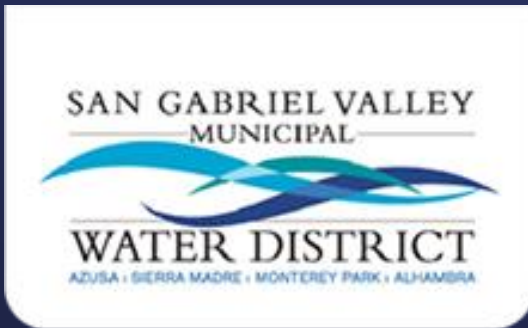
- Participating with WateReuse California workgroup; engaging state regulators on DPR criteria development
- Preparing DPR research plan to guide Metropolitan implementation
- Evaluating DPR environmental impacts for CEQA
- Planning and developing process design approach for DPR pilot testing in 2023/24





## Agency Coordination

- San Gabriel Valley MWD coordination
  - Finalized LOI (6/22)
  - Replenishment at San Gabriel Canyon Spreading Grounds
  - Evaluating use of SGVMWD's Azusa Pipeline (reverse flow) for conveyance to Weymouth for DPR
- Potential for purified water deliveries to Three Valleys MWD and Inland Empire Utilities Agency



# CEQA Activities

- **Current Environmental Studies**

- Biology
- Air Quality
- Cultural and Tribal Resources
- Geology, Soils and Paleontology
- Hazards and Hazardous Materials
- Jurisdictional Delineation, Traffic, Air Quality
- Noise
- GHG Emissions and Energy
- Transportation

- **Tentative Schedule**

- Notice of Preparation and Scoping: Fall 2022
- Draft Program EIR Public Review: Early 2023
- Final Program EIR Certification: Spring 2024



# Potential-Early Start & Early-Delivery Opportunities

## Early-Delivery Projects

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- ❖ **Designs for Early Delivery facilities**
  - 1-2 mgd Title 22 recycled water supplies for local use
  - Up to 30 mgd AWT treatment and associated facilities
  - Up to 6.5 miles of pipeline through City of Carson
  - Early delivery connections to LACSD, LADWP, WBMWD

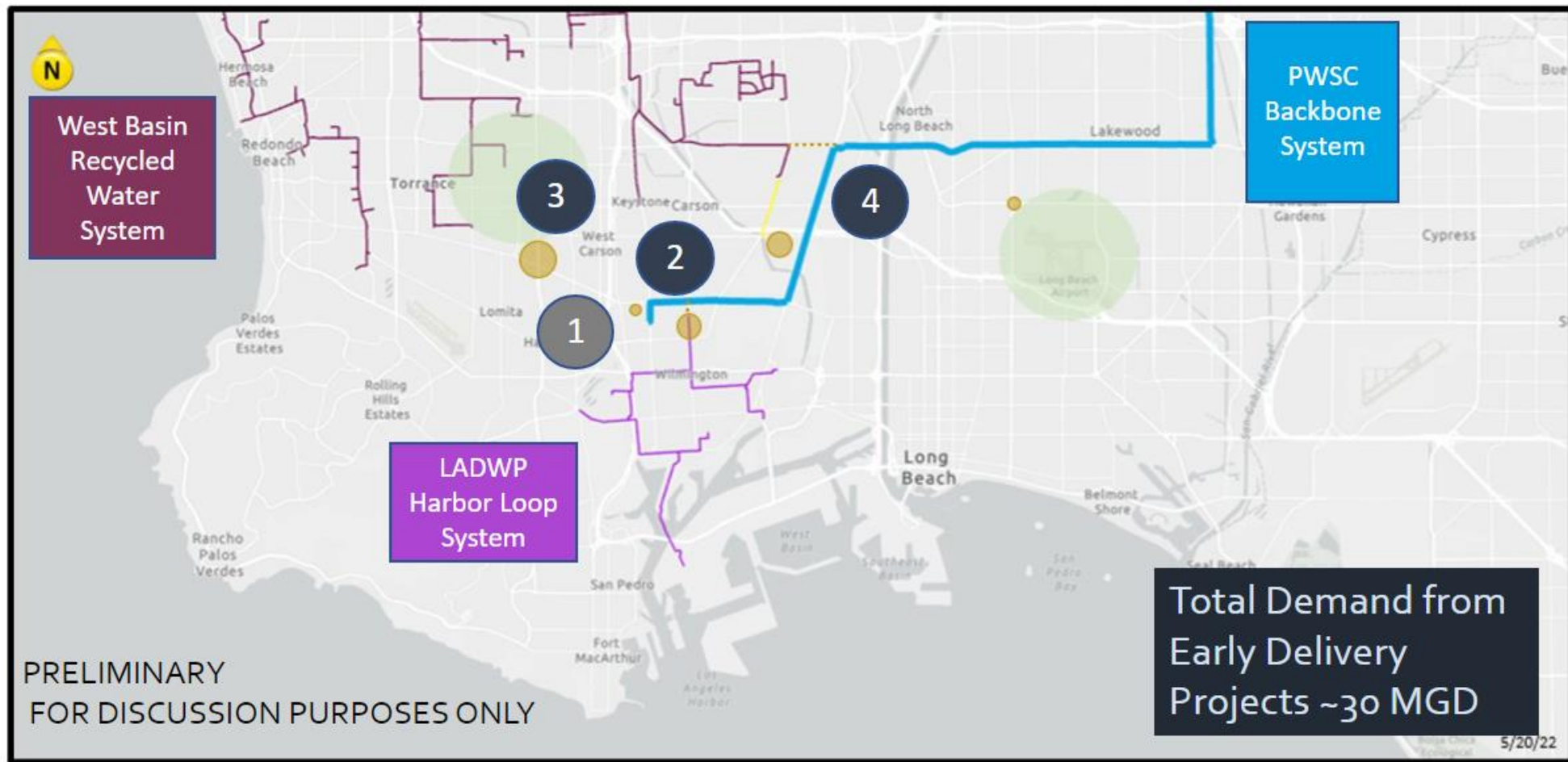
## Early-Start Activities (Pre-CEQA completion)

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- ❖ **Program Management support**
- ❖ **Preliminary Designs:**
  - Santa Fe Area conveyance
  - Portions of tunneling for conveyance alignment
  - Portions of conveyance alignment as cities approve alignment
  - AWT site preparation



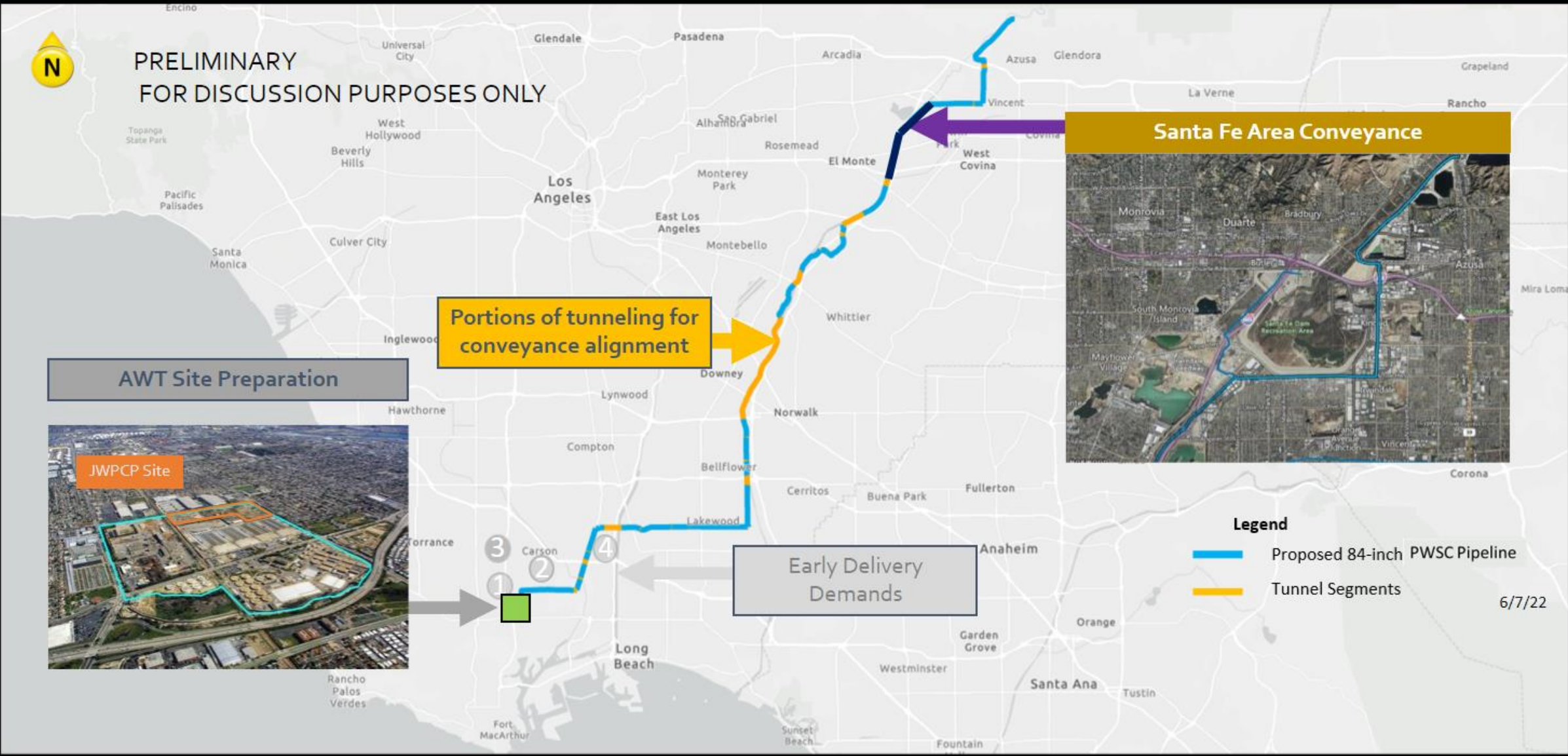
# Potential Early Delivery Demands



- 1 Title 22 LACSD/Carson "Campus+"
- 2 Connection to LADWP Loop System/LB Harbor
- 3 WRD Inland Injection Wellfield
- 4 West Basin Refinery

Pure Water Southern California  
Potential Service Connection Locations  
for Early Delivery Opportunities

# Potential Early Start Projects



## Summary

# PWSCA State and Federal Funding



## State

- \$665 M various water recycling funding for Fiscal Years 2021-22, 2022-23 and 2023-24
- \$80 M direct earmark funding for Metropolitan's PWSCA in the budget; Governor needs to sign
- Funds for competitive grants for DPR-related work

## Federal

- Potential funding to consider (new large-scale water recycling (LSWR), Title XVI grants, WIFIA or CWSRF (low-interest loans))
- New LSWR program guidelines ~Fall 2022



# Outreach Highlights



Congresswoman Napolitano & USBR  
Commissioner Touton tour  
demonstration plant



Planning for our Water Future:  
Pure Water Southern California  
Environmental Listening Session

August 22, 2022

**PUREWATER**  
SOUTHERN CALIFORNIA

Environmental Listening Session

## Outreach Highlights

- AB 1845 passes through legislature
- New branding for Pure Water Southern California
- Outreach update scheduled for October's C&L Committee meeting





## Program Schedule





# Next Steps & Potential Milestones

- Commence Demo Plant sMBR baseline testing
- Issue NOP, conduct scoping meetings, continue outreach
- Complete Cost of Service analysis
- Conduct Board workshops/discussion on program/rates
- Prepare Board action to capitalize program
- Continue pursuit for State and Federal grants
- Incorporate Early Start/Delivery projects into Program



## Key Actions

## Timeframe

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Board action to include Pure Water SC in the CIP

Dec. 2022/1<sup>st</sup> Quarter 2023

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PM support consultant on-board

1<sup>st</sup> Quarter 2023

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Early-delivery water agreements framework

2<sup>nd</sup> Quarter 2023

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Early Delivery/Start design consultants on-board

Mid 2023

# Recycled Water Staff Person of the Year

WATEREUSE CALIFORNIA 2022 AWARD WINNERS – September 12, 2022

*Congratulations*  
**Joyce  
Lehman**

Principal Engineer/  
Interim Team Manager

Water Reuse  
Development Team  
Water System Operations

