



# Potential Regional Recycled Water Supply Program

Water Planning & Stewardship Committee

Item 9-1

September 21, 2015

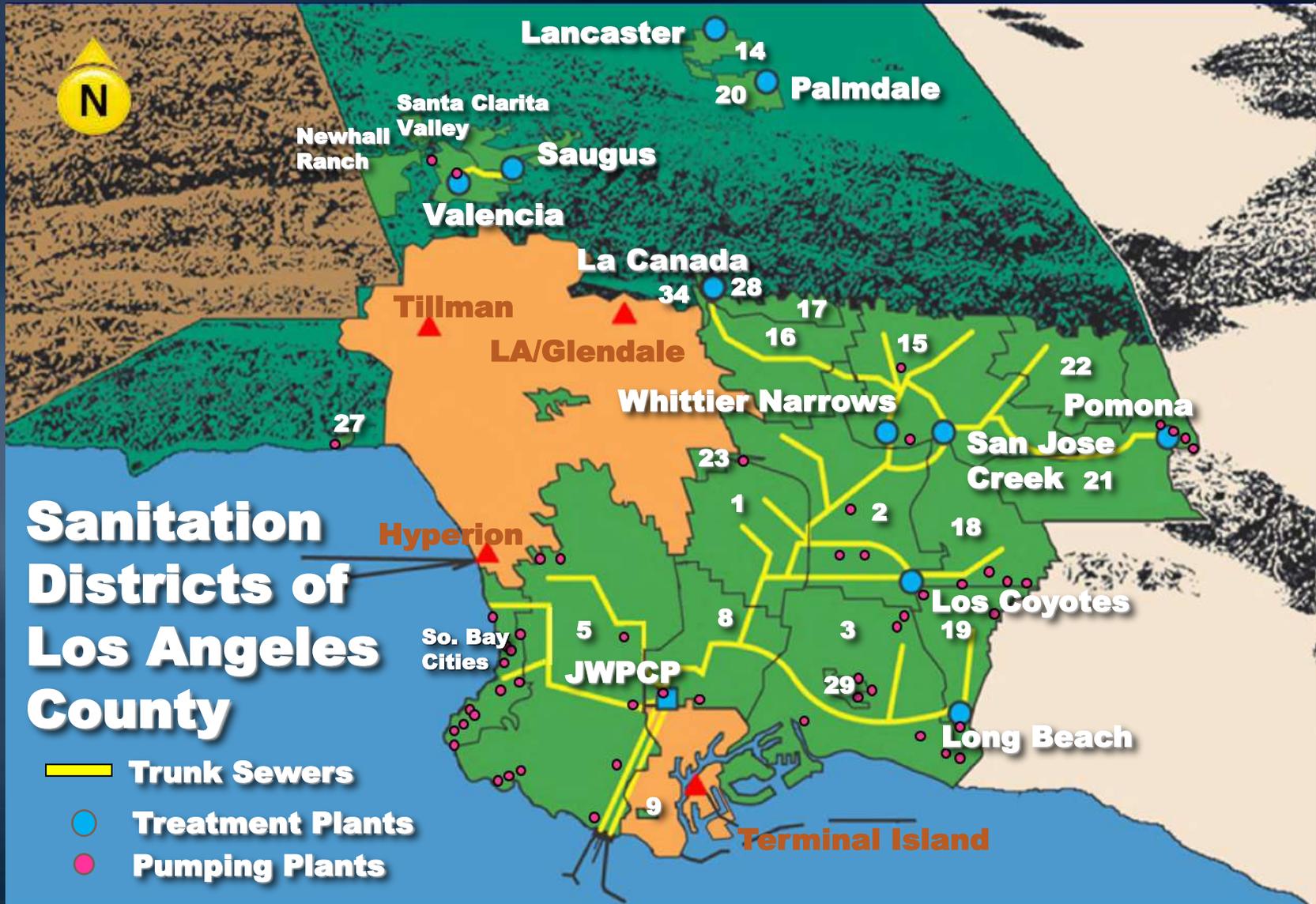
# Current Opportunity for Regional Program

- Development of new regional water supply
  - Deliveries for recharge of GW basins
  - Increased diversity consistent with IRP
    - Conservation
    - Desalination
    - Recycling
    - Stabilization of imported water supplies
- Collaborative partnership between Metropolitan & LACSD
  - Similar to OCWD/OCSD GW Replenishment System (GWRS) agreement

# Metropolitan & LACSD

- Two regional special districts
- Decade of discussions on water recycling
  - 2010/12 - Pilot studies on treatment feasibility
  - 2015 - Discussions on a potential partnership
- Regional recycled water program at JWPCP for indirect potable reuse
  - Phased approach
    - Initial demonstration phase
    - Several operational phases possible up to 150 MGD

# LACSD Service Area



# Joint Water Pollution Control Plant



# Objectives for Each Agency

- LACSD

- Increase overall reuse within its system
- Begin beneficial reuse at the Joint Water Pollution Control Plant

- Metropolitan

- Diversify regional supplies
- Improve storage & delivery capabilities
- Provide new source of high quality, drought-resistant water

# Approach to the Program

- Initial Demonstration Phase
  - 1 MGD demonstration plant
  - Feasibility studies for full scale facilities
  - Financing plan
- Phased approach to full scale facilities
- Provisions for off-ramps, if necessary

# Joint Water Pollution Control Plant



Demo  
Plant Site

Full Scale  
Plant Site

# Tentative Agreement Terms for Demonstration Plant

- Subject to each Board's approvals
- LACSD Responsibility:
  - Deliver secondary-treated water to demo plant
  - Provide land & utilities
  - Dispose of waste streams
  - Perform influent lab analyses & maintain source quality control program
- Metropolitan Responsibility:
  - Fund, design, construct, operate & maintain 1 MGD AWT demo plant

# Tentative Agreement Terms for Full Scale Facilities

- Subject to each Board's approvals
- If desired to proceed, LACSD Responsibility to:
  - Deliver secondary-treated source water to AWT plant
  - Commit to level of quality for source water
  - Implement, enforce (& strengthen if necessary) ongoing source quality control program
  - Dispose of brine & waste streams
  - Lease land for AWT plant

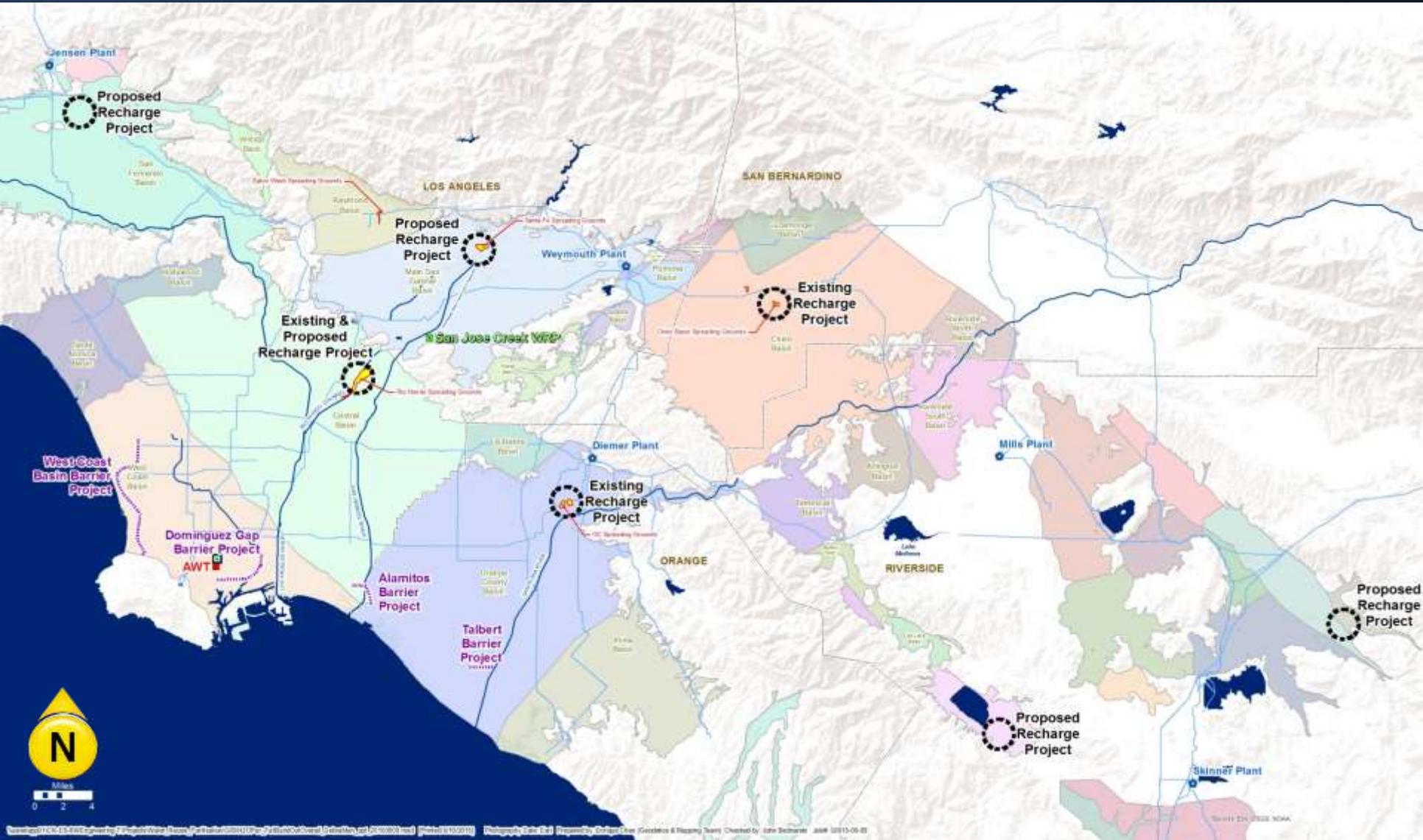
# Tentative Agreement Terms for Full Scale Facilities

- Subject to each Board's approvals
- If desired to proceed, Metropolitan responsibility:
  - Provide AWT plant & delivery system
    - Fund, design, construct, operate & maintain entire system
    - Determine phasing
  - Provide exchange water into LACSD service area
    - Approx. 1% of product water
- Sales Revenue
  - Metropolitan revenue

# Additional Considerations

- Potential State Funding
  - Grant funds & SRF low interest loans
  - Joint funding application
  - Phasing of requests to match progress of program
- CEQA Compliance for Full Scale Phase 1
  - AWT plant
  - Delivery system

# Regional Setting

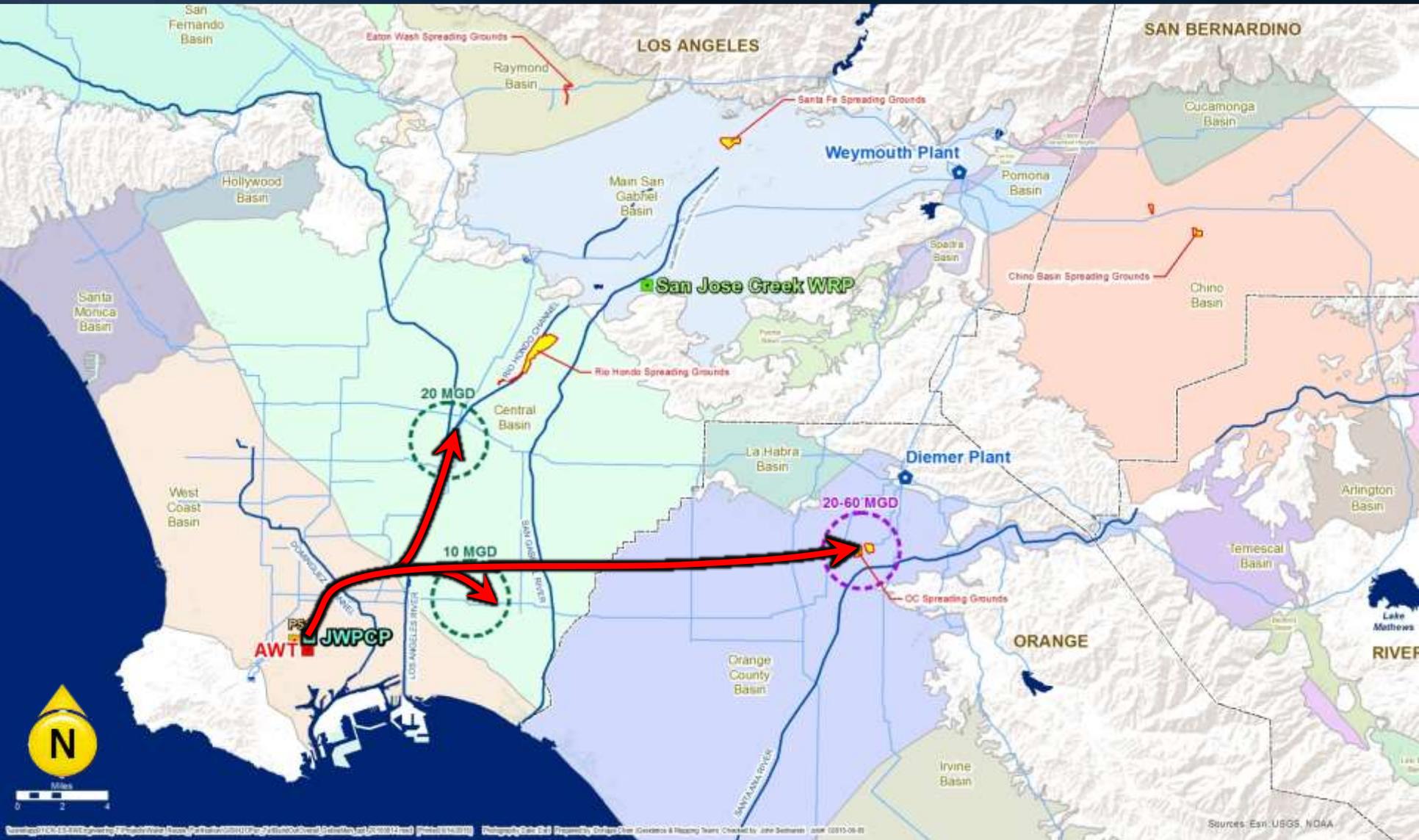


# Demonstration Phase

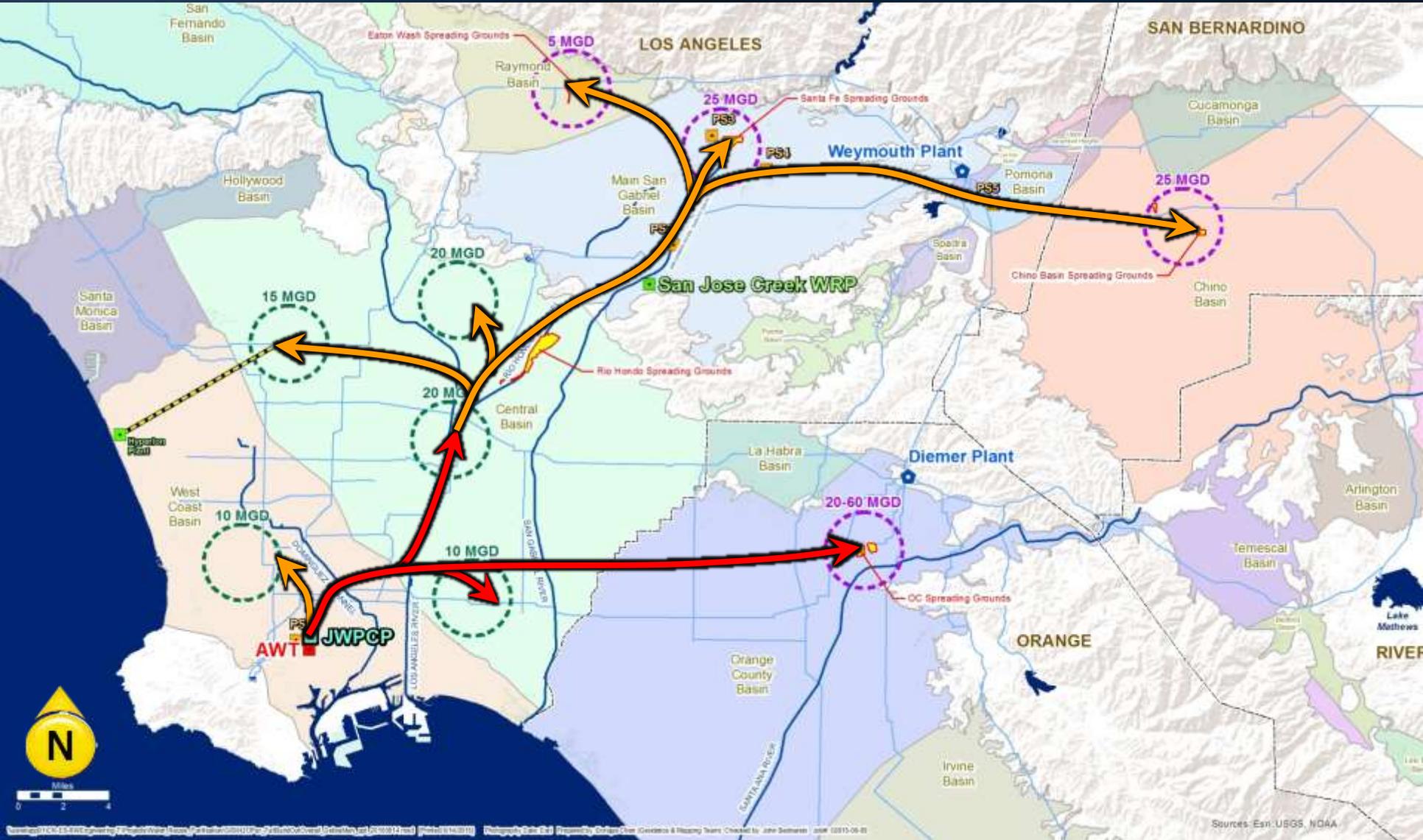


- Demo plant
- Feasibility studies
- Financing plan

# Potential Phase 1 of Program (60± MGD)



# Potential Full Program (Up to 150 MGD)



# Next Steps

- October 2015 – Board Discussion
  - Review of MOU terms
- November 2015 – Potential Board Action
  - Authorization of MOU with LACSD
  - Appropriation of funds for feasibility studies

