WATER REPLENISHMENT DISTRICT

WIN 4 ALL: Securing Regional Resiliency Through Sustainable Groundwater

SECURING OUR WATER FUTURE TODAY

THE WATER REPLENISHMENT DISTRICT SERVICE AREA

Service Area

420 Sq. Miles

43 Cities

Over 4 Million Residents

Water Demand & Supply

550,000 acre-feet used per year

50% supplied from groundwater wells

50% supplied by imported water

WRD replenishes the groundwater basins and monitors water quality

Seawater barriers & spreading grounds are owned and operated by the Los Angeles County Department of Public Works

KEY WIN PROJECTS

West Basin MWD Edward C. Little Water Recycling Facility

Increased Stormwater Capture

ALBERT ROBLES CENTER
WATER RECYCLING & ENVIRONMENTAL LEARNING

WRD Leo J. Vander Lans Advanced Water Treatment Facility

City of LA Terminal Island Water Reclamation Plant

Los Angeles
Culver City
NEWPORT-INGLEWOOD UPLIFT
Vernon
Maywood
Montebello
Montebello Forebay Spreading Grounds
Commerce
Pico Rivera
Whittier
La Habra Heights
Bell
Huntington Park
Cudahy
Bell Gardens
South Gate
Lynwood
Downey
Sante Fe Springs
Inglewood
DIVISION 1
DIVISION 4
DIVISION 5
DIVISION 3
DIVISION 2
Hawthorne
El Segundo
Manhattan Beach
Hermosa Beach
Redondo Beach
Gardena
Lawndale
Paramount
Norwalk
La Mirada
Compton
Bellflower
Cerritos
Artesia
Lakewood
West Coast Barrier
WEST COAST GROUNDWATER BASIN
GOLDSWORTHY DESALTER
CENTRAL GROUNDWATER BASIN
Torrance
Carson
Palos Verdes Estates
Lomita
Rolling Hills Estates
Rolling Hills
Rancho
Dominguez Gap Barrier
Signal Hill
Alamitos Barrier

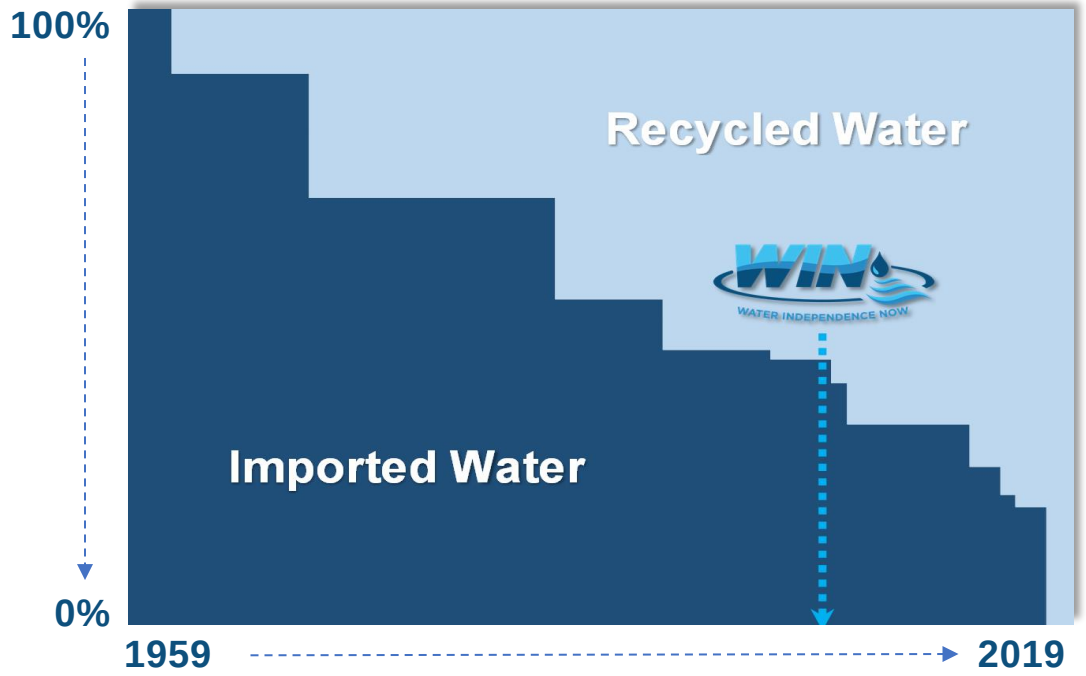
SUSTAINABLE GROUNDWATER SUPPLIES

WATER INDEPENDENCE NOW

WRD developed local sustainable and resilience of our groundwater supply through:

1. Increasing Production & Use of Recycled Water

2. Capturing & Conserving Additional Stormwater



WHAT'S NEXT?

WIN
WATER INDEPENDENCE NOW

WIN 4 ALL
THE 2040 PLAN FOR REGIONAL WATER INDEPENDENCE

COMPLETE GROUNDWATER SUSTAINABILITY

REGIONAL GROUNDWATER RESILIENCY

WEST COAST BASIN

CENTRAL BASIN

WIN 4 ALL PROCESS

1. Fully Utilize Unused Groundwater Pumping Rights and Replenish with Locally Sustainable Resources
   - *Increase Stormwater Capture*
   - *Develop New Recycled Water Supplies*
2. Use Available Groundwater Storage Space to Increase Regional Resiliency
   - *Develop Groundwater Storage Programs to Store Excess Supplies for Drier Years*
   - *Develop Groundwater Augmentation Programs to Meet Annual Water Demands*

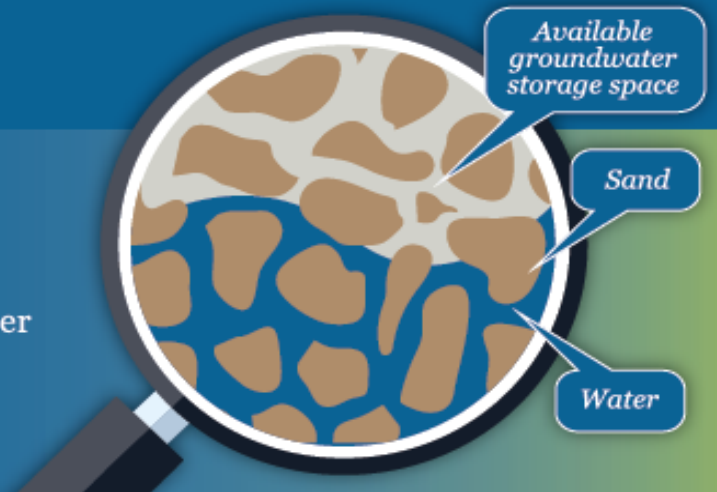
Replenishment for current pumping is entirely locally sustainable through WIN

WIN
WATER INDEPENDENCE NOW

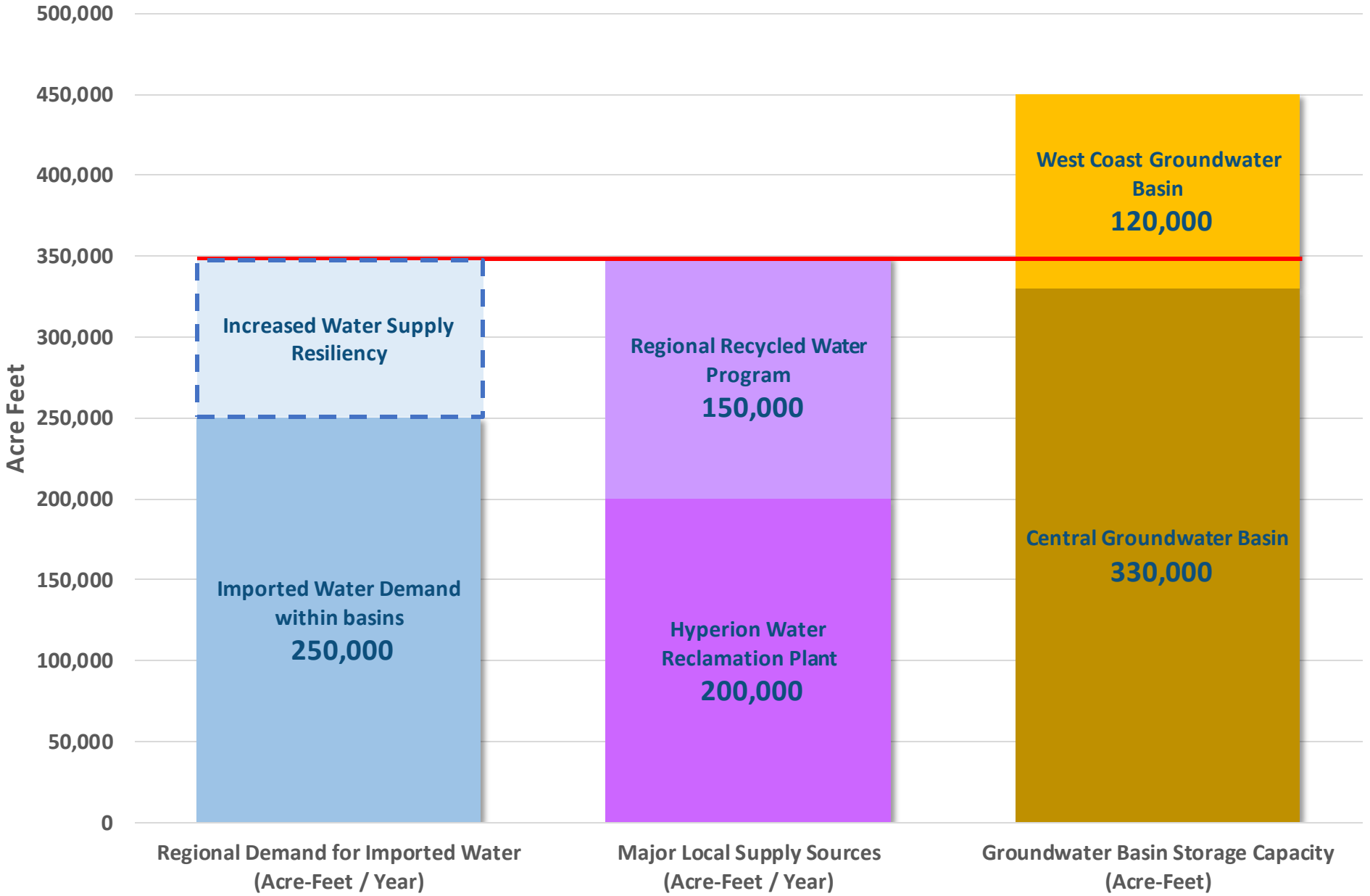
WHAT IS GROUNDWATER STORAGE?

Groundwater is stored in layers of sediment or rock beneath the surface called aquifers. Within an aquifer, the water is found in the pore spaces between sand and gravel grains or in fractures in bedrock.

When groundwater is extracted, available space is created that can be replenished either naturally or by humans with stormwater, imported water, or recycled water.



AVAILABLE STORAGE COMPARED TO BASIN DEMANDS AND SUPPLIES



WIN PROJECTS

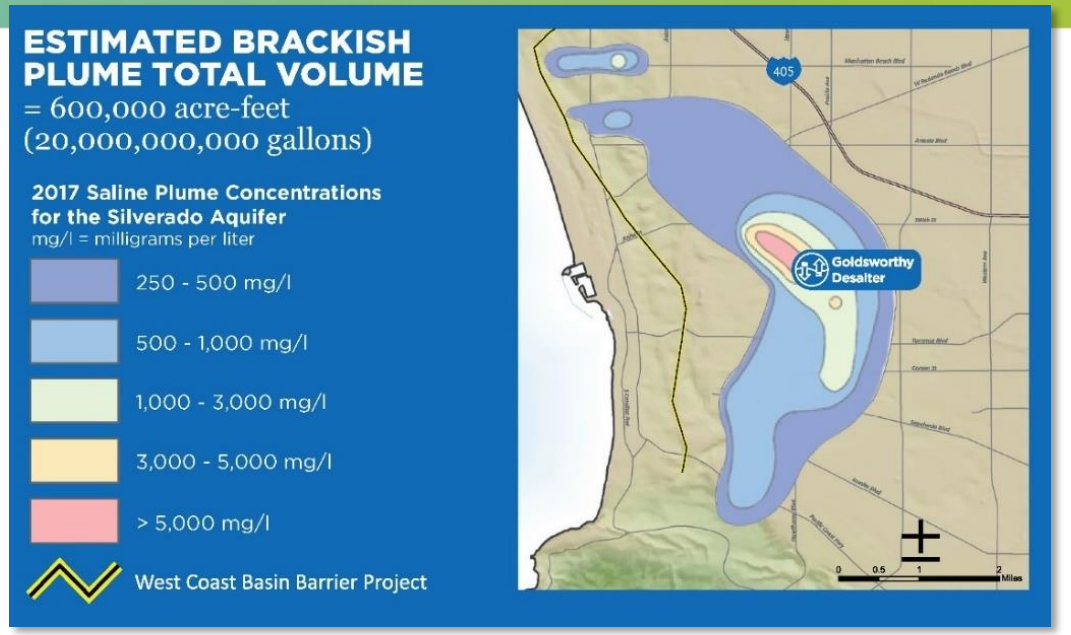
WIN 4 ALL

THE 2040 PLAN FOR REGIONAL WATER INDEPENDENCE

REGIONAL BRACKISH WATER RECLAMATION PROGRAM

A Collaborative Regional Effort to Remediate a Brackish Groundwater Plume in the West Coast Basin

- ✓ Enables pumpers to utilize unused pumping rights
- ✓ Provides a new, locally sustainable potable water supply
- ✓ Program replenishment provides a beneficial use of available recycled water sources
- ✓ Remediation enables use of available groundwater storage space (120,000 Acre-Feet)



Feasibility Study Being Completed by WRD & 7 Stakeholder Agencies

West Basin Municipal Water District
California Water Service
Torrance
City of Manhattan Beach
Los Angeles Department of Water & Power
City of Lomita
Golden State Water Company
A Subsidiary of American States Water Company

CONTAMINATION REMEDIATION & INFRASTRUCTURE IMPROVEMENTS

Safe Drinking Water Program & Disadvantaged Communities Outreach Assistance Program

- ✓ Promotes groundwater cleanup through installation of wellhead treatment at existing production wells
- ✓ Provides grants or loans to well owners
- ✓ Provides technical support for project development

Well Construction and Rehabilitation Loan Program

- ✓ Enables use of unused existing pumping rights
- ✓ Provides 0% interest loans to pumpers for well rehab or construction

NEW LOCAL WATER SUPPLY PARTNERSHIPS

Available Local Recycled Water Supplies

Hyperion Water Reclamation Plant
City of Los Angeles

Regional Recycled Water Program
Metropolitan Water District & Sanitation Districts of LA County

Los Coyotes Water Reclamation Plant
Sanitation Districts of LA County

Current Regional Partnership Planning Efforts are Underway to Evaluate Use of Available Supplies for:

Resiliency for Replenishment Demand

Groundwater Storage Projects

Groundwater Augmentation Projects