



**Central Basin**  
Municipal Water District

# Central Basin Groundwater Storage Plan: A Blueprint for Future Reliability

**Draft Program Environmental Impact Report  
Public Meeting  
November 30, 2011**

# California Constitution

## ARTICLE X WATER

*SECTION 2. “It is hereby declared that because of the conditions prevailing in this State the general welfare requires that the water resources of the State be put to beneficial use to the fullest extent of which they are capable...”*

# Meeting Objectives

- Present a summary of environmental impacts related to the proposed Central Groundwater Storage Plan
- Receive additional stakeholder input on the Draft Program Environmental Impact Report
- Discuss next steps

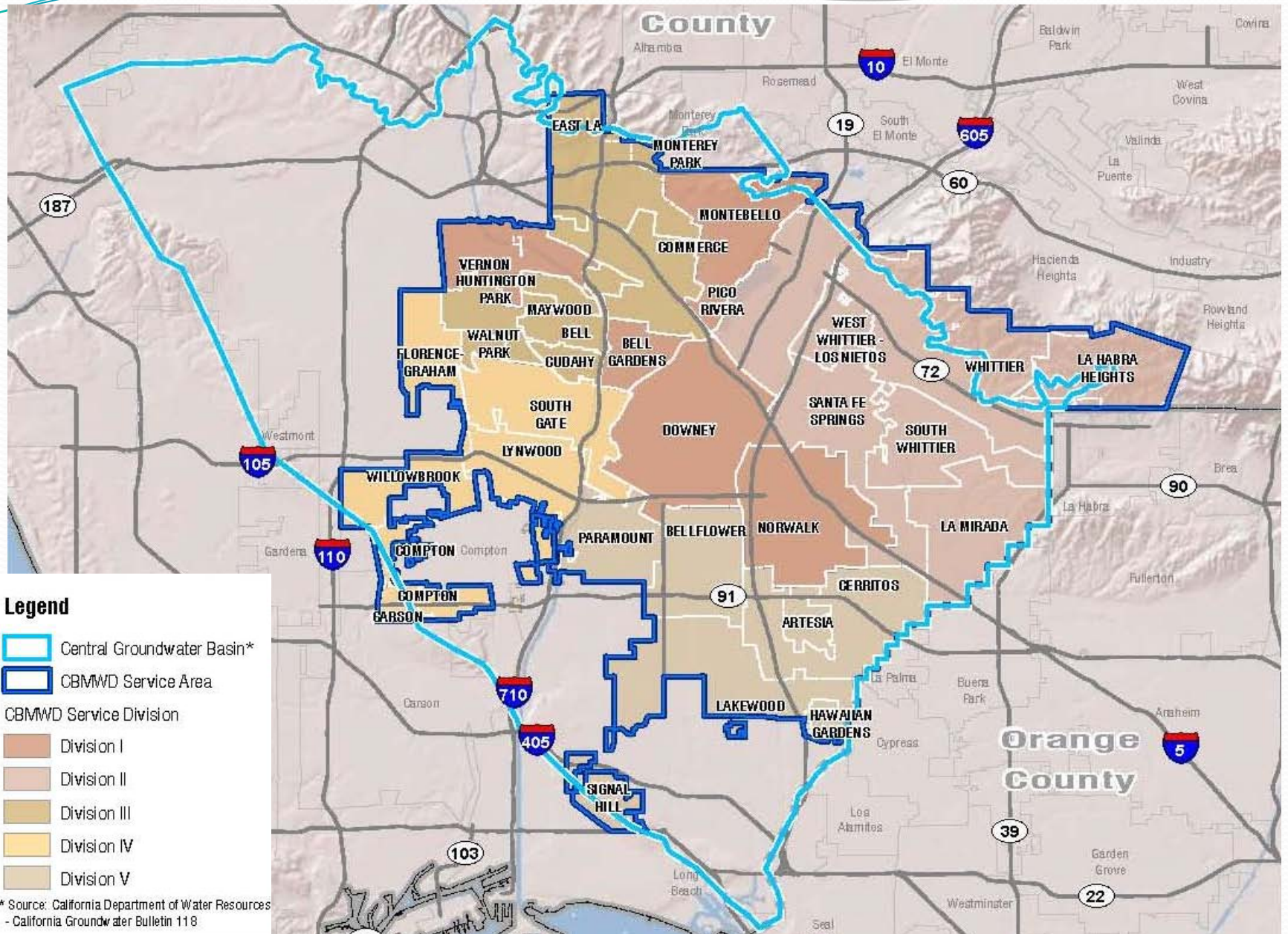
# Today's Agenda

- Describe Program location, goals and objectives
- Review Program description and water supply options
- Present Storage Overview
- Present Alternatives Considered
- Present a summary of potential environmental impacts
- Review impact findings
- Receive additional stakeholder input and discuss relevant issues
- Review CEQA process and present next steps

# Program Location

Primarily encompasses the Central Basin bounded as follows:

- The southeast by the San Joaquin Hills and Santa Ana Mountains
- The northwest by the Santa Monica Mountains
- The west by the Newport-Inglewood Fault Zone and the West Coast Basin
- The northeast by the Whittier Fault Zone



**Legend**

Central Groundwater Basin\*

CBMWD Service Area

CBMWD Service Division

Division I

Division II

Division III

Division IV

Division V

\* Source: California Department of Water Resources  
- California Groundwater Bulletin 118

# Program Goals

- Implement a water resources program to improve water supply reliability throughout the Central Basin.
  - Preserves local decision-making authority and local water rights
  - Insulates local resources from the full impact of potential regional and statewide droughts, or long term water supply emergencies
- Promote improved Central Basin water management through:
  - Groundwater management
  - System improvement
  - Further integration of surface water and groundwater supplies

# Program Objectives

- Provide affordable, high-quality water supplies to support a diversified and stable economy and preserve environmental values in the Basin.
- Improve Basin-wide water supply reliability under dry-year hydrologic conditions and extended droughts.
- Improve local and regional control of water resources in the Basin.
- Increase flexibility to use alternative sources of supply during droughts or emergencies.
- Develop guidelines to encourage efficient water use.
- Ensure that water policy and programs in California and elsewhere, that are outside of the CBMWD's control, do not disproportionately impact low income or minority populations within the CBMWD's service area.

# Preferred Program Description

- Establish a water management and storage program for the Central Groundwater Basin
- Once fully implemented, the program(s) will use a portion of the available storage space in the Basin
- Acquire water that will be stored in the Basin
- Storage would generally serve short-term carryover, emergency and the pre-delivery needs of local water agencies, purveyors and their customers

# Water Supply Options

Water for the proposed Program may come from a combination of supplies, including but not limited to:

- Imported Water
- Recycled Water
- Contaminated Groundwater Remediation and Recovery
- Conservation
- Gray Water
- Storm Water Capture
- Desalination

# Storage Overview



- Total Storage Needed: 300,800 AF
  - Includes 53,000 AF for Other Agencies (e.g., Cities of Compton, Long Beach and Los Angeles)

# Short-term Carryover



- Specified in the Judgment
- Helps the Central Basin pumpers balance seasonal demand peaks with available supplies and address operational issues.
- 40% of 217,367 AFY
- 87,000 AF

# Emergency Supplies



- Water needed in the aftermath of a regional emergency
- 6 months of potable water allocation
- 50% of 80,400 AFY
- 40,200 AF

# Pre-delivered






- Meet potential 50 percent reduction in treated imported water allocation for three consecutive years
- 50% of 80,400 AFY for 3 years
- 120,600 AF

# Alternatives Considered

- Alternative 1: Groundwater Storage
  - Considers groundwater storage utilizing imported water, recycled water and stormwater for surface spreading and subsurface injection.
- Alternative 2: Aggressive Conservation
  - Emphasizes water conservation and gray-water use to reduce water demands.
- Alternative 3: On Demand Treatment
  - Emphasizes use of more treated recycled water, seawater desalination, brackish water desalination and treatment of contaminated groundwater as potential supply options.

# Comparison of Alternatives

Program Objectives	Groundwater Storage	Aggressive Conservation	On-Demand Treatment	No Project
Affordable/High Quality Water				
Reliability				
Local Control				
Flexibility				
Water Use Efficiency				
Environmental Justice				

# Impact Assessment Methodology

- Maximum Constraining Facilities (a.k.a. most conservative analysis)
  - Portfolio of 28 options developed for implementation of Groundwater Storage Alternative
    - e.g., Imported water delivered via MWD system injected into Central Basin using wells or percolated using spreading basins
    - e.g., Divert stormwater and deliver to subsurface infiltration cisterns
  - Determine most “environmentally impactful” infrastructure for each option
    - e.g., 50 acres of land required for spreading basins, up to 30 feet deep needed to spread imported water
  - Assume each supply option (i.e., imported, recycled, stormwater) would supply 100% of water needed to realize the proposed Program need

# Impact Categories Considered in the Draft PEIR

- Aesthetics
- Agricultural and Forestry
- Air Quality and Green House Gases
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Parks and Recreation
- Utilities and Public Services (Schools)
- Environmental Justice

# Impact Findings

- Less than Significant Impacts

- Agricultural and Forestry
- Land Use and Planning
- Environmental Justice

- Less than Significant Impacts with Mitigation

- Aesthetic Resources
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Parks and Recreation
- Utilities and Public Services (Schools)

# Impact Findings (continued)

- Significant and Unavoidable Impacts
  - Air Quality and Greenhouse Gas Emissions
    - *Although mitigation measures have been identified to the extent feasible, for all of the potentially significant impacts of the proposed Program, one impact would remain significant and unavoidable. The proposed Program would result in a significant and unavoidable impact to air quality during construction of infrastructure required to implement the Program.*

# CEQA Process

- Publish Notice of Preparation (NOP) and Initial Study
  - Scoping Meetings
  - 45-day Scoping Period
  - Scoping Meetings (March 8, 2011 and March 29, 2011)
- Re-circulate NOP with expanded Project Description
  - Distribute NOP (July 21 2011)
  - Stakeholder Workshop (July 27, 2011)
- Publish Draft Program Environmental Impact Report (PEIR)
  - 45-day Public Review Period (November 10, 2011 – December 28, 2011)
  - ***Public Meeting (November 30, 2011)***
- Publish Final PEIR with Response to Comments (10 days prior to consideration of the PEIR by the Board)
- Consider Certification of the PEIR (Public Hearing)
- Program Approval (Public Hearing)

# Stakeholder Input

# Contact Information

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