Sustainable Groundwater Management in LA County

L.A.’s Water Resource Future
Workshop 2: Understanding Local Groundwater Storage Potential
June 15, 2016 - UCLA Luskin School of Public Affairs
Gregory R. Reed, PE
Los Angeles Dept of Water and Power
Topics

- What is SGMA?
- How does SGMA apply in LA County?
- Opportunities for Resource Development within SGMA
Sustainable Groundwater Management Act (SGMA)

- California’s new Groundwater Law effective January 1, 2015.
- State Efforts
- Undesirable Results
SGMA Implementation

- Groundwater Sustainability Agency (GSA)
- Groundwater Sustainability Plans (GSP)
- Monitor & Report Conditions
- Evaluate Progress & Provide Updates

- Alternative Compliance Plan
- Adjudicated Basins Exempt
SGMA in LA County
SGMA in LA County

Hollywood Basin
Santa Monica Basin
La Brea Subarea

Central & West Coast Basins (Adjudicated)

STAKEHOLDERS
Beverly Hills
Culver City
Golden State Water Co
Los Angeles City
Los Angeles County
Santa Monica
West Hollywood
Water Repl. District
SGMA in LA County

HYDROGEOLOGY
- Alluvial & Confined Storage
- Groundwater Pumping
- Replenishment
- Underflow
- Water Quality
- Other Constraints

- Hollywood Basin: 1,000 AFY
- Santa Monica Basin: n/a
- La Brea Subarea: 9,000 AFY
- Central & West Coast Basins: 210,000 AFY
SGMA in LA County
Santa Monica Basin
Resource Development

Opportunities

• Storm Water Augmentation
• Recycled Water Replenishment
• Sea Water Intrusion Barrier
• Groundwater Resource Development

Challenges

• Groundwater Contamination
• Aquitards and Basin Yields
• Seawater Intrusion
• Basin Underflow
Stormwater Management Programs

- Enhanced Watershed Management (EWM)
- Integrated Regional Watershed Management (IRWM)
- Prop O Clean Water Bond Program
- Low Impact Development (LID)
- Stormwater Capture Master Plan
Recent Projects

- Broadway Neighborhood Stormwater Greenway Project
- Penmar Water Quality Improvement
- Riviera Country Club Stormwater BMP
Broadway Neighborhood Stormwater Greenway Project
Penmar Water Quality Improvement Project
Penmar Water Quality Improvement Project
Riviera Country Club
Stormwater BMP Concept
Thank you