



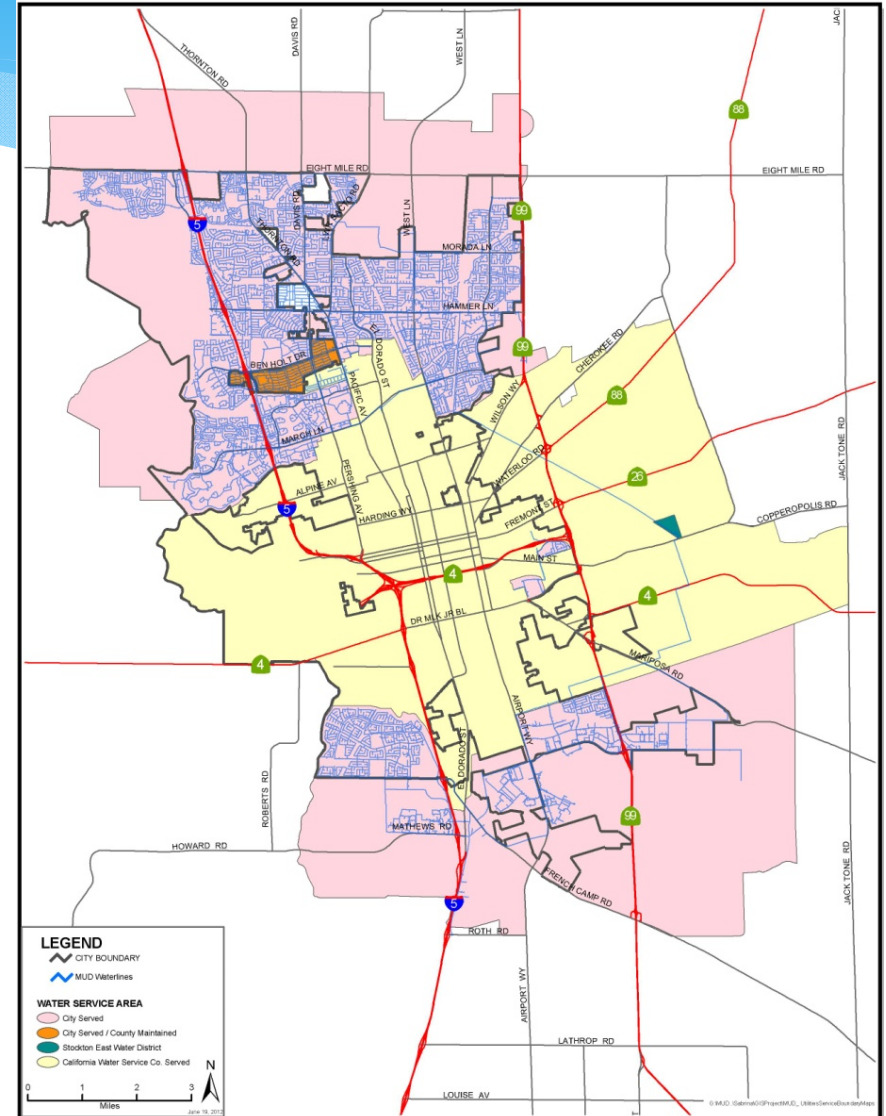
# City of Stockton Water Utility

Presentation to the WaterReuse CVSF Chapter  
Water Resources in San Joaquin County

January 26, 2017

# Stockton Water Service Areas

- \* Stockton Metropolitan Area served by
  - \* City of Stockton
    - \* North
    - \* South
    - \* Walnut Plant
  - \* California Water Service Company
    - \* Central
  - \* San Joaquin County
    - \* Lincoln Village
    - \* Colonial Heights



# Stockton's Water Supply (Historically)

- ∞ Historically, Stockton water supplies have come from two sources:
  - Groundwater
  - Surface Water
    - Purchased from Stockton East Water District
- ∞ Stockton East Water District (SEWD)
  - Approximately 50,000 acre-feet per year
    - 38% to City of Stockton
    - 57% to Cal Water
    - 5% to County (Lincoln Village and Colonial Heights)

# New Water Supply

- \* Delta Water Right (2006)
  - \* Up to 33,600 acre-feet/year
  - \* Based on wastewater discharge
  - \* Environmental permits dictate pumping restrictions
- \* Woodbridge Irrigation District
  - \* 6,500 acre-feet/year
  - \* 40-Year Agreement
  - \* Mokelumne River source
  - \* Option for additional supply



# In-Lieu Conjunctive Use

In-Lieu Conjunctive Use describes a coordinated balance of surface water and groundwater supplied to meet a given demand.

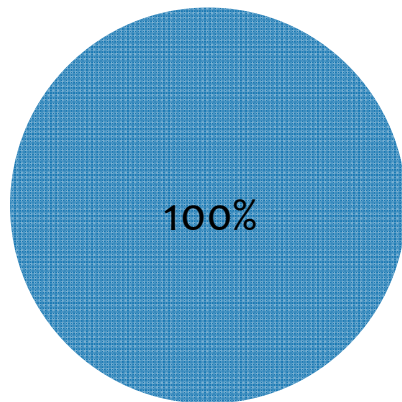
When surface water is abundant, maximize it to its fullest extent.

When surface water is unavailable, groundwater that has been able to be recovered naturally while demand was being met with surface supply is then available to meet demand.

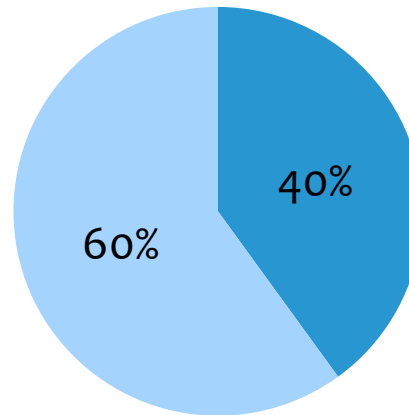


# Stockton Metropolitan Area Groundwater and Surface Water Use

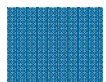
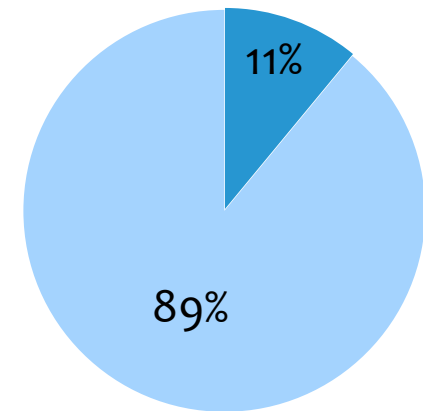
**<1977**



**1977-2012**



**2012-Now**



Groundwater

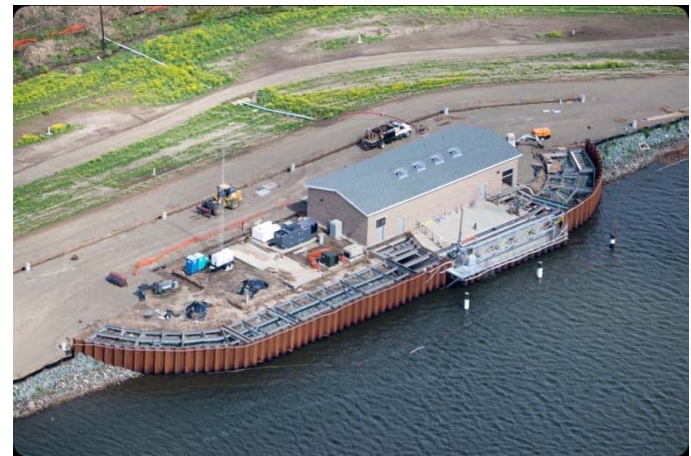


Surface Water

# Delta Water Supply Project

- \* Project Elements

- \* 30 MGD Water Treatment Plant
  - \* Dedicated May 30, 2012
- \* Intake and Pump Station on San Joaquin River
- \* Mokelumne River water supply in Spring during endangered species protection period



# WC Section 1485

- \* The City's ability to divert from the San Joaquin was granted through the water rights permitting process
- \* Stockton's water right is founded in Water Code Section 1485 that states that if treated wastewater is discharged to the San Joaquin River, then a like amount can be diverted downstream from that discharge point
- \* Stockton's One-for-One Recycling Project
  - \* Unique example of indirect potable re-use



# Stockton's General Plan

- \* Stockton has set as policy to limit groundwater use to 2/3 of the sustainable yield of the basin (2035 General Plan Policy PFS 2.11)
  - \* 0.60 acre-feet/acre/year
- \* This has become our management tool to determine when we need to develop additional surface water supply

# Drought Effects

- \* Stockton has seen a 28% reduction in per capita use in the last 3 years
- \* Overall demand is at 2001 level
- \* Drought (or adjusted consumer habits) will extend the current available surface water treatment capacity
- \* Working with our partners to find new in-lieu water supply opportunities

# Groundwater Legislation

- \* Stockton has been a regional leader in groundwater management for nearly four decades
- \* Large investments locally in conjunctive use projects
- \* Groundwater levels under the City have recovered in excess of 30 feet in some areas
- \* Planning policies will prevent an overuse of groundwater supply in the future
- \* Our efforts to protect groundwater could be seen as a model for the intent of the new groundwater legislation

# Questions?