

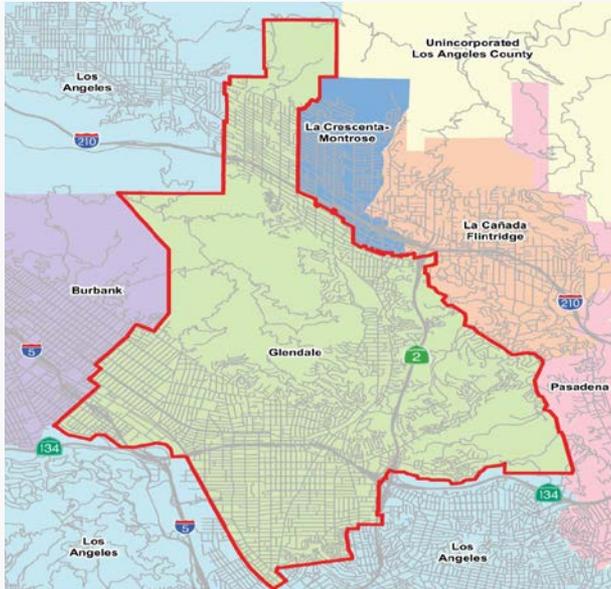


Glendale Recycled Water Update

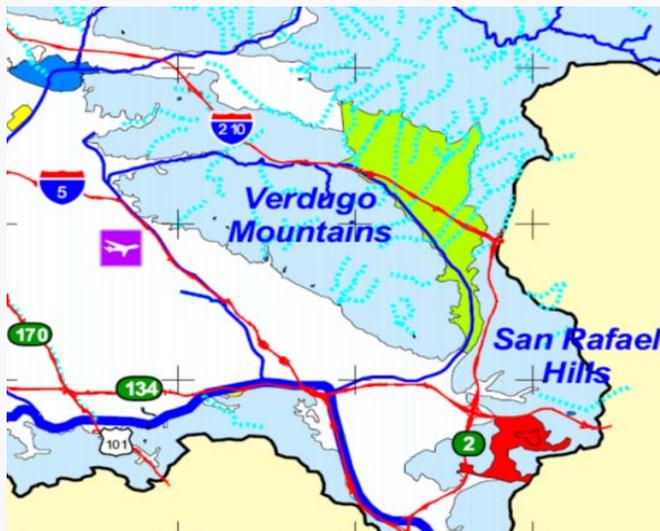
State Water Resources Control Board
November 8, 2017



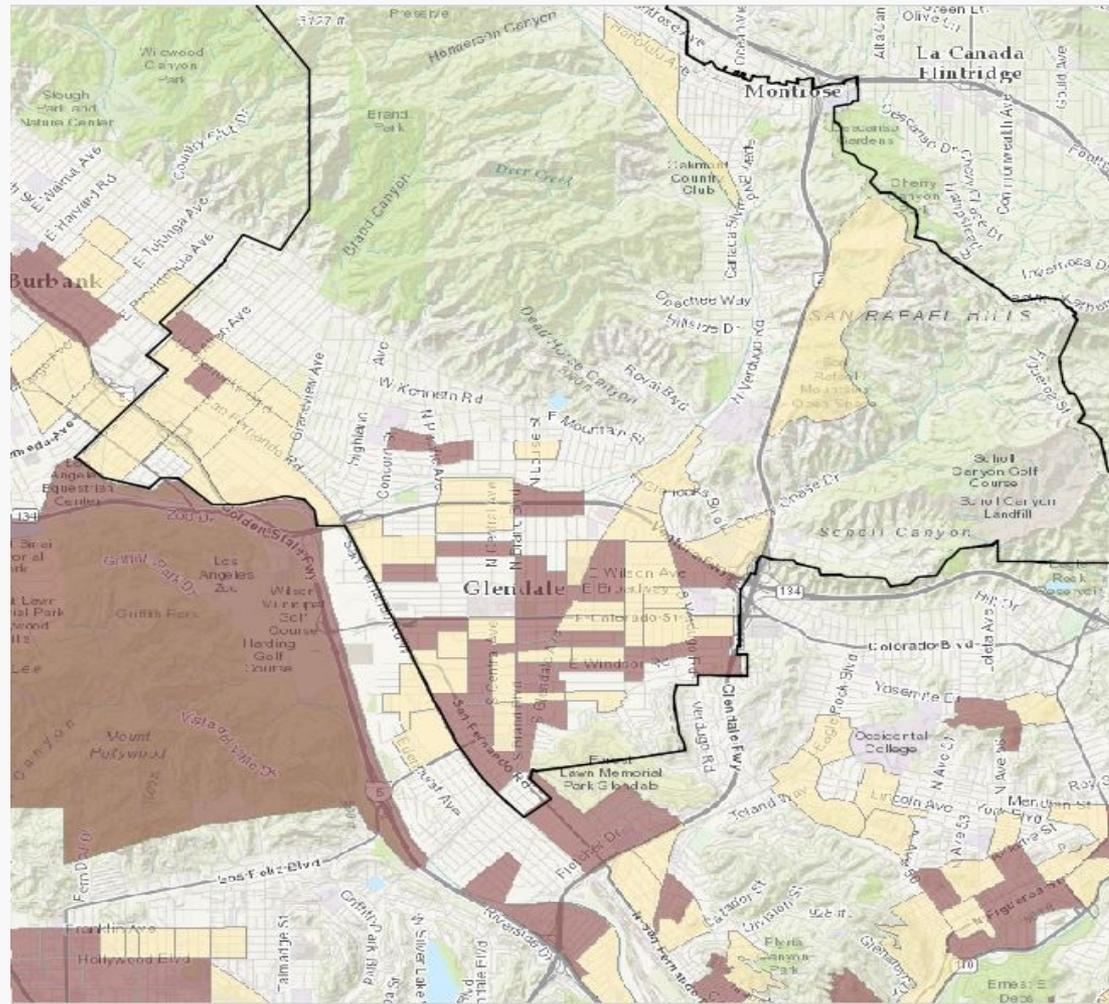
City of Glendale & Water Sources



- Incorporated 1906
- Third largest City in LA County
- Approx. 200,000 Residents
- Approx. 34,000 water services
- 24,000 AFY demand
- One of 13 Founding MWD Member Agencies in 1928
- Sources:
 - Imported – 58%
 - Imported Return Flows (ULARA) – 30%
 - Verdugo Basin – 5%
 - Recycled – 7%



DAC and SDAC Served



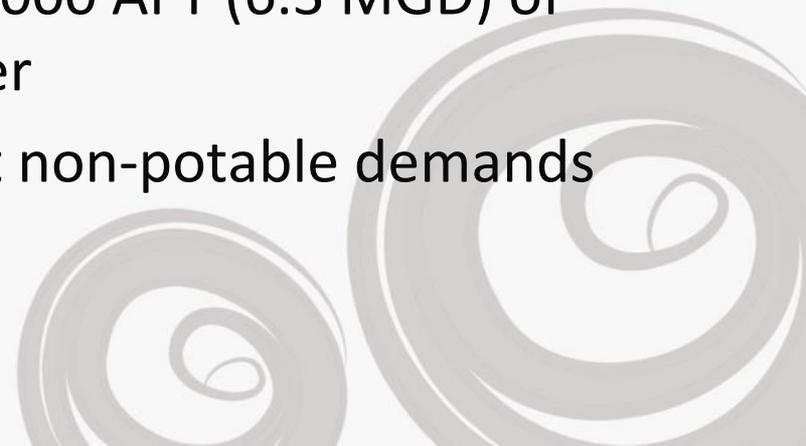
- Severely Disadvantaged Community
- Disadvantaged Community

Imported Water

- 95% of Glendale's water is imported
- San Fernando Basin
 - Los Angeles owns all rights to “native” water
 - Glendale's return-flow credit: limited to 20% of delivered water to basin including RW
- Challenges of Imported Water
 - Expense
 - Reliability
 - Drought
 - Glendale reduced potable water deliveries by 20% during the drought
- Glendale has rights to wastewater flows generated by water it imports
 - Joint Powers Agreement with Los Angeles to split LAGWRP discharge

Wastewater Operations

- 1976: Glendale is a co-owner of the new LA – Glendale Water Reclamation Plant (LAGWRP) sharing in 50% of costs and tertiary treated water
- Treatment capacity: 20 MGD
- Current average treatment: 16 MGD (18,000 AFY)
 - Glendale's half: 9,000 AFY
- Glendale's current RW demand: 1,700 to 2,000 AFY
- Currently, Glendale is discharging 7,000 AFY (6.3 MGD) of tertiary treated water to the LA River
- Water that could be reused to meet non-potable demands



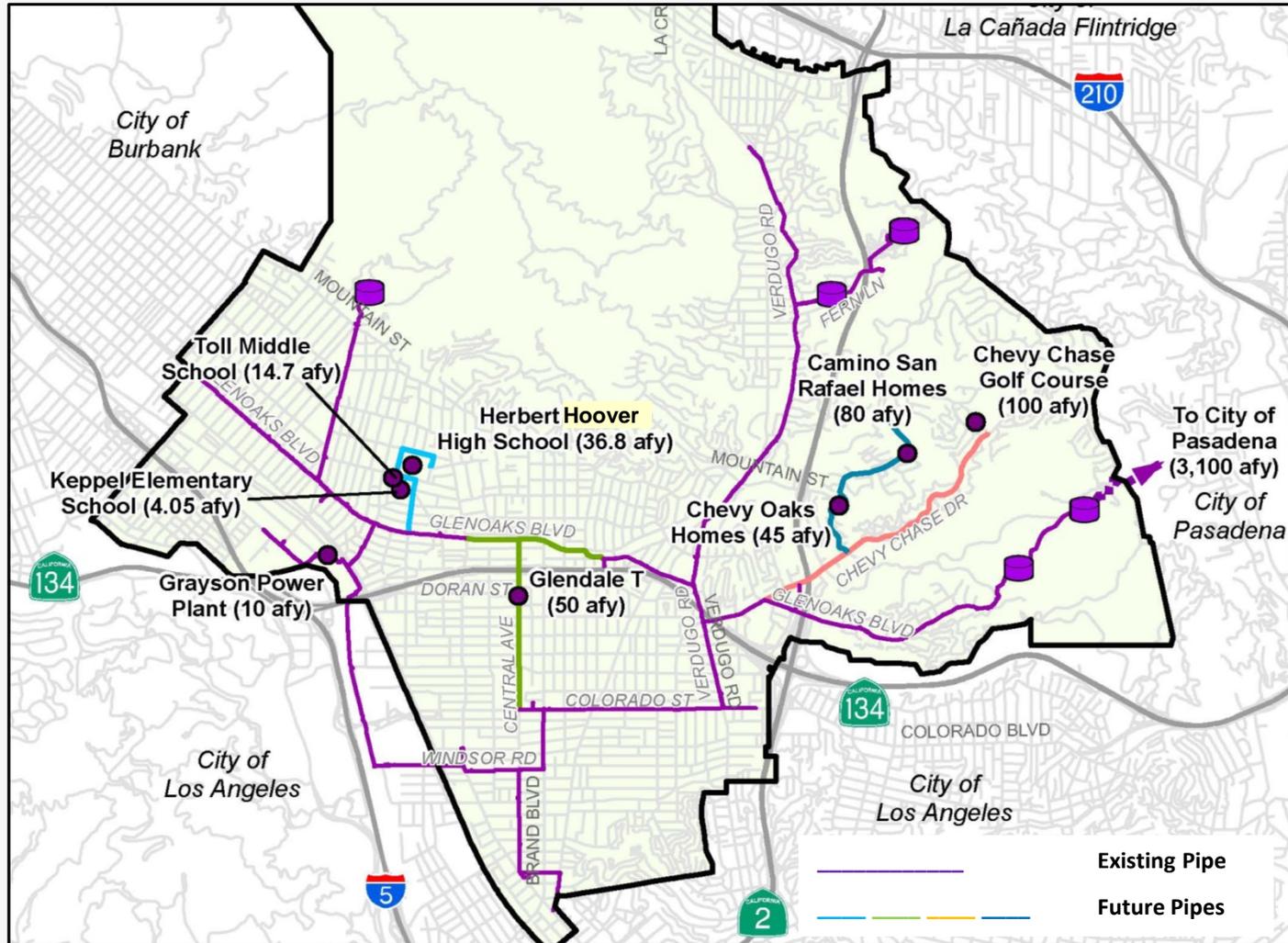
Recycled System

- 1978: First recycled water use was for cooling towers at GWP's Grayson Power Plant
- 1992-2014: Glendale invested over \$20.3 million in expansions
- Existing use: 1,700 to 2,000 AFY
- Proposed expansion: 3,500 AFY (400 AFY Glendale; 3,100 AFY Pasadena)



- Approximately 21 miles of recycled water mains
- 6 RW pump stations
- 5 RW storage tanks
- 78 recycled water meters
- Uses include irrigation, cooling, dual-plumbing, dust control

Current and Future System Map



Recycled Water Planning

- 1983: EIR for “Wastewater Reclamation Facilities Plan” included Glendale, Pasadena, and portions of LA
- 1993: Agreement between Pasadena and Glendale for Recycled Water
 - Glendale’s system built to accommodate Pasadena’s demands – including pumping facility at LAGWRP
- Glendale Municipal Code: “Extend and enhance local water supplies by using recycled water for special non-potable purposes to free up potable supplies for higher uses.”

Annual Average Amount of Wastewater Discharged at LAGWRP (AFY)

Existing Discharge	10,500
Proposed reduction	3,500
Proposed Discharge	7,000

Benefits of Recycled Water

- City and regional benefit of reducing imported water from Bay Delta and MWD
- Increased water supply reliability
- Maximum beneficial use
 - Multiple uses better than one
 - Highly treated water discharged to ocean



Q & A



**TO SUPPORT
CONSERVATION
WE USE RECYCLED
WATER FOR
IRRIGATION**



DO NOT DRINK

