



Part of the Solution

WATER CONSERVATION

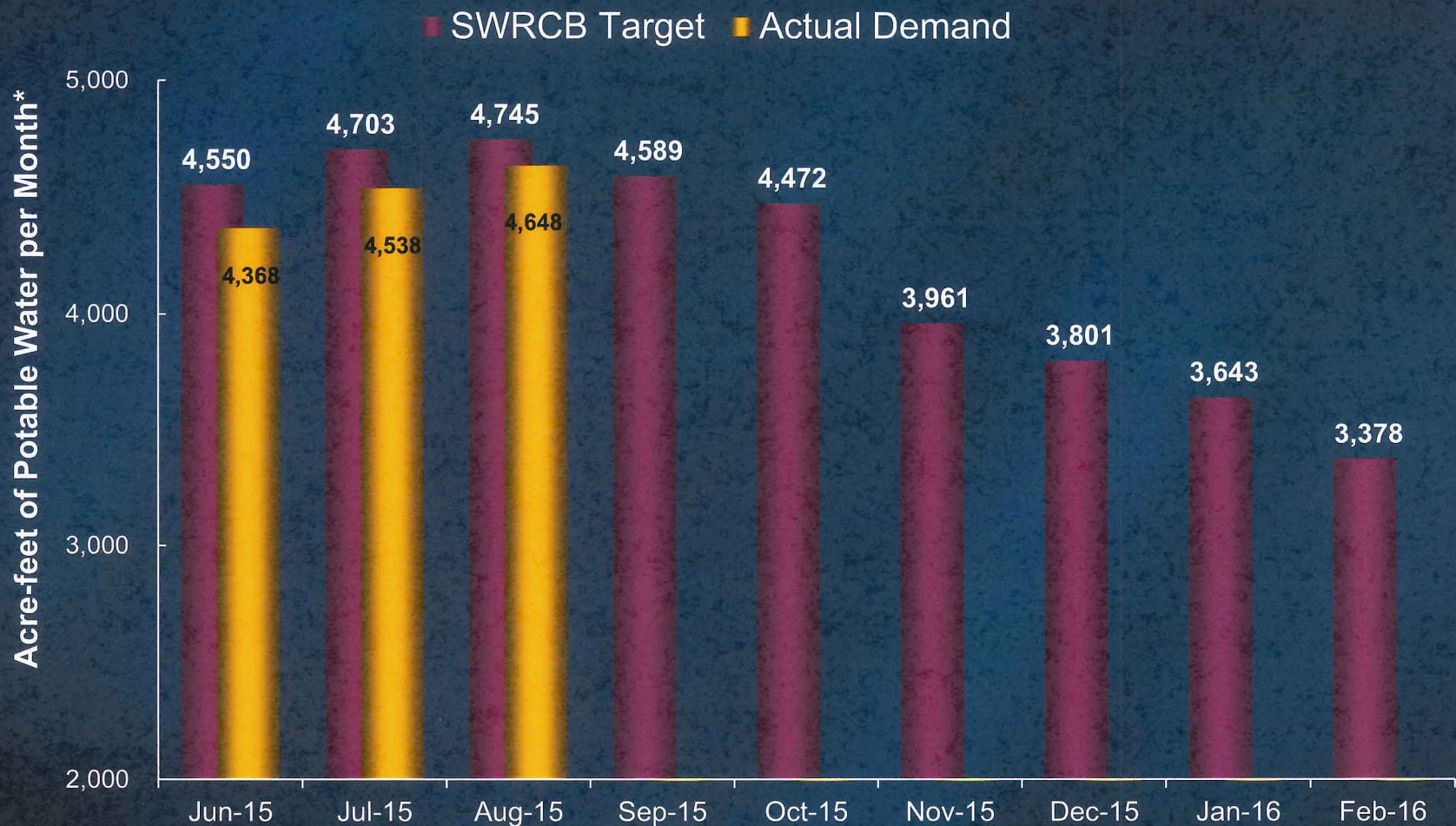
PRESENTATION TO CITY COUNCIL

SEPTEMBER 1, 2015

Long Beach **WATER**



State Water Resources Control Board's Monthly Water-use Targets

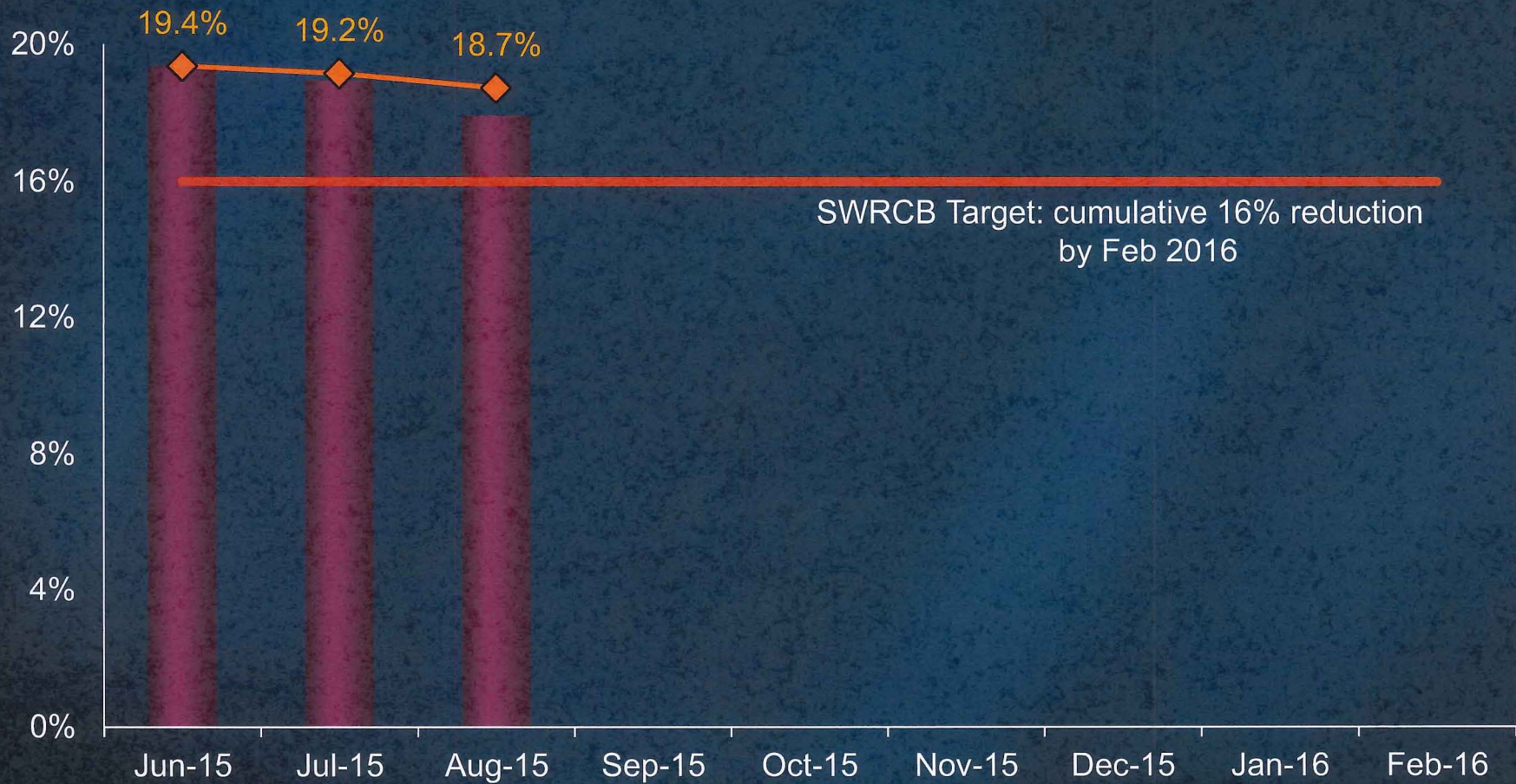


* One acre-foot = 325,851 gallons of water.

LBWD

SWRCB's Reduction Targets

- Actual Reduction for the Month
- Actual Cumulative Reduction, as of June 2015

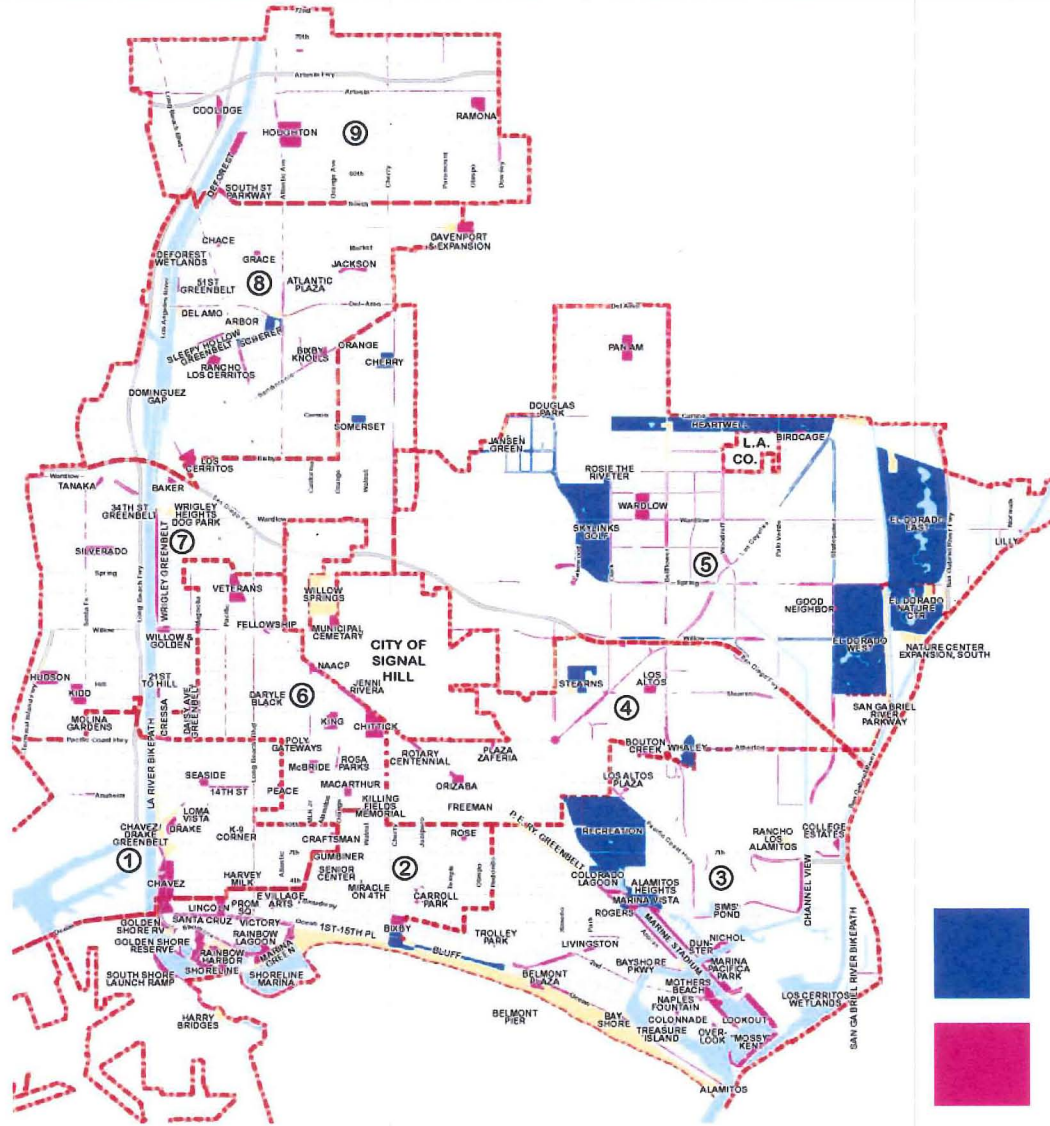


SWRCB Target: cumulative 16% reduction by Feb 2016



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Irrigated Parks and Open Spaces



- Over 3,000 acres of parkland and open space
- Irrigate 1,275 acres of parks and street medians
- 54% or 687 acres irrigated with reclaimed water
- 46% or 588 acres irrigated with potable water



Reclaimed Parks, Golf Courses and Street Medians



Potable Parks and Street Medians





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Department Water Usage

- Irrigation resources intended to supplement rainfall
- Over the last three years, on average, rainfall fell short five inches each year
- Average of almost 750,000,000 gallons used per year of irrigation water
- Since April 2015, reduced irrigation systemwide by over 40 million gallons, or 16.5%



Conservation Measures

- Compliance with State and Local goals
 - ✓ Irrigate twice weekly – modified schedule
 - ✓ Exceptions include:
 - athletic field renovations and newly planted areas
 - manually irrigated areas,
 - repairing and testing infrastructure
 - ✓ Eliminated potable irrigation of grass street medians

- Ongoing maintenance and management
 - ✓ Repair irrigation main and lateral line breaks
 - ✓ Install new and adjust existing water saving heads & nozzles
 - ✓ Install pressure regulators to improve irrigation effectiveness
 - ✓ Re-program or reset irrigation controllers

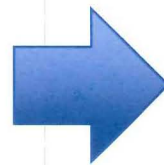
Strategic Investments

- Investments informed by Landscape Irrigation Audit and Tree Inventory
- Upgrading antiquated irrigation infrastructure
- Increasing use of automated (smart) meters
- Turf conversion projects citywide, such as synthetic turf
- Updating communications infrastructure
- Study of park lakes to address water leakage and potential of filling with reclaimed water
- Municipal urban stormwater treatment facility project ongoing



Strategic Investments – Cont'd

- Conversion of grass medians to drought tolerant landscaping
 - ✓ Invitation to Bid released
 - ✓ Phased project plan
 - ✓ Expensive, long-term project





Conservation Opportunities

- Continue turf conversion and irrigation modernization
- (Re)-Design parks, consistent with CA water efficiency standards
- Strategic tree trimming to improve health of urban forest
- Industry best practices
 - ✓ Improved tree irrigation
 - ✓ Modified water schedules
- Report irrigation issues to:
 - ✓ Mobile App: GO Long Beach
 - ✓ Email: lbparkswaterwise@longbeach.gov



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