

County of Los Angeles Department of Public Works

Los Angeles County Waterworks District No. 29 Water System Infrastructure

September 2016



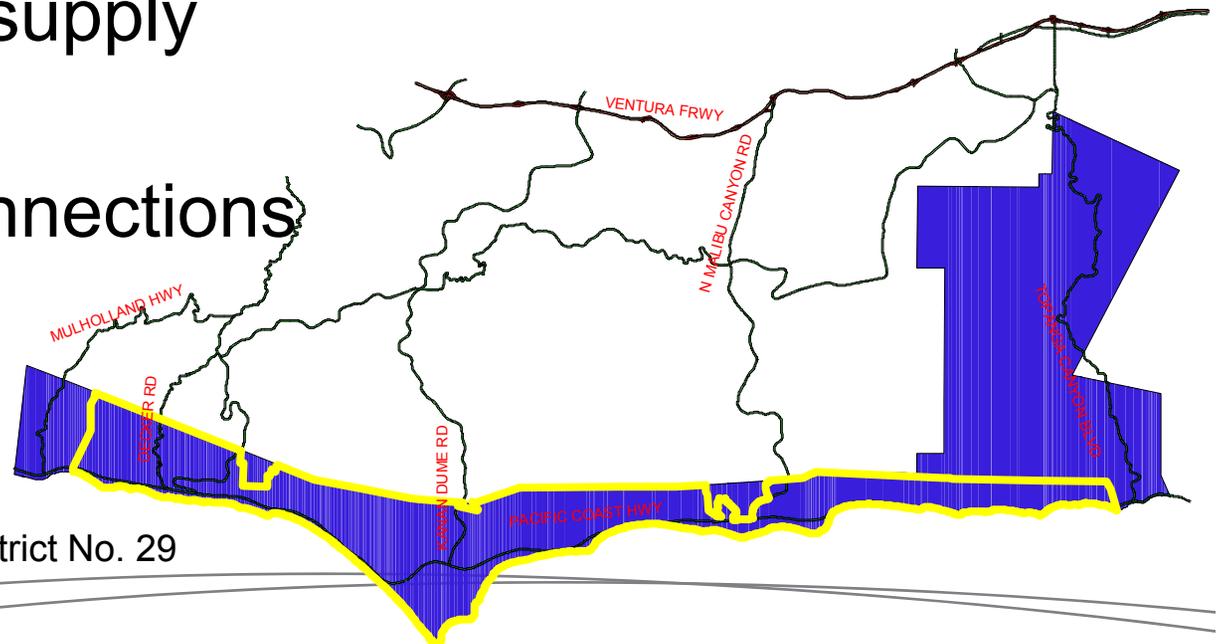
Agenda

1. Welcome and Staff Introductions
2. District 29 Overview
3. Infrastructure Challenges and Planning Efforts
4. Critical Projects
5. Next Steps
6. Questions and Comments

Description of District 29

- Over 7,000 service connections serving approximately 20,000 people
- 50 water storage tanks
- 200 miles of pipelines
- 1 primary water supply source
- 4 emergency connections
 - LA City DWP
 - Las Virgenes

■ LA County Waterworks District No. 29
~ City of Malibu



Formation of the District

- District No. 29 was formed in 1959
- District water system formed from 15 local private mutual water companies
- Infrastructure acquired was aged and substandard

Topanga Infrastructure

- 17 water tanks, 7.2 million gallons storage
- 60 miles of pipelines
- 10 pump stations

Malibu Infrastructure

- 33 water tanks, 13.5 million gallons storage
- 140 miles of pipelines
- 30 pump stations

Source of Water Supply

- The District's water supplier is the West Basin Municipal Water District (WBMWD)
 - WBMWD receives its water from the Metropolitan Water District of Southern California (MWD)
 - MWD receives the water it supplies to District 29 from:
 - The Sacramento River/San Joaquin Delta via the State Water Project and treats it at its Jensen Filtration Plant; and
 - The Colorado River via the Colorado River Aqueduct and treats it at its Weymouth Treatment Plant
 - Connection at Venice Blvd. and Sawtelle Blvd
 - 35-mile transmission main constructed in early 1960s

Water Conservation

- Continued conservation is important in maintaining a sustainable water supply
- District is committed to working with customers to conserve water

Infrastructure Challenges

- In some areas pipelines and tanks are currently undersized
 - Inadequate fire flow capability
 - Operational challenges
- Frequent leaks
 - 450 leaks over the last 10 years
 - Less reliable service
 - Costly repairs

Water System Master Plan Overview

- Investigated existing and anticipated system needs beginning in 2012
- Needs assessment identified:
 - 5 phases of improvements at a total cost of over \$363 M
 - Phases 1 and 2 address existing water system deficiencies

District Funding

- Limited Available Funding
 - Focus on highest priority projects (Phase 1)
 - Existing revenue
 - \$6 M annually for Capital Improvement Program
 - State Revolving Fund Loan Program
- Projections of Future Additional System Needs
 - Will have to be reevaluated over time
- Next Steps
 - Address highest priority system needs

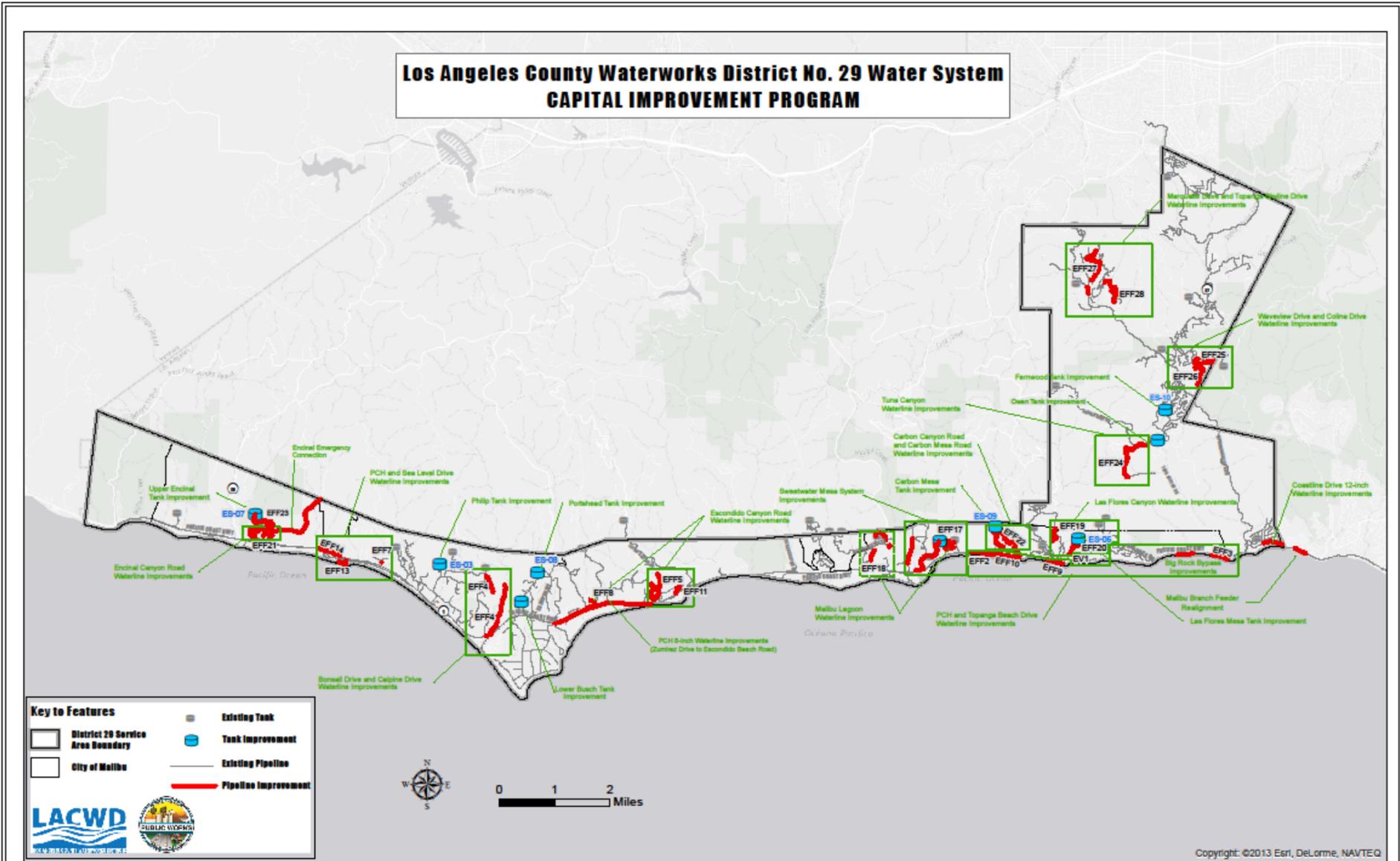
Prioritization of Projects



Highest priority projects

- Address existing system deficiencies:
 - All pipelines and 50% of tanks to meet fire flow needs
 - An additional emergency connection
- Total Costs \approx \$106 Million

Recommended Phase 1 Improvements



Work In Progress

- Field Investigations
- Biological Surveys and Cultural Surveys
- Survey for Design
- Geotechnical Investigation
- Materials and Product Selection
- Evaluation of Design Criteria
- Preparation Design Plans

Next Steps

- California Environmental Quality Act Program Environmental Impact Report (PEIR)
 - For highest priority projects only
 - Scoping meetings tentatively scheduled for Fall 2016
 - Draft PEIR for public review in early 2017

Questions Comments



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