

# Pomona, MVWD and IEUA Recycled Water Intertie

September 2017



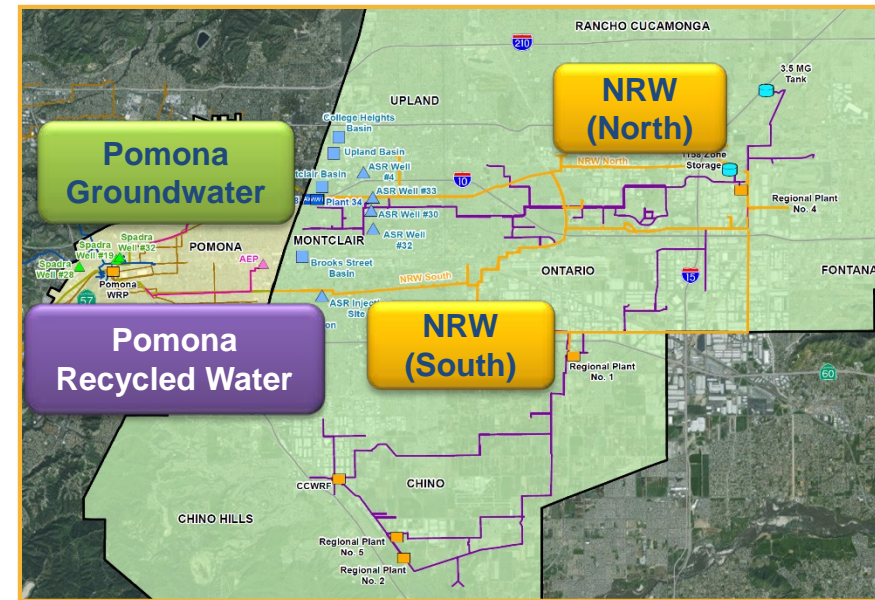
# Project Background

- Collaboration between the City of Pomona, MVWD and IEUA
- Evaluating long-term water supply options
- Project will maximize the beneficial use of recycled water
- Addresses land subsidence in GMZ-1
- Completed Phase 1 Feasibility Study for a potential RW intertie
- Phase 2 Study with partial funding through Prop 13 (\$75k)

# Feasibility Study

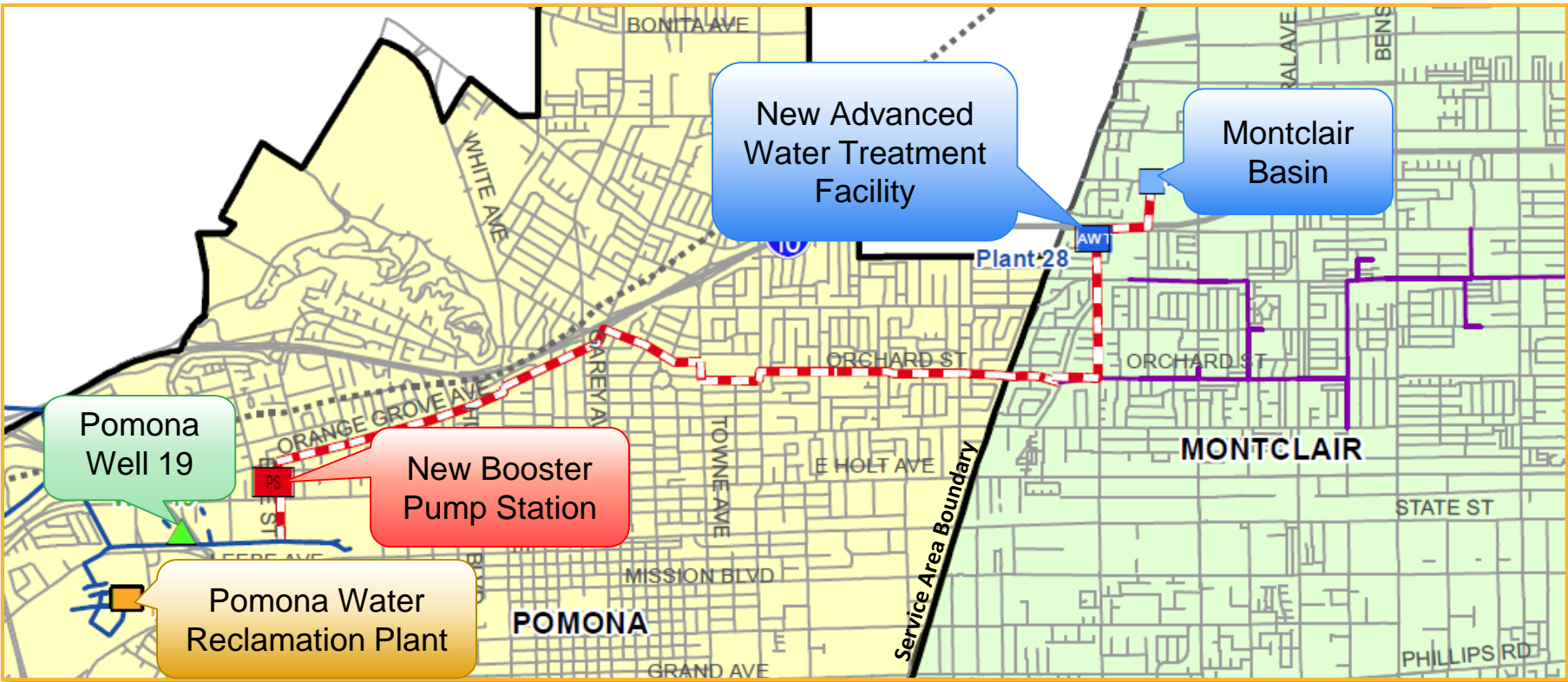
## Phase 1

- Supply sources evaluated:
  - Recycled water from Pomona's Water Reclamation Plant
  - Groundwater (GW) from Pomona's Spadra Well 19
  - Non-Reclaimable Wastewater (NRW)
- Land subsidence improvements
- Water quality considerations
- Regulatory impacts
- Facilities required



Phase 1: Supply Sources

# Top-Ranked Alternative



# Top-Ranked Alternative

## Supply Sources

- 3.2 mgd (Pomona)
- 0.5 mgd (Spadra Well 19)
- 3.7 mgd (Total)

## Advanced Treatment

- MF/RO/UV-AOP
- 3.7 mgd (Supply Total) – 0.6 mgd (Brine) = 3.1 mgd (Treated Flow)
- 3,500 AFY (Beneficial Use Potential)

## Beneficial Use Type

- GWR at Montclair Basin
- Direct Use

## Existing Infrastructure

- IEUA's RW System (connection at Orchard St)
- MVWD Plant 28 Site (for AWT Plant)

## Proposed Infrastructure

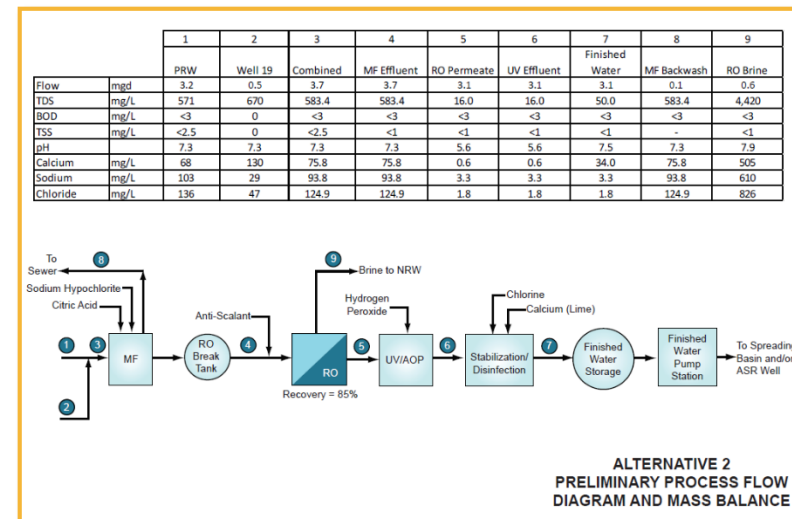
- Approximately 6 miles of pipeline
- Pump stations (w/ land acquisition)
- AWT facility (at MVWD Plant 28 Site)
- Future injection wells



# Feasibility Study

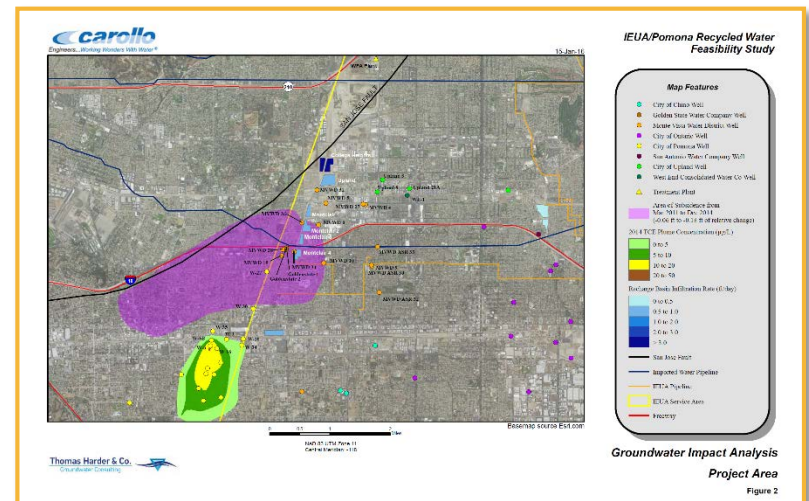
## Phase 2

- In-depth technical evaluation of top-ranked alternatives
  - Consider use of existing pipelines
  - Siting for advanced water treatment facility
  - Siting for future injection wells
  - Potential layout schematic
  - Cost estimates
- Groundwater modeling
  - Land subsidence improvements
  - Time to nearest well
  - Water quality impacts



# Project Status

- Phase 1 Feasibility Study completed
- Phase 2 Feasibility Study
  - Kickoff held in September
  - Groundwater modeling: June 2018
  - Technical evaluation: June 2018



Preliminary Groundwater Impact Analysis

