

City of Ukiah Recycled Water Project

May 3, 2019

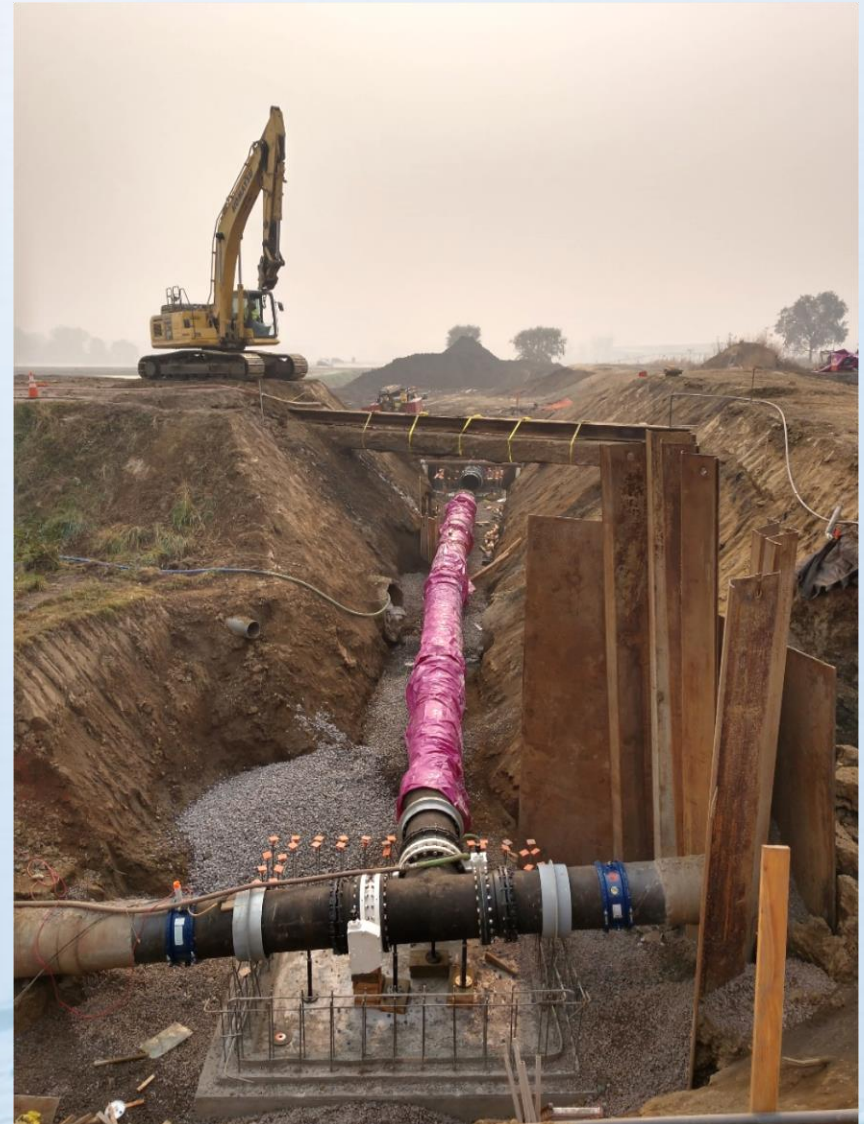
Ukiah

- Mendocino County
- Population of 16,075 (35,000)
- Headwaters of Russian River
 - On the 101 north of Santa Rosa
- Economic hub
 - Agriculture
 - Tourism
 - Light manufacturing



Project Drivers

- Regulatory constraints
 - Discharge to Russian River leading to WWTP upgrade
 - Extraction of River water for agricultural use - irrigation and frost protection
- Diversified water supply
 - Drought resilient supply
 - Conservation



Timeline

- 2008 Severe Frost Season (30 events vs 6)
- 2011 Russian River Frost Protection Regulation
- 2012 Feasibility Study-four phase approach
- 2014 Drought begins
- 2015 Phase 1 Preliminary Design Report (30% design)
- 2015 Drought funding becomes available (Prop 1)
- 2016 Funding received for Phases 1 thru 3
- 2016 Water balance, zero discharge, nitrogen, CEQA
- 2017 Final design
- 2017 Litigation Funding delay (UVSD)
- 2017 Bidding and start of construction
- 2019 Project completion

Project description

- Phase 1-3
 - 66 MG of storage
 - 8 miles of pipe
 - 3400 GPM pumping station
 - 4 MGD CCB
 - 650 acres of agriculture, School, and Parks
- Phase 4
 - 6 miles of pipe
 - 1 MG tank
 - Ponds
 - Booster station
 - Schools, Parks, Cemetery, and Golf Course

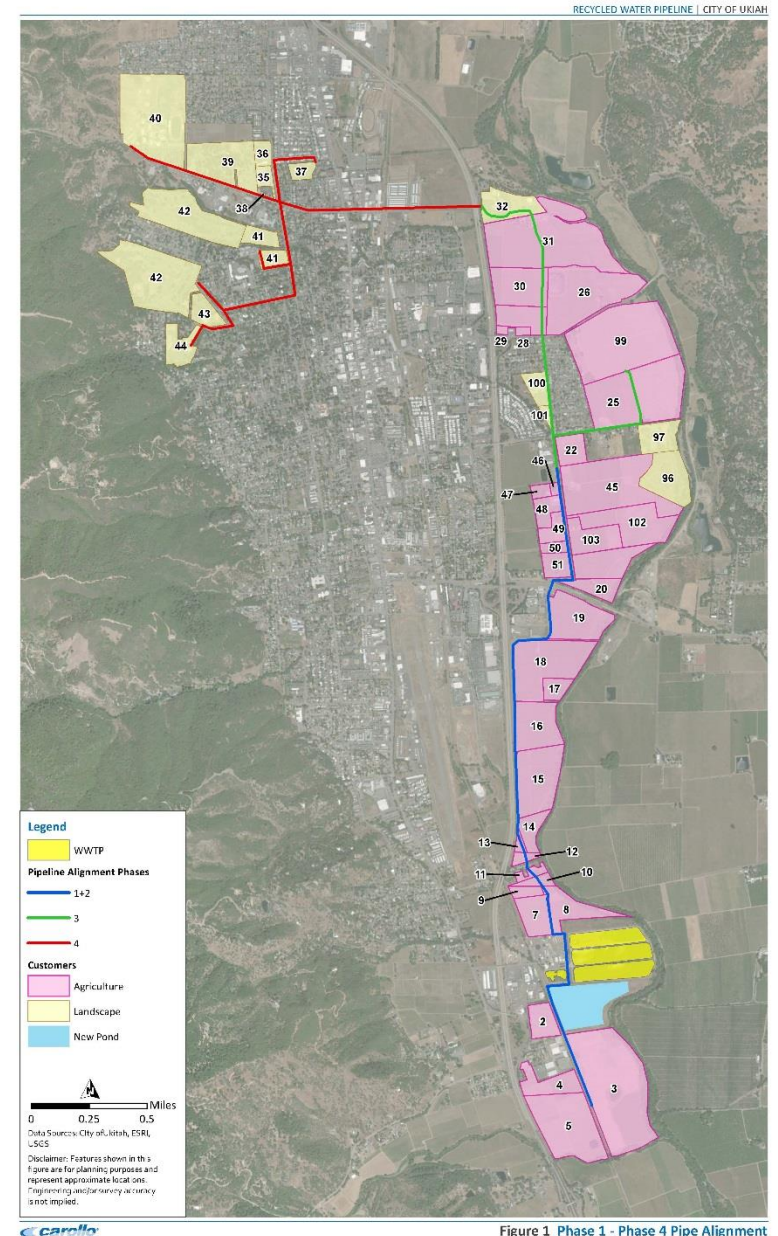


Figure 1 Phase 1 - Phase 4 Pipe Alignment

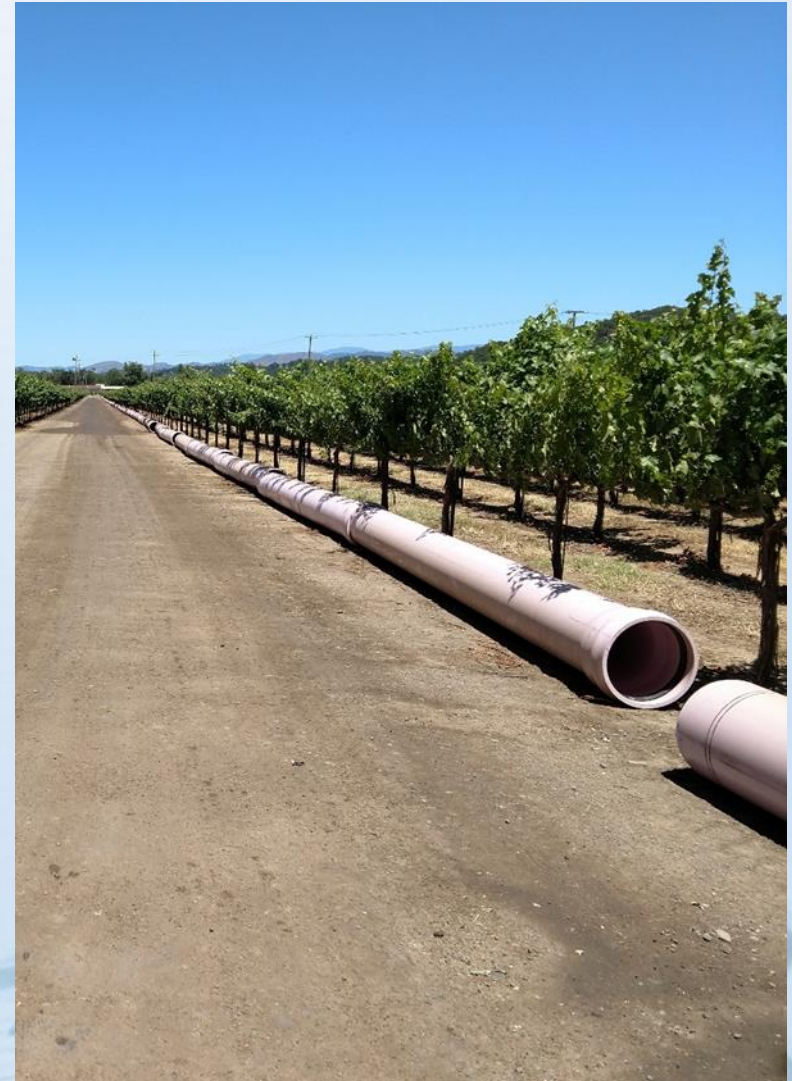
Project Cost

- Phase 1-3
 - \$34M
 - \$9M grant
 - \$25 loan (1% @ 30 yrs)
- Phase 4
 - \$18M



Anticipate benefits

- Reduced river discharge
 - 60% (Phases 1-3)
 - 80% (w/ Phase 4)
- Water Supply Reliability
 - 1000 AFY offset
 - 1400 AFY w/ Phase 4
 - City
 - Adjacent agriculture
- Drought resilience
- Cost Avoidance
- Regulatory stability
- Fisheries



Video



Current status

- Phases 1-3
 - Pipeline Complete
 - Ponds Complete
 - CCB Complete
 - Permitting Complete
 - Pumping Station May 2019
 - Completion June 2019
- Phase 4
 - Preliminary Design
 - Funding



QUESTIONS?

