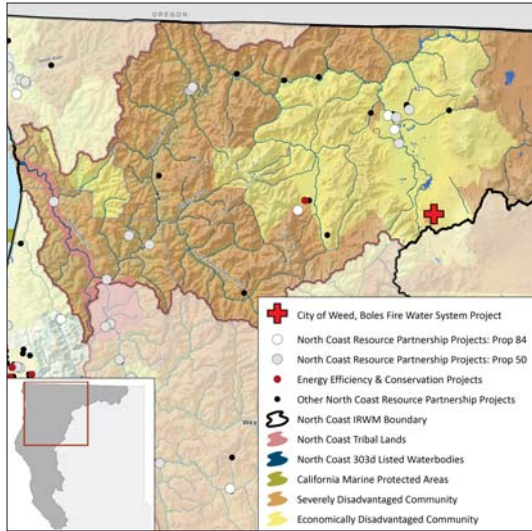


Boles Fire Water System Rehabilitation/ Water System Restoration

CITY OF WEED



COMPLETION DATE

December 31, 2016

STATEMENT OF THE PROBLEM

In September 2014, the Boles Fire ripped through the City of Weed, destroying 128 homes, two churches, a portion of Weed Elementary School and numerous secondary buildings. One of the areas hit the hardest was the Angel Valley area, where 60 homes were lost. Many of the water mains in this area are undersized and run through alleys. It is desirable to abandon the undersized, old steel water mains and install new PVC water mains in the streets where they are more accessible, and where water meters can be more easily accessed.

PROJECT GOALS

- Water supply reliability
- Infrastructure repair and replacement
- Improved economic vitality for a Disadvantaged Community

THE SOLUTION

The proposed project consists of installing approximately 5,000 linear feet of 6- and 8-inch water mains, including valves and appurtenances and nine fire hydrants.

PROJECT IMPLEMENTATION AND ACCOMPLISHMENTS

The project has been successfully completed with final reports forthcoming.

PROJECT BUDGET

IRWM funds: \$ 1,299,000
TOTAL \$ 1,299,000

BENEFITS

Economic benefits

- Approximately \$16,940 per year in increased municipal water supply
- An estimated \$15 million every 15–20 years in improved fire protection based on historic fire frequency. This frequency is likely an underestimate given changing climate trends, which are expected to lead to increased fire frequency
- Approximately \$1 million in avoided water supply costs
- Approximately \$15,000 in avoided costs associated with emergency leak repairs
- Reduced pumping and treatment costs of about \$8,300 per year

Water Supply

- Approximately 280 acre-feet per year of water in increased water supply due to infrastructure repair

Cultural benefits

- By improving water supply reliability and fire protection, this project adds to community resiliency to climate change and improves capacity to respond to catastrophic emergencies

Jobs and Local Economic Benefits

- Over \$1 million spent locally using local supplies and labor when possible
- About six temporary jobs were created

NEXT STEPS

The City of Weed will record the location of each new fire hydrant and perform fire hydrant flow tests after the new improvements have been installed. The City of Weed will continue to repair or replace aging infrastructure and implement water conservation measures to bolster community resiliency and rebuild community cohesiveness.

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