

Location: Amador County, CA

Owner: Amador Water Agency



The Plymouth Pipeline Project includes approximately 7.3 miles of 12-inch diameter water transmission main. The project will deliver treated water from the Amador Water Agency's Water Treatment Plant in Sutter Creek to the City of Plymouth's Water Storage Tank in Plymouth.

KASL Consulting Engineers performed topographic surveys, designed the pipeline improvements, coordinated the necessary permits for project approval, adjusted the alignment to mitigate environmental and stakeholder concerns, prepared plans and technical specifications for bidding purposes and developed cost estimates for the project.

The pipeline design included extensive network modeling, surge analysis and extended period simulations. The system was designed for operating pressures up to 300 psi with elevation changes along the pipeline in excess of 700 feet.

The pipeline alignment traverses 20 privately owned parcels and various public right of ways within Amador County and the cities of Sutter Creek, Amador City and Plymouth. KASL developed legal plats and descriptions for easements on privately owned parcels and identified the limits of existing easements and right of ways for the remaining pipeline alignment.

The project includes 5 live stream crossings necessitating permits from the U.S. Army Corps of Engineers, California Fish and Wildlife Service, California Department of Fish and Game and California Regional Water Quality Control Board.

Special environmental controls were implemented to preserve habitat of the valley elderberry longhorn beetle and to mitigate soils contaminated with arsenic left by historic mining operations at various locations along the pipeline alignment.

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