

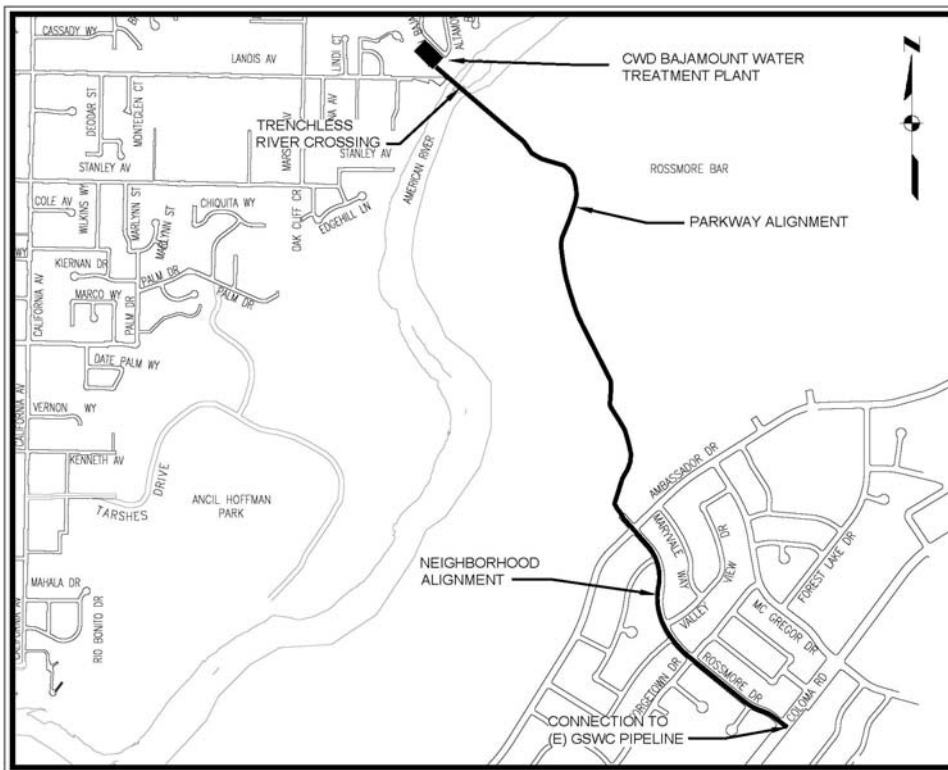
Carmichael Water District – Golden State Water Company American River Pipeline Conveyance Project

Project Abstract

The Carmichael Water District (District) has provided the greater Carmichael community with a public water supply for over 100 years. The District provides a significant portion of the public water supply through the existing water treatment plant located overlooking the American River upstream of Ancil Hoffman Park and drawing water from existing river water infiltration structures located in Rossmore Bar.

Golden State Water Company (GSWC) provides public water to the community of Gold River and parts of the City of Rancho Cordova. GSWC utilizes surface water from the Folsom South Canal and groundwater to meet the customer's needs. GSWC has been increasingly impacted by the Aerojet/Rocketdyne (Aerojet) facilities groundwater contamination plume with increasing loss of groundwater supply to the point where it is critical to implement replacement supplies.

This Project will provide a near term water supply for GSWC using the existing treatment capacity at the District's Bajamont Water Treatment Plant providing 4.5 million gallons per day (MGD). The water supply is coming from the remediated Aerojet groundwater discharged to the American River upstream of the project at Buffalo Creek and then recaptured at the District's infiltration galleries. The Project includes approximately 7,400 feet of 24-inch diameter pipeline, as shown in the Figure below, crossing the American River upstream of Ancil Hoffman Park and across from the Rossmore Bar river access.



LOCATION MAP
SCALE: 1" = 1200' (APPROX)



North bank American River upstream of Ancil Hoffman Park and just downstream of the proposed river crossing.

The primary project elements include the following

- **American River Pipeline Crossing using Horizontal Directional Drilling (HDD):** The river crossing will occur approximately 80 feet below the river bed and will use a pressure drilling method that will not disturb the river bed and channel.
- **Conventional Construction in Rossmoor Drive:** The pipeline will continue from the HDD segment along the shoulder and within the pavement of Rossmoor Drive using conventional cut and cover methods. The project will terminate at a connection within Coloma Road.
- **Habitat Improvements and Restoration:** The project work on the northern bank is within an unnamed drainage that will have the existing channel and culvert elements reconstructed with a naturalized channel and improved riparian access to the upstream habitat.
- **Removal of Abandoned Facilities:** Existing abandoned District water diversion assets dating back to the 1950's, and earlier, will be demolished and the river bank restored to a natural setting. This includes removal of three concrete structures, an existing exposed pipeline crossing the river and concrete debris.
- **Drought Supply Reliability:** The project includes future consideration of a temporary pump back option to provide water to the District wheeled through GSWC in the event of a recurring severe drought and renewed surface water curtailments of District diversions off the American River.

Funding Source

Aerojet/Rocketdyne Corporation is providing funding of the water supply elements with additional funds being provided by the Carmichael Water District to address abandoned District assets and the State of California under the Governor's Water Action Plan (Proposition 84) to support the drought relief elements. The project estimated cost to construct is \$4,500,000 to \$5,000,000.

Schedule

- Final Design: Spring 2015
- California Environmental Quality Act (CEQA) Initial Study (IS): January/February 2015 with 30 day public review period.
- Construction: Late-summer 2015 through mid-summer 2016.

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