



## 2.2 Newell Creek Pipeline Rehabilitation/ Replacement

**Current Status: Design**

### Project Need

The Newell Creek Pipeline was constructed in the 1960's and is experiencing increased frequency of breaks due to age, pipe condition (corrosion), and unstable geologic conditions along its alignment. This project will improve system reliability and reduce costs and impacts due to ongoing failures and subsequent repairs of the pipe.

### Background

The Newell Creek Pipeline conveys raw water to and from the Loch Lomond Reservoir which is the Water Department's only water supply storage facility. This source is critical to meeting customer demands during dry seasons as well as during storm events. The pipeline was constructed through geologically and seismically active mountainous terrain and has the complication of subsequent development surrounding much of the alignment.

Project Description

The Water Department contracted with HDR in 2018 to perform an alternatives analysis of the nearly 9.5 miles of pipeline from the Newell Creek Dam to the Graham Hill Water Treatment Plant. This resulted in splitting the project into three segments and prioritizing their design and construction over the next 16 years. In addition, the Water Department contracted with Dudek in 2019 for the preparation of a project-level environmental review (EIR) for replacement of the entire Newell Creek Pipeline and regulatory permitting for the priority segments described below. The EIR considered designs where available for the priority segments and a conservative disturbance corridor for the remaining segments without designs, thus covering all potential projects impacts for the entire Newell Creek Pipeline replacement.

The design and construction of the three segments are budgeted under separate capital projects: 2.2.1 Newell Creek Pipeline Felton/Graham Hill WTP (Design), 2.2.2 Newell Creek Pipeline Newell Creek Dam/Felton (Project Definition/Feasibility), and 2.2.3 Brackney Landslide Area Pipeline Risk Reduction (Design).

Project Benefits

- Benefits of this project include:
- Definition and prioritization of construction segments and environmental review to support design and construction.

Escalated Estimate

Construction	\$	NA	* Other costs may include planning/preliminary engineering, environmental, permitting, legal, land transaction, city administration, and program management costs.
Other Costs*	\$	1,610,000	
Total Project	\$	1,610,000	

Potential Funding Source

TBD: Bonds, Grants (FEMA), Loans (WIFIA/SRF), or Pay As You Go

Current Schedule Start-Finish Dates

Planning/Env	Design	Construction	Post Construction
SEPT 2019 JUN 2022			

Revised: 04/18/2022



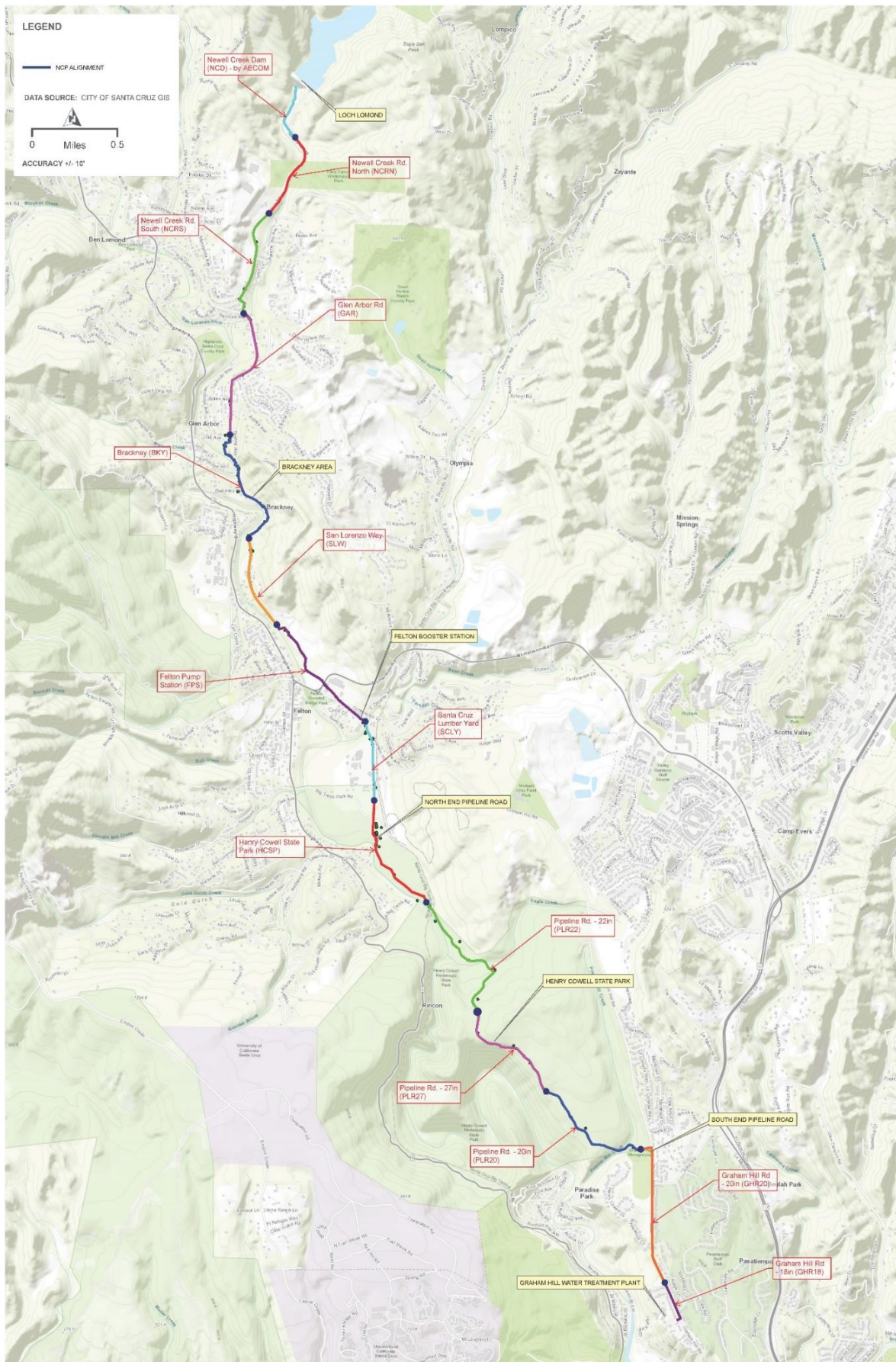


Figure: Existing full alignment of Newell Creek Pipeline