

Forbestown Water Storage Tank and Pipeline Replacement NYWD-04

I. Project Sponsor Contact Information

Lead Agency/Organization	North Yuba Water District (District or NYWD)
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II. General Project Information

Project Title	Forbestown Water Storage Tank and Pipeline Replacement
Project Total Budget	\$ 1,269,100
Project Funding Match	0% - (Disadvantaged Community or DAC)
Project Funding Request	\$ 1,269,100
Can a detailed cost estimate be provided upon request?	Yes – This important project was designed and competitive bids received, but construction has not occurred due to lack of available funding.
Latitude	39 degrees, 31' 13" N
Longitude	121 degrees, 16' 50" W
Could you provide a map of the project location including boundaries upon request?	Yes
County	Butte
City/Community	Forbestown
Watershed/subwatershed	Project is located in the Yuba River Watershed, but project water is diverted from the Feather River.
Groundwater Basin	Hard Rock Aquifer
Project Type	Facility Construction

III. Project Description

The North Yuba Water District in Brownsville, CA presently stores treated water in several tanks including the Forbestown Tank which is a 100,000-gallon bolted steel structure constructed in 1967 located in the community of Forbestown. The community of Forbestown is a small disadvantaged community in Butte County. The tank and pipeline provide approximately 700 households with a reliable water supply and fire protection.

The Forbestown Tank requires replacement due to both its poor condition as well as its inadequate water supply for fire flows. In addition, approximately 4,400 lineal feet of 6-inch water transmission

main connecting this tank to the distribution system needs to be replaced with 8-inch pipeline due to poor condition and to meet fire flow capacity requirements.

Design for this project was completed in 2011. The project includes environmental, permitting and construction of a 400,000 gallon tank and of pipeline installation as well as all associated appurtenances and site requirements.

IV. Project Rationale/Issues Statement

The project addresses two (2) identified issue.

1. Infrastructure: This project will retrofit the deteriorated water storage tank constructed in 1967 to provide a reliable water supply to customers throughout the District service area.

Climate Change: This project addresses climate vulnerabilities by responding to projected climate change impacts on water supply reliability and public safety.

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	<p>Goal 1: This project will replace an existing deteriorated treated water tank and increase the capacity to benefit customers throughout the District. It will provide sufficient fire flows and significantly increase water system reliability and flexibility.</p> <p>Goal 5: This project will increase local storage capacity to provide sufficient fire flows to Forbestown and other communities within the District service area.</p> <p>Goal 6: This project addresses climate vulnerabilities by increasing water supply reliability and in providing increased fire safety.</p> <p>Goal 7: This project will provide a reliable drinking water and fire flow to local disadvantaged communities (DACs).</p>
Objectives Addressed by Project	<p>Objective 1.1: The project will replace an existing aging water supply tank and pipeline.</p> <p>Objective 1.4: The project will improve disaster preparedness in the Region. The Yuba County Multi-Jurisdictional, Multi Hazard Mitigation Plan (Annex T) identified replacement of tanks to meet fire requirements as a Mitigating Action.</p> <p>Objective 5.2: The project will help meet fire flow requirements for the District service area.</p> <p>Objective 6.3: The project increases water system flexibility in adapting to climate variability</p> <p>Objective 7.1: The project is located in a DAC.</p>
What performance metrics will be used to demonstrate that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project	<p>Objective 1.1: The performance metric used will be implementation of the project.</p> <p>Objective 1.4: The performance metric used will be implementation of planning efforts.</p> <p>Objective 5.2: The performance metric used will be implementation of planning efforts.</p>

outcomes.	Objective 7.1: The metric used will be completion of a project for a DAC.
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VI. Resource Management Strategies

Increase Water Supply	
Surface Storage-- Regional/Local	The project will increase local storage to meet fire flow requirements and significantly improve reliability of available water supply.

VII. Statewide Priorities

Climate Change Response Actions

- Adaptation to Climate Change: Water management system modifications that address anticipated climate

Ensure Equitable Distribution of Benefits

- Increase the participation of small and disadvantaged communities in the IRWM process
- Contain projects that address safe drinking water and wastewater treatment needs of DACs

Climate Change Adaptation

The project will increase water storage that could be utilized for enhanced domestic water supply during drought conditions and for fire protection from disasters caused by climate change.

GHG Emissions Reduction

The project would improve overall system-wide energy efficiency by reducing leaks/water losses and, therefore, reducing energy use by pumping and treating less water to meet the water supply needs of this disadvantaged community.

VIII. Project Status and Schedule

Project Stage	Description of Activities in Each Project Stage	Planned/Actual Start Date	Planned/Actual Completion Date
Planning	Technical Study Completed	February 2008	April 2008
Design	100% Design Completed	July 2011	February 2012
Environmental Documentation (CEQA/NEPA)	CEQA/NEPA Documents Completed	July 2011	February 2012
Permitting	TBD- pending funding	July 2011	February 2012
Tribal Consultation (if not applicable, indicate by N/A)	N/A	N/A	N/A

Construction/ Implementation	Pending funding	March 2015	July 2015
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IX. Project Technical Feasibility

a. List the water planning documents that specifically identify this project.	
b. List the adopted planning documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, etc.)	
c. List technical reports and studies supporting the feasibility of this project.	Project plans and specifications – Kennedy/Jenks Consultants – February 2012
If you are an Urban Water Supplier:	
1. Have you completed an Urban Water Management Plan and submitted to DWR?	NYWD supplies less than 3,000 AF to its domestic customers and has less than 3,000 domestic connections. Therefore, NYWD is not required to complete an UWMP.
2. Are you in compliance with AB1420?	N/A
3. Do you comply with the water meter requirements (CWC Section 525)?	N/A
4. If the answer to any of the questions above is “no,” do you intend to comply prior to receiving project funding?	N/A
If you are an Agricultural Water Supplier:	
1. Have you completed and submitted an AWMP?	NYWD does not provide agricultural water supplies to over 10,000 acres and therefore is not required to complete an AWMP.
2. If not, will you complete an AWMP prior to receiving project funding?	N/A
If the project is related to groundwater:	
1. Has GWMP been completed and submitted for the subject basin?	N/A
2. If not, will the GWMP be completed within one year of the grant submittal date?	N/A

IRWM Guidelines suggest that common emissions sources from projects are related to:

- Operations of construction equipment
- Passenger vehicle trips during construction and operation
- Transportation of construction materials and equipment
- Transportation of material inputs for O&M
- Transportation of material outputs or production
- Generation of electricity used for operation of projects
- Waste generation and disposal of materials during construction and operation

Reduction strategies during project design and project mitigations under CEQA/NEPA review could include any of the applicable measures listed below:

Project construction-related transportation

- Offer local contractor preference and local purchase of construction materials where possible to reduce transportation-related emissions
- Encourage or require carpooling within construction contracts
- Encourage use of B20 fuels in construction equipment and other diesel machinery
- Restrict inappropriate OHV use, particularly in sensitive or restored areas where project investments have been made

Project construction-related emissions

- Encourage or require recycling of construction waste, such as brick, concrete, lumber, metal, and dry wall, as may be required within Shasta County from the proposed Lumber Waste Diversion Ordinance
- Pursue projects in this Plan that would use biomass from fuels reduction projects
- Capture sequestration opportunities with forest, sage-steppe, riparian, and grassland revegetation, stabilization, and restoration projects

Water supply and water efficiency improvements

- Select project components and upgrades, such as pumps, based on energy efficiency
- Schedule pumping to reduce peak hour (12:00 to 5:00, highest carbon output) energy use
- Select projects that offer the best water conservation options among project choices (e.g., greatest reuse/recycling, greatest reduction in leakage or evaporation per mile)
- Install solar generation equipment for pumping and other energy-generation needs to reduce both emissions and long-term O&M costs
- Increase conservation/reduce water use (and thus the energy and emissions related to its delivery) with increased metering, favorable rate incentives for conservation, and education within utility bills