



Sonoma Water

Clean. Reliable. Essential. Every Day.

***RRCSD
Headworks, Lift Stations,
and Force Mains Project***

05/10/2023



George Lincoln, PE

Parastou Hooshialsadat, PE

Agenda



- Introduction
- Project Background
- Improvement Areas
- Project Progress
- Force Mains Improvements
- Lift Stations Improvements
- Wastewater Treatment Plant Improvements
- Estimated Construction Cost
- Questions

Project Background

- 2014 Main Force Main Rupture
 - Enforcement Action by North Coast RWQCB
- 2017 Initial Grant Application



- 2019 Supplementary Grant Application
- 2020 Awarded \$810,000 for assessment and initial design

Improvement Areas

No additional connection or increased capacity is intended for the project.



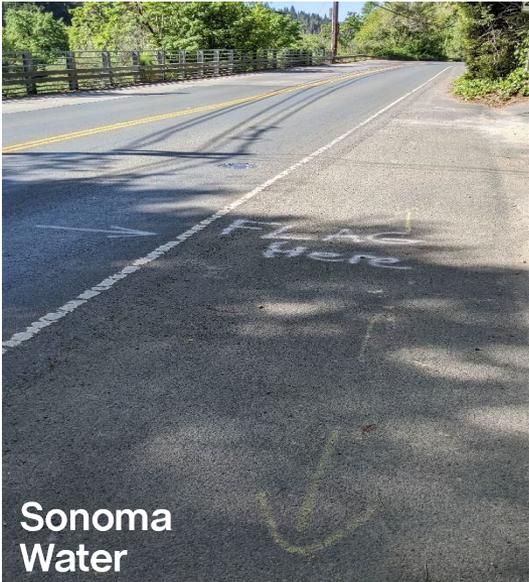
Project Progress



- Lift Stations Condition Assessments and Alternative Analysis
 - August 2022 (completed)
- Project Engineering Report
 - April 2023 (completed)
- Design Development
 - In progress
- Geotechnical Investigations
 - June 2023
- CEQA Document
 - Public Review: June/July 2023
 - Board Approval: August 2023
- SRF Construction Application
 - September 2023

Force Mains Improvements

**Rio Nido LS
Force Main**



**Beanwood
LS Force
Main**

**Main LS
Force Main**



Lift Stations Improvements



➤ Mechanical Improvements

- Replace pumps, discharge elbows, guide rails and brackets
- Install new flowmeter

➤ Electrical Improvements

- Dedicated PG&E Power
- Provide new generators
- Install new emergency site lighting

➤ Site Improvements

- Elevate new equipment out of flood zones
- Construct new chain link access gate

Wastewater Treatment Plant Improvements



- Headworks
 - Flowmeter
 - Concrete Lining
 - Bar Screen
 - Replace Corroded Metal
- Grit Chamber
 - Pumps
 - Air Supply
 - Grit Disposal
 - Concrete Lining

Estimated Construction Cost

Construction	Estimated
Treatment Plant	\$ 2,899,500.00
Force Mains	\$ 18,808,800.00
Lift Stations	\$ 19,039,700.00
Total	\$ 40,748,000.00

**Construction Cost is 100%
covered by the State Revolving
Fund.**



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George Lincoln, PE

George.Lincoln@scwa.ca.gov

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