

Sonoma Water

Clean. Reliable. Essential. Every Day.

Water Advisory Committee Transmission System Projects

November 4, 2024

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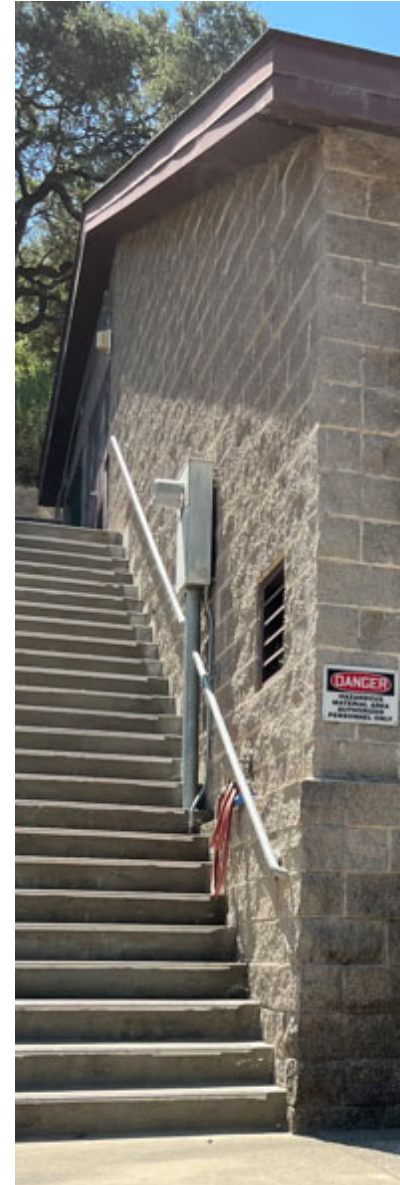
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Capital Improvement Projects

O&M Projects

Planning Efforts



Occidental Rd Well #3 Drilling and Activation

- Drilling project completed in April 2024
- Topside design delayed due to well development – advertising December 2024
- Substantial completion in October 2025
- Plan, permit, test and implement recharge components internally (2026)

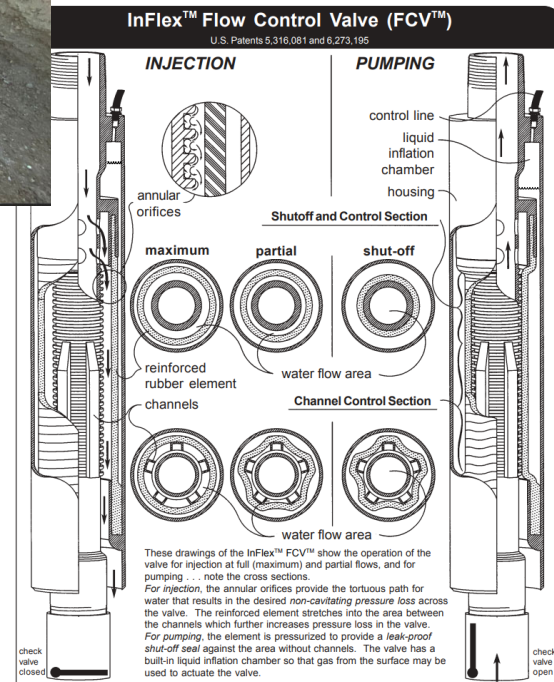
*Santa Rosa Plain Wells Drought Resiliency
Project awarded \$6.9M State Drought
Relief Grant*



Sebastopol Rd Well Activation

- Design completed and project advertised in Nov 2023
- Underground work to be completed in coming weeks
- Well conditioning and cycling through Spring 2025
- ASR pilot study through and technical addendum Oct 2025

Santa Rosa Plain Wells Drought Resiliency Project awarded \$6.9M State Drought Relief Grant



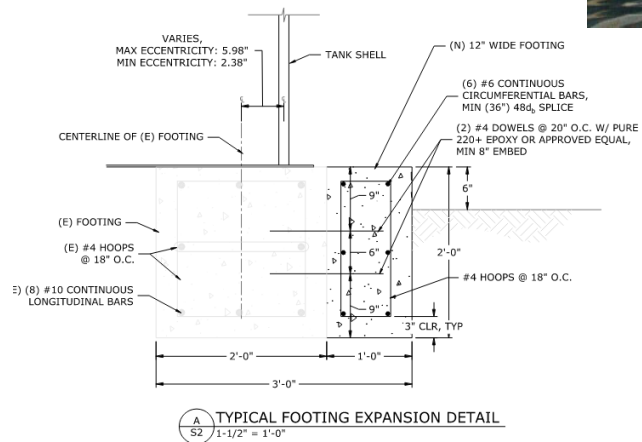
Kastania Tank Recoat

- Project Goals
 - Recoat interior/exterior of tank
 - Replace cathodic protection
 - Seismic analysis/retrofits
 - Modifications to tank appurtenances
- Completed and back in service September 2024
- Fun fact – Kastania tank will take roughly 6,850 gallons of paint to recoat – enough to paint an average 1500 ft² home 250 times



Cotati #3 Recoat and Seismic Project

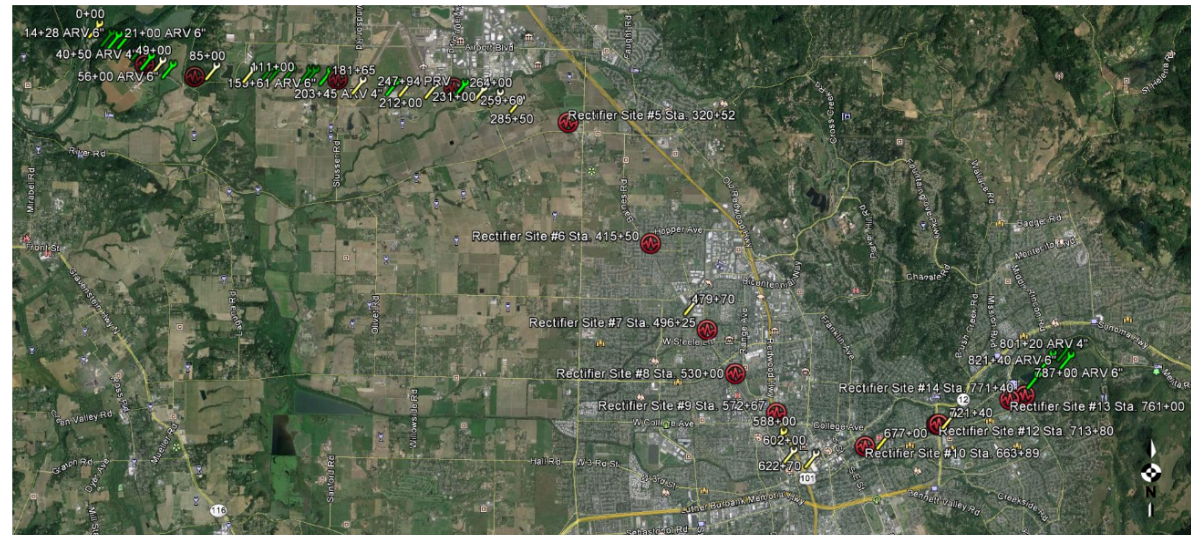
- 18MG tank – largest in system
- Bids received October 2024
 - Recoat interior/exterior of tank
 - Cathodic protection
 - Seismic retrofit of foundation
 - Modifications to tank appurtenances
- Construction anticipated Feb 2025 – Jan 2026



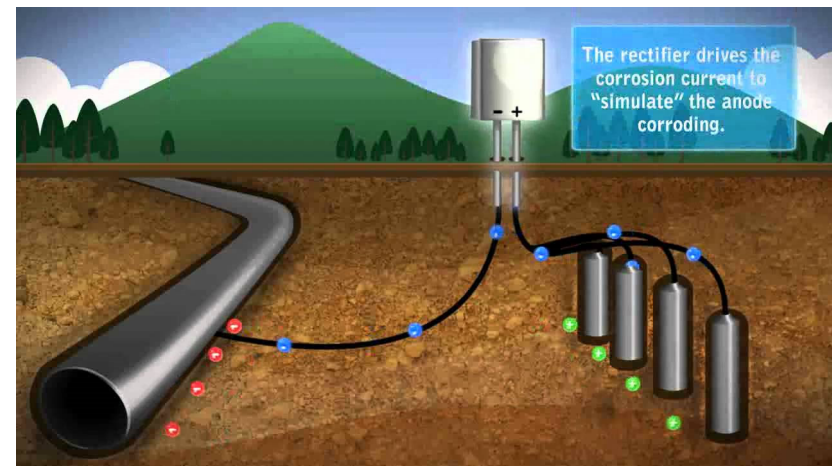
Santa Rosa/Cotati Aqueduct Cathodic Protection

- Project split in 2 phases based on ease of R/W and permitting
 - Phase 1
 - 11 total rectifier/anode well sites
 - 11 CP stations
 - Phase 2 –
 - 20 total rectifier/anode well sites
 - 39 CP stations
- Significant coordination with PG&E
- Phase 1 design progressing with target advertise Feb 2025
- Phase 2 design to follow with target advertise Jan 2026

SANTA ROSA AQUEDUCT

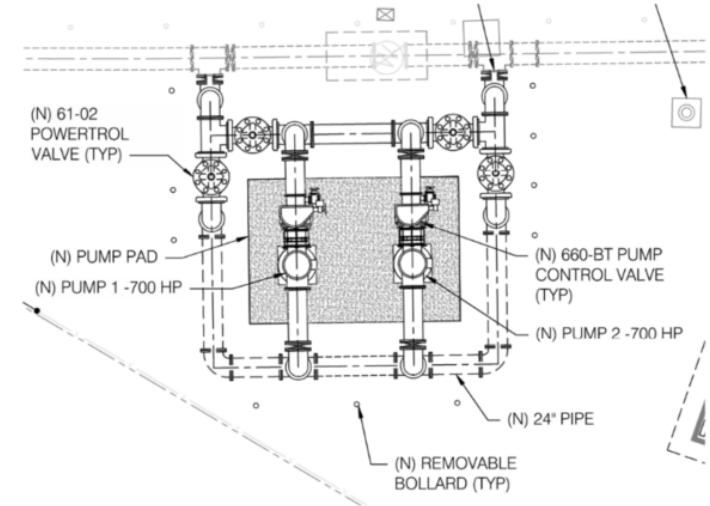


Proposed Rectifier Proposed CTS – Excavation Required Proposed CTS – No Excavation Required



Wilfred Booster Electrical Upgrade

- Project includes
 - Replace electrical switchgear building and components
 - Add 2nd pump set and piping for reliability/resiliency
 - Capable of pumping north and south
- Electrical switchgear prepurchase in June 2024
- Advertise scheduled for May 2025

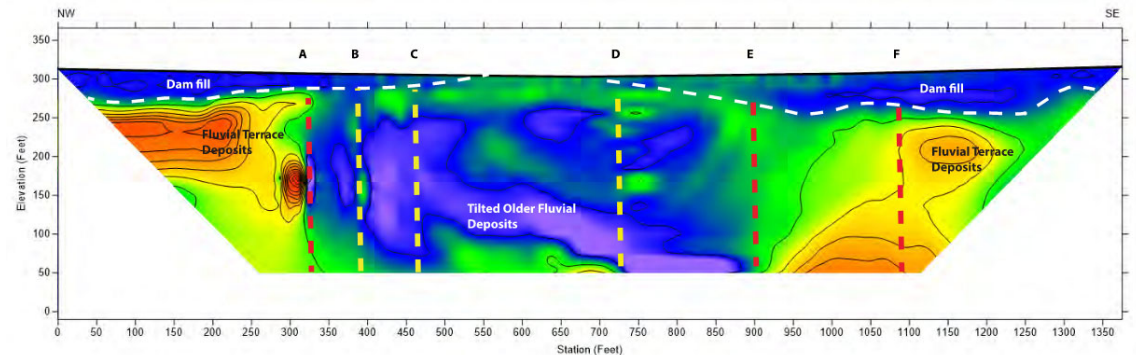


Designs in Progress

- Bennett Valley Fault Crossing
 - Seismic resiliency pipeline project
 - 30% design complete with target advertise Summer 2025
- Treatment Modernization Upgrades
 - Preliminary feasibility completed Oct 2024
 - Multi-phase, multi-year project with Phase 1 design kicking off
- Wohler Demuth
 - Emergency storage facility
 - Design kicked off with target advertise Summer 2026
- Kawana-Ralphine-SBS Pipeline - Ph 1
 - In process of finalizing scope with consultant for phase 1 design, environmental, and right-of-way
 - Next phase will utilize recent easement acquisition through Southeast Greenway



Red = Primary fault trace Yellow = Secondary fault trace



Tank Washout Inspections, Visual Inspections, and Condition Assessments

- Washout Inspections

- Ralphine 1, 2, 3 & 4
- Eldridge 1
- Sonoma 1&2
- Annadel 1 & 2
- Kawana 1 (in progress)
- Cotati 2 (FY 24/25)
- Kawana 2 (FY 25/26)
- Eldridge 2 (FY 25/26)



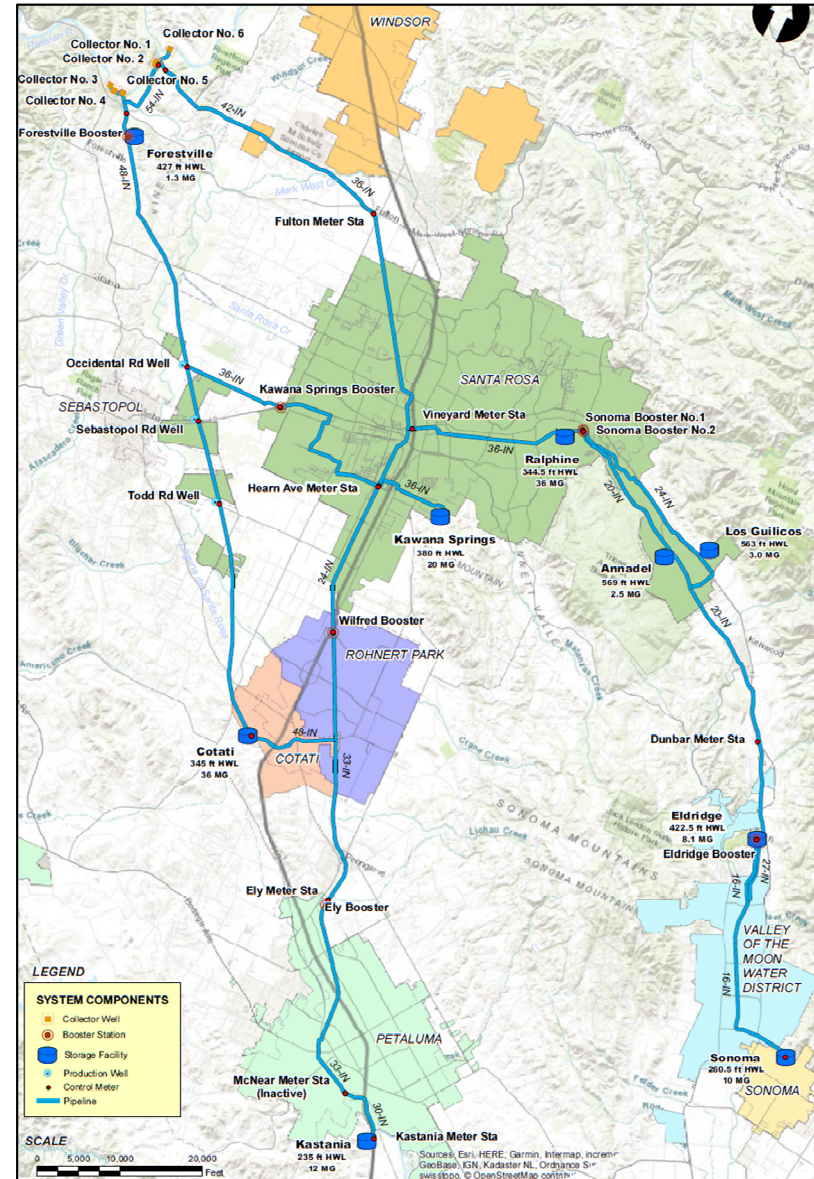
10 - Year Water Storage Tank Maintenance Agreement

| | FY 22/23 | FY 23/24 | FY 24/25 | FY 25/26 | FY 26/27 | FY 27/28 | FY 28/29 ⁽²⁾ |
|--|-------------|-------------|-------------|-------------|-----------|-----------|-------------------------|
| Tanks Inspected⁽³⁾ | 15 | 13 | 17 | 16 | 15 | 18 | 16 |
| Tanks Drained & Cleaned | 5 | 4 | 2 | 2 | 0 | 5 | 5 |
| Coating Repairs (Internal & External) | 3 | 6 | 2 | 2 | 0 | 0 | 0 |
| Minor Structural Repairs | 3 | 6 | 2 | 1 | 0 | 0 | 0 |
| Cathodic Protection Upgrades | 2 | 11 | 1 | 2 | 0 | 0 | 0 |
| Regulatory & Safety Upgrades | 3 | 6 | 2 | 2 | 0 | 0 | 0 |
| Cost = | \$1,146,900 | \$1,598,150 | \$1,429,457 | \$1,400,548 | \$340,348 | \$695,680 | \$515,681 |



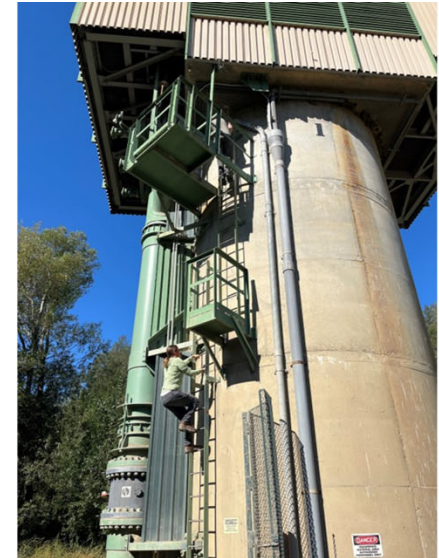
Comprehensive Master Plan

- Task 1 complete:
 - Water System Baseline
- FY24/25:
 - Task 2 – Water Demand Forecasting
 - Task 3 – Basis of Cost Information
 - Task 4 – Methodology for Project Prioritization
- FY25/26:
 - Task 5 – Generate Project Groupings
- FY26/27:
 - Task 6 – Compile Water System Master Plan



DDW Sanitary Survey Inspection

- Comprehensive Sanitary Survey Inspection conducted on September 24th & 25th
- Attended by 10 DDW Staff members
- Staff inspected Sonoma Water Operations Room, SCADA System, all six collector wells, disinfection and corrosion control facilities, all 18 storage tanks, Todd Road Well and two booster pump stations.
- Deficiency findings: replace chlorine solution rotometer in Collector 6, minor rust and graffiti on five tanks, increase security on tank sites
- No findings on: pumps, system management and operation, monitoring and reporting, operator compliance with state requirements





**Sonoma
Water**

Questions?

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