



# Sonoma Water

**Clean. Reliable. Essential. Every Day.**

## Water Transmission System Capital Projects Update

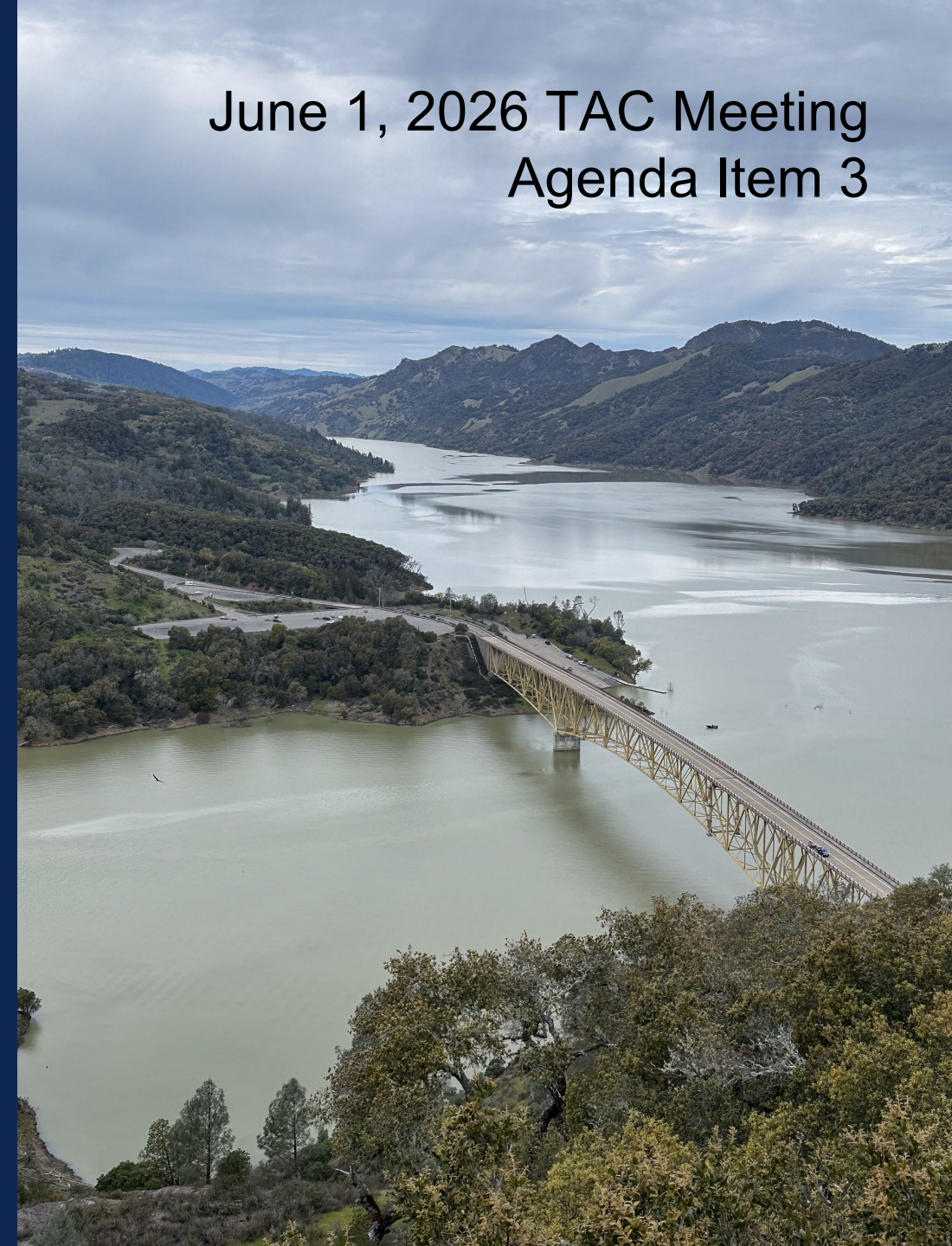
WAC TAC Meeting

June 1, 2026

Carlos Diaz  
Deputy Director of Engineering  
[carlos.diaz@scwa.ca.gov](mailto:carlos.diaz@scwa.ca.gov)

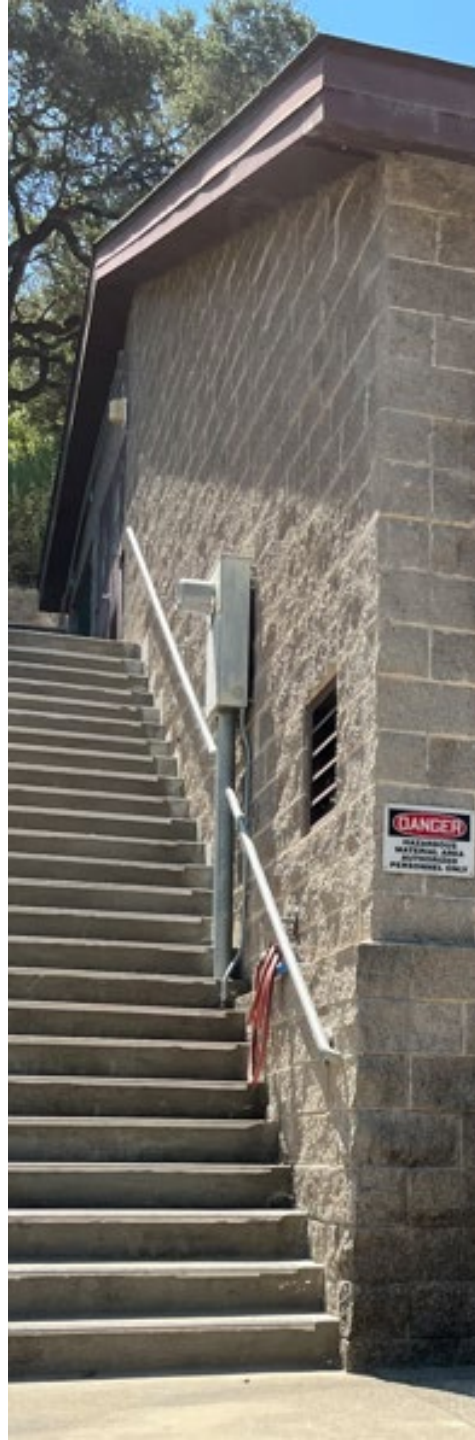
    [sonomawater.org](https://www.sonomawater.org)

June 1, 2026 TAC Meeting  
Agenda Item 3



# Agenda

- Recently Completed and Active Construction
  - Major Updates by Project
- Capital Projects in Design
- Water System Comprehensive Master Plan



# Active and Recently Completed Construction Projects

Water System Construction Projects	Contract Value (\$)	Contract Award Date	Date of Completion
Ely Booster Station Hazard Mitigation	\$2,666,666	Mar 2022	Oct 2026
Santa Rosa Plain Water Supply Resiliency Project - Sebastopol Road Well Activation	\$3,102,798	Jan 2024	Apr 2026
Santa Rosa Plain Water Supply Resiliency Project - Occidental Road Well Activation	\$4,797,811	Mar 2024	May 2026
Cotati Tank No. 3 Recoating	\$6,962,100	Jan 2025	Jul 2026
Santa Rosa and Russian River-Cotati Intertie Aqueducts Cathodic Protection Upgrade Phase 1	\$2,178,583	Jul 2025	Jul 2026
Wilfred Booster Station Resiliency	\$6,809,340	Dec 2025	Aug 2027
Ralphine Tank No. 1 Recoating	\$3,971,410	Apr 2026	Mar 2027
Sonoma Tank No. 1 Recoating	\$1,497,150 **	Jul 2026 **	Mar 2027



# Ely Booster Station Hazard Mitigation

- Project scope
  - Replace and elevate electrical switchgear, valve actuators, MCC, and standby generator above 500-yr flood elevation
  - Replace sound attenuation structures
- FEMA hazard mitigation funding
- Electrical equipment delivered in October
- Existing generator still needs to be relocated and elevated
- Plans to energize switchgear delayed due to failed backup battery from Eaton
  - Rescheduled PG&E for June 23<sup>rd</sup>
  - 10-day shutdown to transfer power
  - Target FC date of Oct 2026



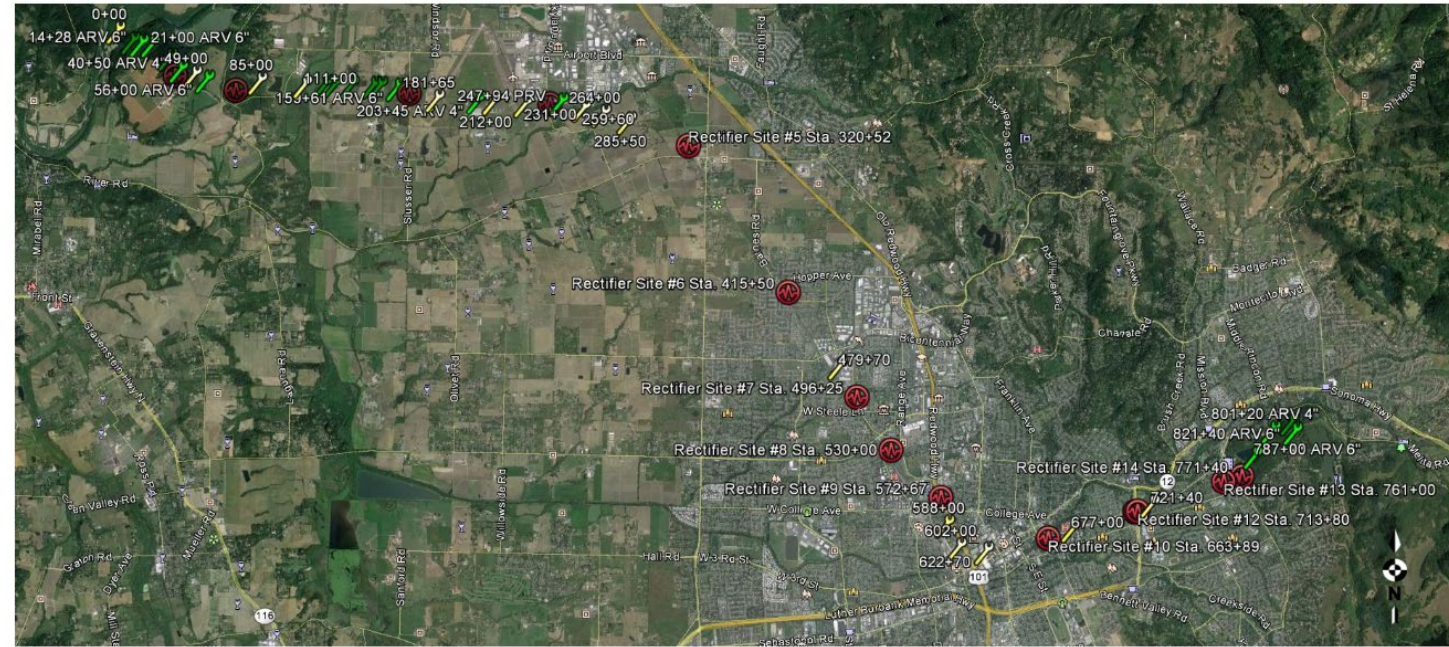
# Cotati #3 Recoat and Seismic Project

- 18MG tank – largest in system
  - Originally installed in 1992
- Project scope
  - Recoat interior/exterior of tank
  - Cathodic protection
  - Structural replacements and seismic retrofit of foundation
  - Modifications to tank appurtenances
- Awarded January 2025
- Progress update
  - Structural improvements completed
  - Exterior and interior coatings completed
  - Foundation widening completed in April
  - Final item is replacing the door sheet
  - Disinfection 2<sup>nd</sup> week of June
  - Back online late June




# Santa Rosa/Cotati Aqueduct Cathodic Protection

- Project split in 2 phases based on ease of R/W and permitting
  - Phase 1
    - 8 total rectifier/anode well sites
    - 8 CP stations
  - Phase 2 –
    - 17-21 total rectifier/anode well sites
    - 21-33 CP stations
  
- Significant coordination with PG&E
  
- Phase 1 awarded July 2025
  - All 8 anode wells installed
  - 11 of 12 test stations installed
  - Meter pedestals and rectifiers to be installed next
  
- Phase 2 ROW and permits in progress
  - Survey complete
  - Design underway
  - Award in FY27/28



 Proposed Rectifier

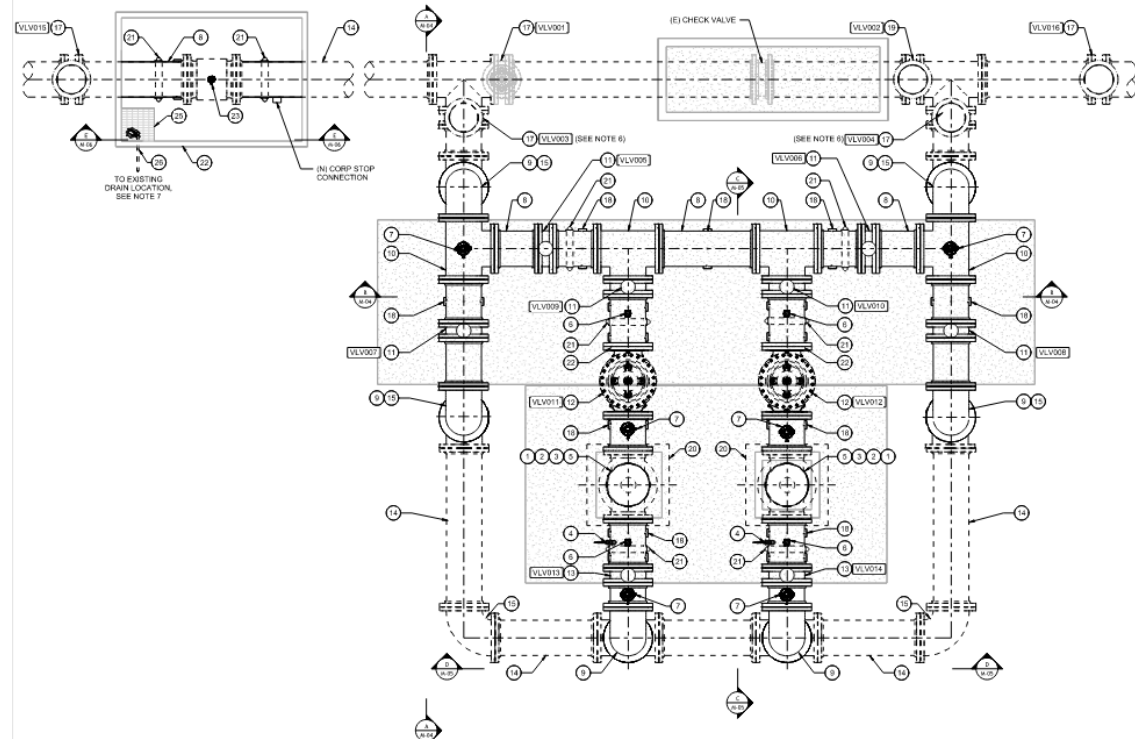
 Proposed CTS – Excavation Required

 Proposed CTS – No Excavation Required



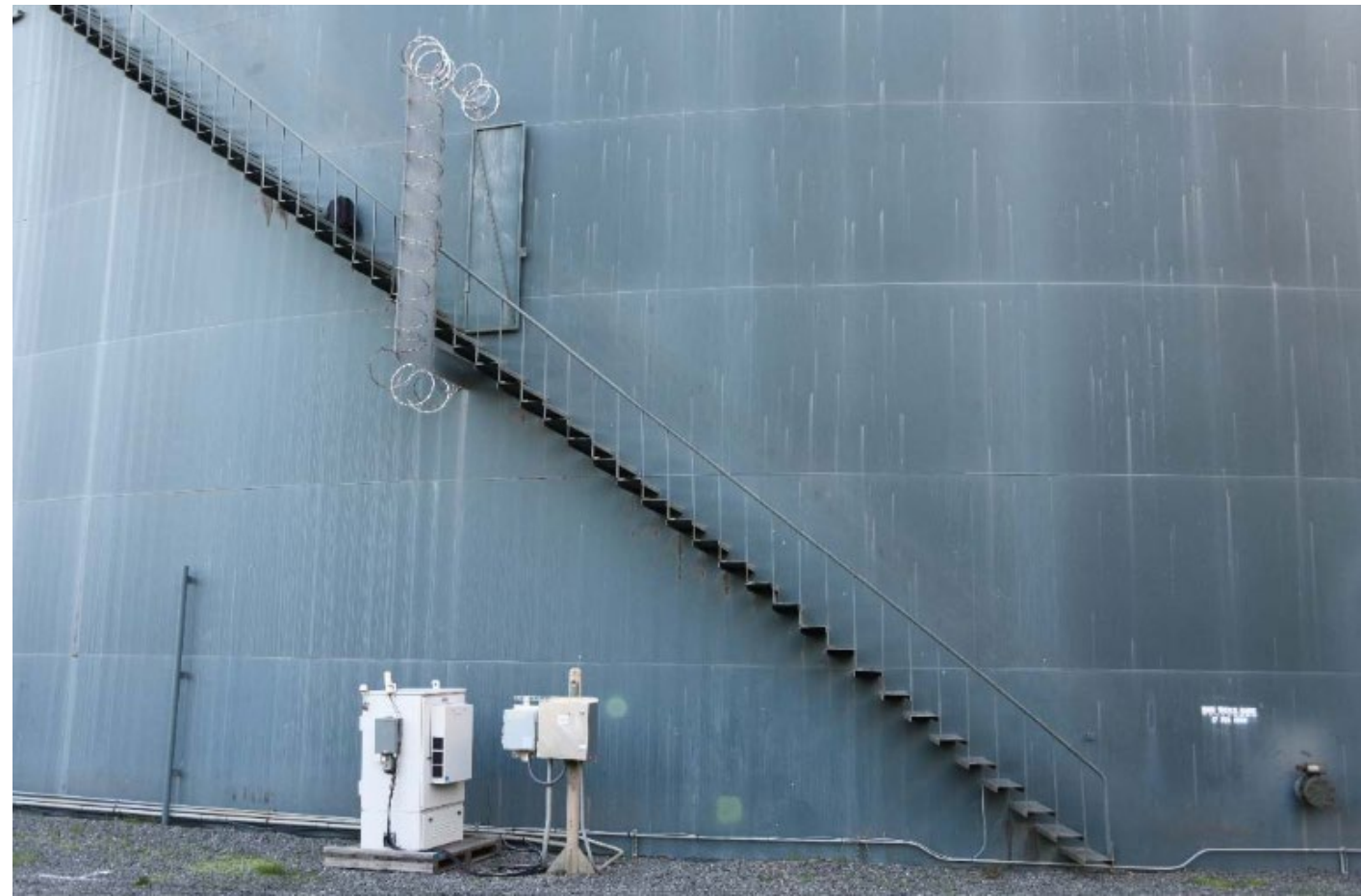
# Wilfred Booster Station Resiliency

- Project includes
  - New electrical building, switchgear, and VFDs
  - Replace 1<sup>st</sup> pump set
  - Add 2<sup>nd</sup> pump set and piping for reliability/resiliency
- Capable of pumping north and south
- Switchgear prepurchased June 2024 and delivered May 2026 w/exception of meter section
- Project awarded Dec 2025
- Processing RFIs/submittals on major products
- Construction has commenced
  - Demolition of existing piping and pumps
  - Site civil work to commence this summer
  - Plan is to be out of ground by Fall
  - New building and electrical to continue through winter
  - Transferring power Summer 2027



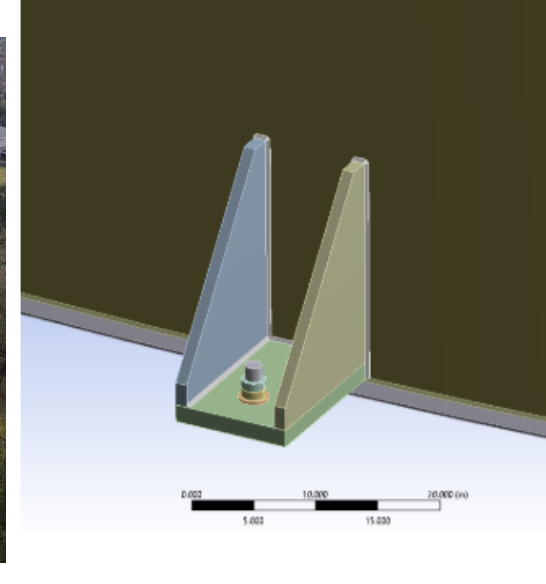
# Ralphine No. 1 Recoating

- 6MG tank
- Project scope
  - Recoating interior and exterior of tanks
  - Replacing or repairing corroded structural beams/elements and installing lateral bracing and new cathodic protection systems
  - Seismic mitigation (catwalks and inlet/outlet piping)
  - Security fencing
  - New French drain
- Project awarded April 2026
- Coordinating access with Regional Parks
- Preconstruction submittals in process with construction anticipated to commence late June/early July 2026

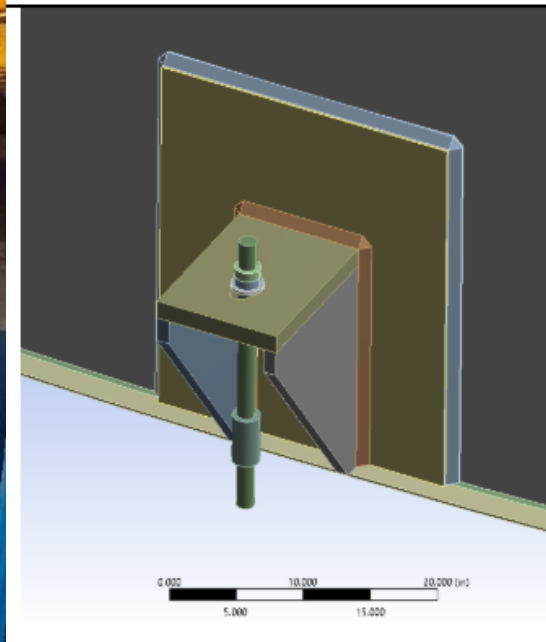


# Sonoma No. 1 Recoating

- 2MG tank
- Project scope
  - Recoating interior and exterior of tanks
  - Replacing or repairing corroded structural beams/elements and installing lateral bracing and new cathodic protection systems
  - Seismic retrofit of tank anchors
  - New electrical service, control panel, RTU, and controls
- Project opened bids May 12, 2026
- Anticipated to award July 2026



Existing Configuration



Retrofit Alternative 1 (Primary Recommendation)  
Add Doubler Plates, Reuse Anchor Chairs

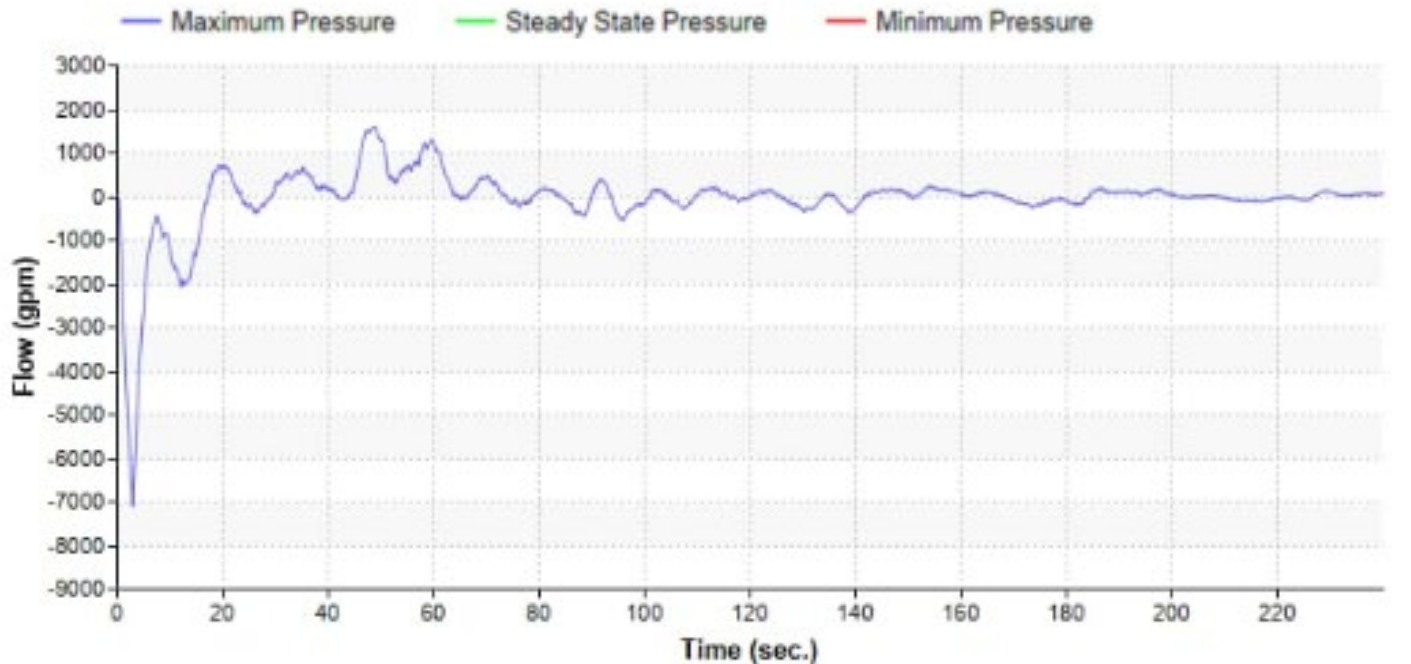
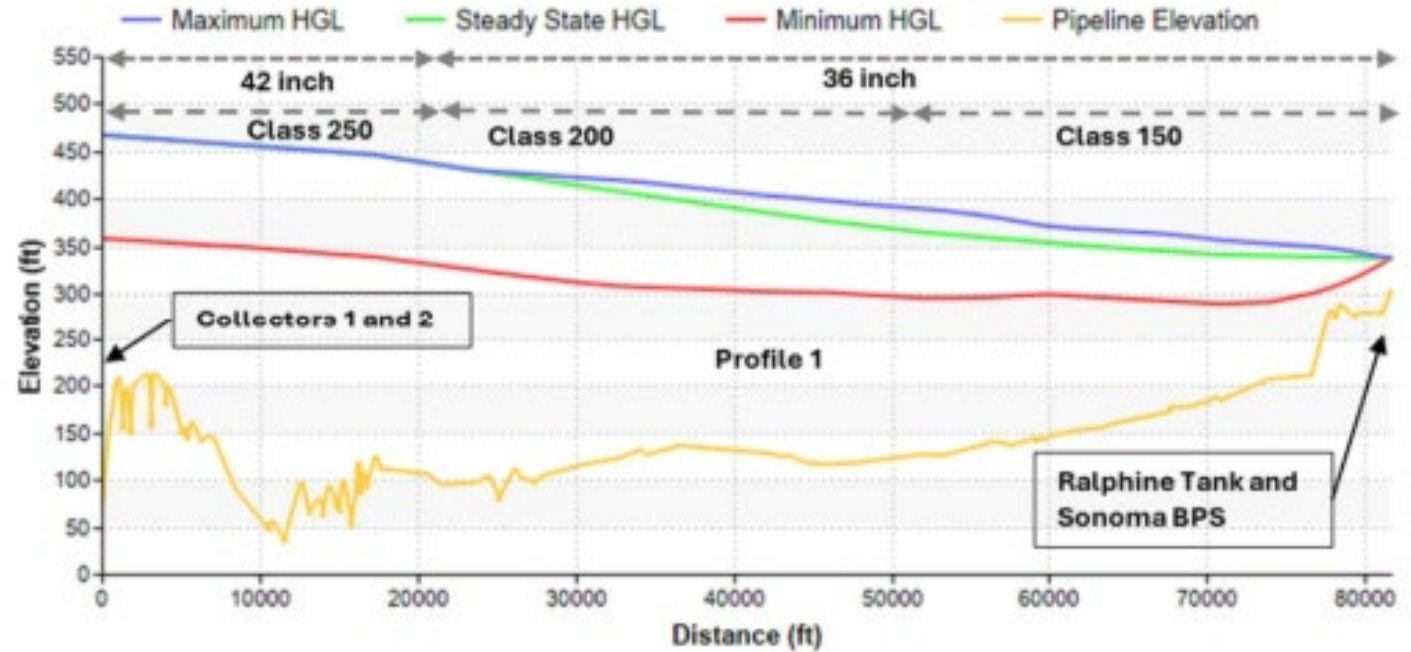
# Active Design Projects

	Current Design Stage	Planned Advertise Date
RDS Resiliency Improvements	99% design	June 2026
Warm Springs Dam Hydropower	99% design	Aug 2026
Bennett Valley Fault Crossing	90% design	TBD (awaiting FEMA funding)
Wohler Road Storage Facility	60% design	Jan 2027
Santa Rosa and Russian River-Cotati Intertie Aqueducts Cathodic Protection Upgrade Phase 2	50% design	Jan 2028
Water Treatment System Modernization – CT Compliance	50% design	Jan 2027
Ralphine No. 2 Recoat & Seismic	30% design	Apr 2027
Sonoma No. 2 Recoat & Seismic	30% design	Apr 2027
Mirabel Communication Resiliency	10% design	June 2027
Mirabel Hoist Upgrades	10% design	Jun 2027
Kawana Ralphine SBS Phase 1	10% design	Jul 2028



# Comprehensive Systemwide Transient Analysis

- Preliminary Results
  - System is resilient to most single-facility failures under current configurations
  - Existing surge mitigation infrastructure is critical and must remain operational
  - Specific vulnerabilities exist at the Sonoma Booster Station for single facility failure and at the collectors under complete collector failure
- Preliminary recommendations under development
  - Additional surge protection and power loss mitigation strategies
- Next step – evaluate effectiveness of proposed mitigation measures and develop a CIP plan to enhance system reliability and reduce transient risks





**Sonoma  
Water**

**Carlos Diaz**

Deputy Director of Engineering  
carlos.diaz@scwa.ca.gov



[sonomawater.org](http://sonomawater.org)