



Wildfire Season Preparedness

May 17, 2022



Outline

- Community Coordination
- Facilities
- Watershed Management
- Planning & Fundraising
- Rangers



After forest restoration treatment along Lakeview Fire Rd.

Community Coordination

- Fire Safe Marin Board Meetings
- Marin Wildfire Prevention Authority-Advisory Technical Committee
- One Tam Forest Health Strategy
- One Tam Agencies Resource Advisor Training & Planning
- Fire Chief Meetings and Fire Flow Project Prioritization
- Marin Conservation Leagues Fire & Environmental Working Group
- Ecological Sound Practices Partnership
- Fire Safe Marin Ember Stomp Event May 28th
- Watershed Site Visits with Stakeholders

Forest Restoration Work



Marin Water is working to implement multi-benefit forestry projects in several key areas across Mount Tamalpais Watershed lands in accordance with its *Biodiversity, Fire, and Fuels Integrated Plan*. The purpose of this work is to:

Restore forest health
Through the selective thinning of small diameter conifer trees (which would otherwise be naturally removed by wildfire in this fire-adapted landscape) and through the protection of oak woodlands from the spread of sudden oak death by reducing the volume of infected biomass

Conserve valuable native habitat
Through the removal of non-native invasive species such as French broom, which includes extensive early detection surveys for new weeds before they can become established

Improve wildfire resilience
To protect critical water storage and delivery infrastructure such as reservoirs, treatment facilities, pipelines, and dams—which are essential to providing clean water for more than 191,000 Marin Water customers

Increase understanding of forest ecosystem
Through extensive pre-project monitoring for nesting birds, bat roosts, woodrat nests, rare plants, sensitive wetland communities, snags, and other valuable habitat, which also ensures that work will not inadvertently harm natural resources

Marin's Forests Need Our Help!

Marin County's diverse landscape includes 125,000 acres of forest and woodland habitat, facing multiple stressors including changing climate, prolonged periods of drought, invasive plants, an altered fire regime, pests, diseases, and disturbances from past land use. The One Tam collaborative is working to develop a comprehensive Marin Regional Forest Health Strategy for Public Lands, a guidepost for One Tam partners—including Marin Water—to ensure forests remain resilient in the face of these forest health threats. Using science and data analysis, One Tam is working together to identify opportunities to protect or enhance all that the forests provide, including biodiversity, carbon sequestration, recreation, cultural landscapes, fresh water, and clean air.

Learn more about how this exciting new collaboration will protect our forests:

- marinwater.org/watershed-projects
- onetam.org/our-work/forest-health-resiliency



Provide the project work by the California Department of Forestry and Fire Protection Forest Health Program

Facilities

- Installing permanent generator at the San Geronimo Water Treatment Plant.
- Designing and installing new manual transfer switch to allow for emergency generator power at Marin Water Administration building.
- San Geronimo Treatment Plant roof replacement and wildfire hardening.
- Generator mobilization and operations preparation.



Facilities Vegetation Management

Vegetation work completed around water distribution facilities:

- 35 sites received tree pruning to elevate canopy, reduce fuels and remove hazardous trees. Planning to complete 5 additional sites by June 30, 2022.
- 60 sites (pump stations and tanks) received broom management and/other ladder fuel management work. Planning to complete remaining 15 sites by June 30, 2022.
- 65 sites received defensible space work targeting fine fuels. Planning to complete 135 additional sites by June 30, 2022.



Fairview Park Tank Before and After



Hawthorne Tank Before and After

Watershed

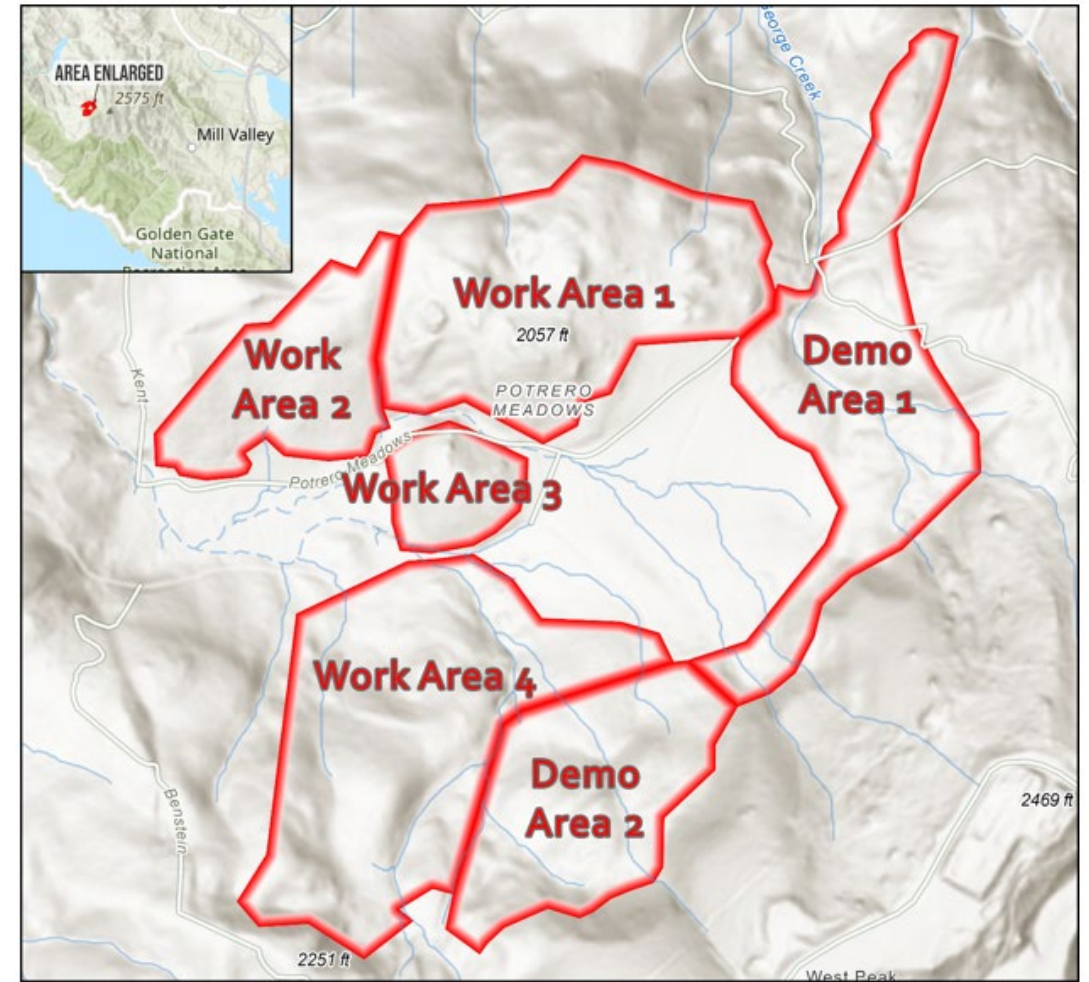
Watershed forest restoration and vegetation management work completed to date:

- 282 acres of fuelbreak maintenance work completed to date
- 146 acres of forest restoration and fuel reduction work completed
- 524 acres of broom management work completed
- 218 acres of priority weed management work completed to date



Potrero Forestry Fuels Modeling

- One Tam Forest Health Initiative
- Digital Mapping Solutions
 - Wildland Resource Management
 - Tukman Geospatial
 - Fire Modeling with FlamMap (USFS)
- 70 acre fuels treatments
 - ‘...dramatically lowered the predicted fire behavior...’
 - ‘...smaller flame lengths...lowered rates of spread’



Potrero Fuels Modeling – Flame Length

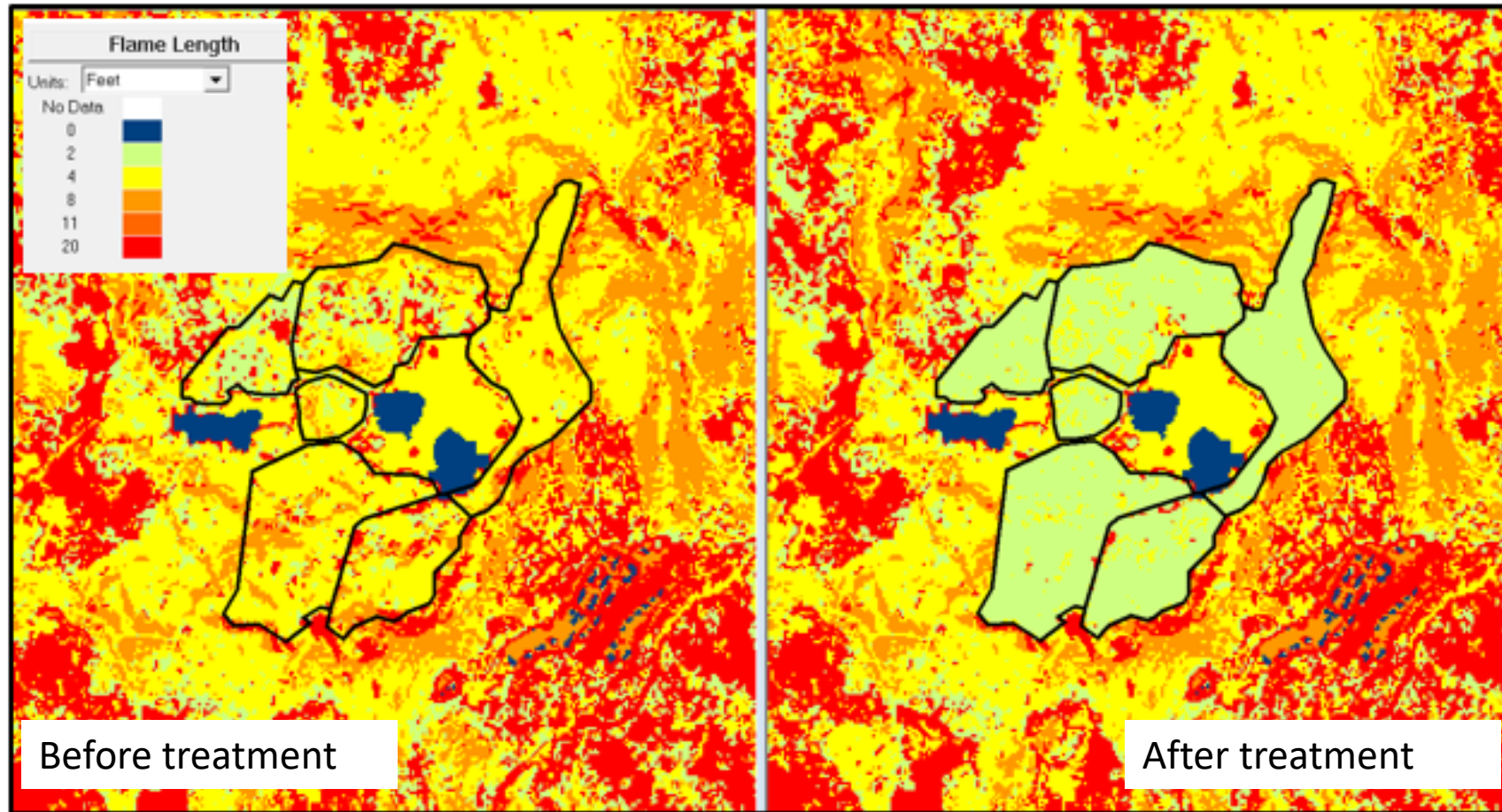


Figure 24. Pre-treatment (on left) and post-treatment (on right) flame length fire behavior prediction. Work areas shown with black outline.

Potrero Fuels Modeling – Fire Spread

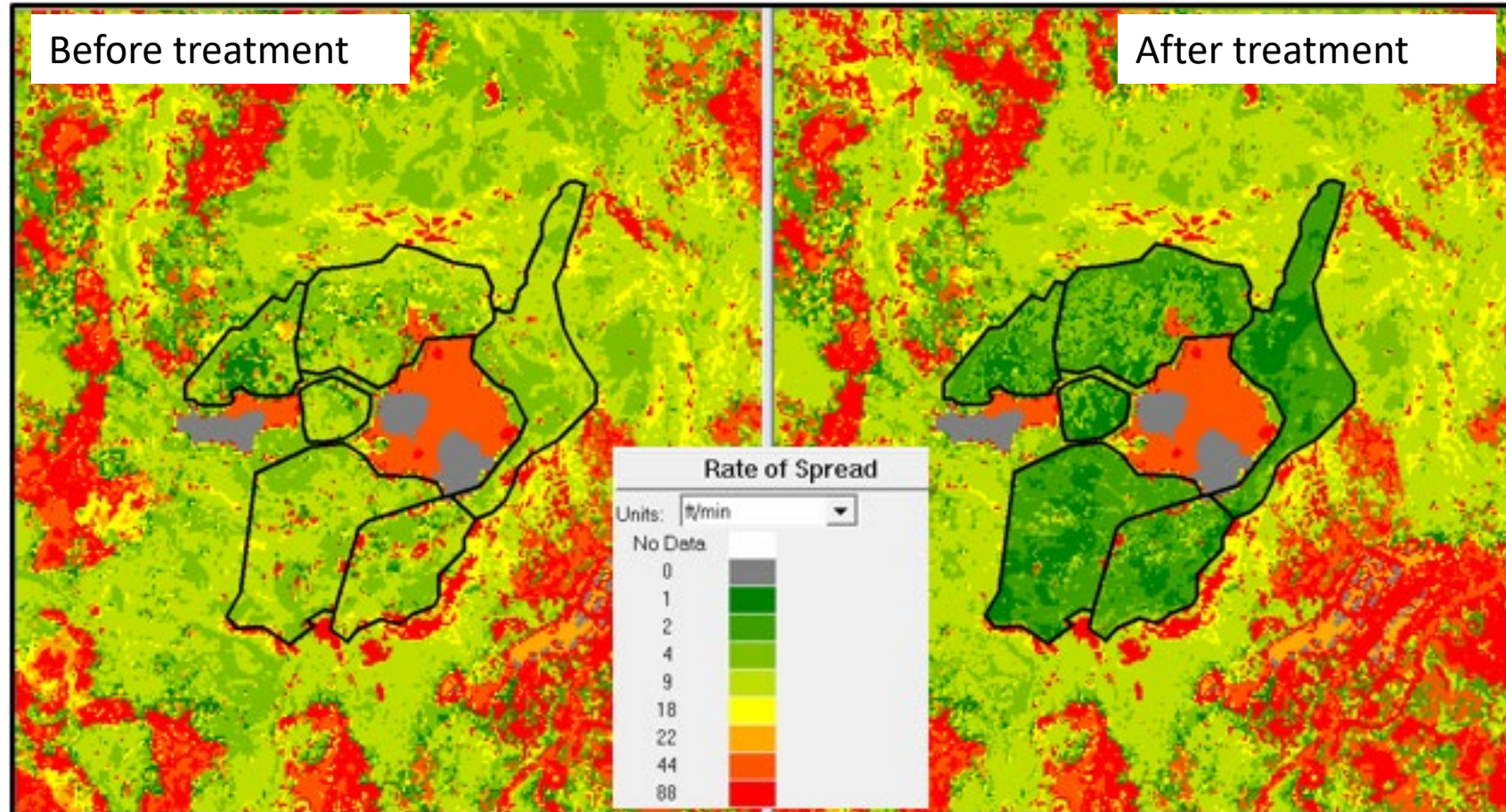
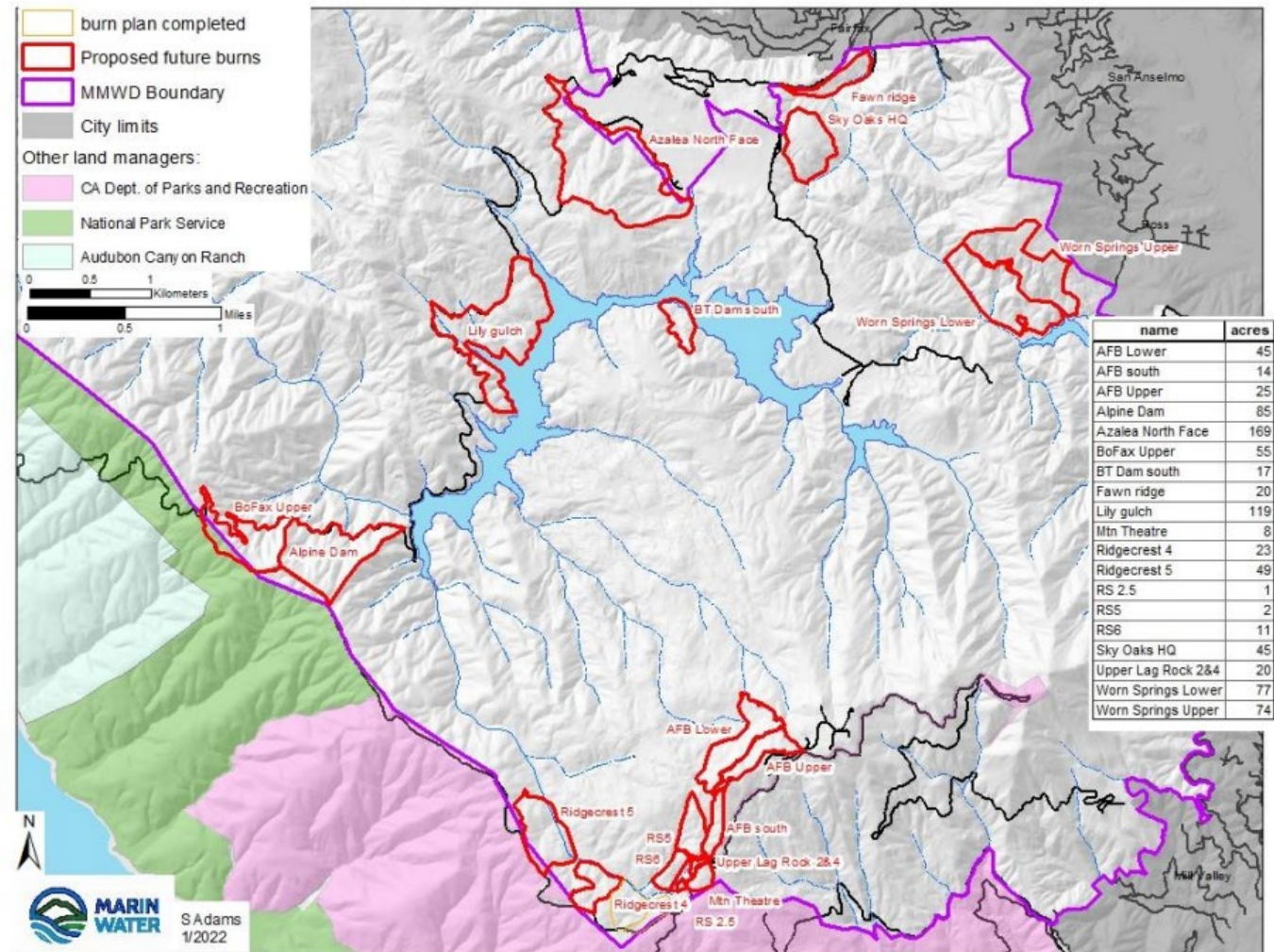


Figure 25. Pre-treatment (on left) and post-treatment (on right) rate of spread fire behavior prediction. Work areas shown with black outline.

Prescribed Fire Planning

- Site Evaluations
- Prescribed Fire Plans
- Federated Indians Graton Rancheria Consultation
- Air Quality Permit
- Fuel Moisture Monitoring
- MCF Coordination



PG&E Coordination

- 52 acres of Power Line Vegetation Management
- Facility Maintenance
 - 1 Power Pole Replaced
 - 3 Guy Wire Replacements
 - 4 other pole and hardware repairs
- District Compliance Review
 - Rare Plants
 - Northern Spotted Owls
 - Nesting Birds
 - Aquatic Resources



Planning & Fundraising

Awarded Grants

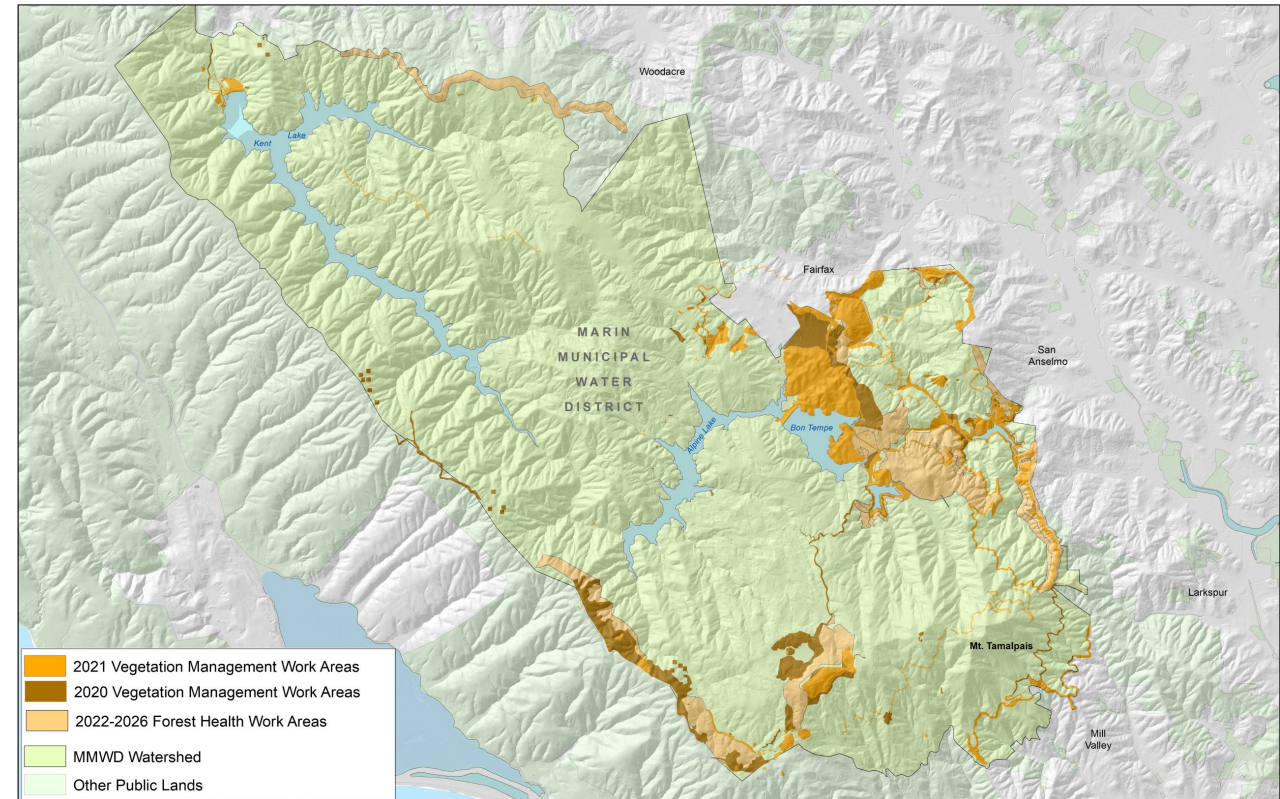
- Cal Fire Forest Health \$3.1 million
- California Coastal Conservancy \$800K

Submitted Grants

- Cal Fire Forest Health 2022 \$1.7 million
- California Coastal Conservancy \$780K
- Funding Request for Wildfire Hardening Projects

Planning

- Completed FEMA Hazard Mitigation Plan
- CIP Project Review and Prioritization



Rangers - Fire Season Preparedness

- Signage and Messaging
- Fire Vehicles
- Training



Signage and Messaging

- Fire Danger Signs
- Website and Social Media Messaging
- Public Notification and Alerts



Equipment Inventory

District's equipment supports initial attack and support County Fire's response.

Rangers' Trucks:

- 2 – Type 6 (200 gal)
- 3 – Type 7 (100 gal)

District Equipment

- Water Tender (2,200 gal)
- Type 3 Wildland Engine
- Boat with portable pump
- Dozer (Fire Rated)



Training



In-house Training and Annual Qualifications

Inter-Agency Training



Wildfire Season Operations

- Emergency Operations Center (EOC) preparation
- Marin County Fire coordination
- Fire weather monitoring and Red Flag closures
- Temporary generator operations
- MWPA project coordination
- Fire signage management
- Ongoing community outreach
- May 28th Ember Stomp event

Marin Center Fairgrounds Island 11:00am-5:00pm

