



- The District continued implementation of Year 5 of the Biodiversity Fire, & Fuels Integrated Plan through January 2024 with multiple Forest Fuel Reduction and Doug Fir Thinning projects in South and East Potrero Meadow, Fuelbreak Maintenance work across the watershed, and Invasive Broom Removal at Pine Point. The 75 acre South Potrero Meadow Project was completed in January. Additional completed projects included routine Defensible Space Maintenance around West Point Inn, and the West Peak and Middle Peak Communications Leases.
- The District completed the development of a 5-Year Strategic Plan. This thoughtful and comprehensive document will inform the 2024 Annual Workplan which will be reviewed at the coming Board Retreat.

# MARIN WATER GRANT STATUS

PROJECT DETAILS						REQUIREMENTS	BUDGET		
OPPORTUNITY	FUNDER	FUNDER PRIORITIES	APPLICATION DATE	MATCHING PROJECT	DESCRIPTION	STATUS	PREREQUISITE	FUNDS REQUESTED	MATCH REQUIREMENT %
<b>CURRENT APPLICATIONS</b>								<b>\$72,173,326</b>	
Local Water Supply Storage Projects	DWR	Water Supply	1/6/23	Water Supply	Three projects: recycled water, local storage enhancement, and winter water conveyance	Unfunded (Grant program funding not allocated for 2024)	UWMP Compliance	\$53,000,000	50
Desal Feasibility Study	USBR	Desalination	2/28/23	Deslaintation	Exploring new brackish desal in Petaluma	Open	None	\$200,000	50
Prop.1, Round 2 IRWM Disadvantaged Community	DWR	Water Infrastructure	12/1/22	Marin City/San Rafael Infrastructure	Replacing aging transmission lines and laterals in Marin City and San Rafael's Canal District	Funded	IRWM CC Approval	\$6,500,000	0
Forestry Corps	CCNB	Vegetation Management	Jan 2023	Ongoing Forestry work	Workforce development; state funding directly to CCNB to fund crews working on the watershed	Funded	Corps Partnership	\$500,000	0
Fisheries Restoration Grant Program	CDFW	Fisheries	4/20/23	Lagunitas Creek Restoration	Funding for Phase II site design and CEQA	Funded	30% designs	\$723,000	5
Lagunitas Creek Salmonid Spawning Gravel Improvement Project	DWR Riverine	Fisheries	11/1/22	Lagunitas Creek Restoration	Gravel augmentation for Lagunitas Creek	Funded	None	\$500,000	0
Prop 1, Fisheries Restoration	CDFW	Fisheries	7/1/23	Lagunitas Creek Restoration	Lagunitas Creek Restoration Sites 1-6	Funded	80% designs	\$4,422,898	0
CA Division of Boating & Waterways	NRA	Water Quality	7/1/23	Reservoir Water Quality	Monitor and prevent infestation of quagga and zebra mussels	Funded	NA	\$88,800	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implementation for 2-3 years	Open	CEQA	\$6,000,000	0
WaterSMART Aplied Science	USBR	Fisheries	10/15/2023	Advanced Weather Modeling	Funding for weather modeling to inform water resources management	Open	TBD	\$150,628.00	50%
WaterSmart Energy Efficiency	USBR	Conservation	2/22/2024	AMI	Funding to expand AMI	Open	Environmental Compliance	\$1,000,000	50%
<b>UPCOMING OPPORTUNITIES</b>								<b>\$0</b>	
Hazard Mitigation Program	FEMA	Natural Hazards	Summer 2023	Treatment Plant Clarifiers	Funds to address seismic hazards in water treatment facilities	TBD	NOI APPROVAL	TBD	
WaterSMART Planning & Design	USBR	Water Supply	4/2/2024	Water Supply Planning	Funding for advancing implementation of Strategic Water Supply Projects	Open	TBD	TBD	
<b>LONG TERM OPPORTUNITIES (ongoing development)</b>									
2024 Water Bond	State of CA	Water supply projects	Fall 2024	SWSA Water Supply Projects	Currently in Legislature	In legislature	Voter approval; District participation	TBD	
Water Resources Development Act	Army Corps of Engineers	Water supply projects	FY 2024	SWSA Water Supply Projects	Pursuing for No Regrets and regional projects	In appropriations	Authorization (secured 2022)	\$28,000,000.00	
Small Storage Program	USBR	Water Supply	Fall 2024	Phoenix Lake	Funding for new water supply projects	TBD	Approved Feasibility Study	TBD	

**DISCUSSION**

**B. SUMMARY:**

- AF = Acre Feet
- Mg/L = milligrams per liter
- MPN = most probable number
- MPY = mils per year
- MG = million gallons
- NTU = nephelometric turbidity units

**1. Water Production:**

	FY 2023/24		FY 2022/23	
	(million gallons)	(acre-feet)	(million gallons)	(acre-feet)
<b>Potable</b>				
Total production this FY	4,354	13,362	4,144	12,717
Monthly production, January	431	1,323	424	1,302
Daily average, January	13.91	42.69	13.68	41.99
<b>Recycled</b>				
Total production this FY	163.78	502.62	143.02	438.91
Monthly production, January	11.99	36.79	6.17	18.94
Daily average, January	0.39	1.19	0.20	0.61
<b>Raw Water</b>				
Total production this FY	38.84	119.20	42.81	131.38
Monthly production, January	0.00	0.00	0.00	0.00
Daily average, January	0.00	0.00	0.00	0.00
<b>Imported Water</b>				
Total imported this FY	1,721	5,281	876	2,689
Monthly imported, January	49	151	95	292
<b>Reservoir Storage</b>				
Total storage	25,927	79,566	25,884	79,435
Storage change during January	3,308	10,153	4,584	14,068
<b>Stream Releases</b>				
Total releases this FY	2,009	6,166	1,642	5,038
Monthly releases, January	181	555	59	182

<b>2. <u>Precipitation:</u></b>	<u>FY 2023/24 (in.)</u>	<u>FY 2022/23 (in.)</u>
Alpine	26.21	37.03
Bon Tempe	23.09	36.07
Kent	26.88	33.49
Lagunitas *	27.70	45.19
Nicasio	17.06	30.21
Phoenix	26.83	41.43
Soulajule	17.26	30.41

\* Average to date = 30.3 inches

### **3. Water Quality:**

<u>Laboratory:</u>	<u>FY 2023/24</u>	<u>FY 2022/23</u>
Water Quality Complaints:		
Month of Record	7	4
Fiscal Year to Date	51	97
Water Quality Information Phone Calls		
Month of Record	10	2
Fiscal Year to Date	26	54

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,965 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 1.72 (0.37 – 3.17) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: No flushing events were performed for this month on record.

Disinfection Program: No new pipelines were disinfected during the month of November. Performed chlorination on 10 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 21 water quality-monitoring events on storage tanks for various water quality parameters this month to help ensure compliance with bacteriological water quality regulations.

Summary:

The lab treated 10 tanks for low chlorine and checked an additional 21 tanks for low chlorine residual in January 2024.

**4. Water Treatment:**

<u>Treatment Results</u>	<u>San Geronimo</u>		<u>Bon Tempe</u>		<u>Ignacio</u>	
	Average	Monthly Goal	Average	Monthly Goal	Average	Monthly Goal
Turbidity (NTU)	0.05	≤ 0.10	0.04	≤ 0.10	0.04	≤ 0.10
Chlorine residual (mg/L)	2.76	2.75 *	2.78	2.75 *	2.83	2.75 *
Color (units)	0.6	≤ 15	0.6	≤ 15	0.0	≤ 15
pH (units)	7.8	7.8*	7.8	7.8*	8.0	8.1**

\* Set monthly by Water Quality Lab

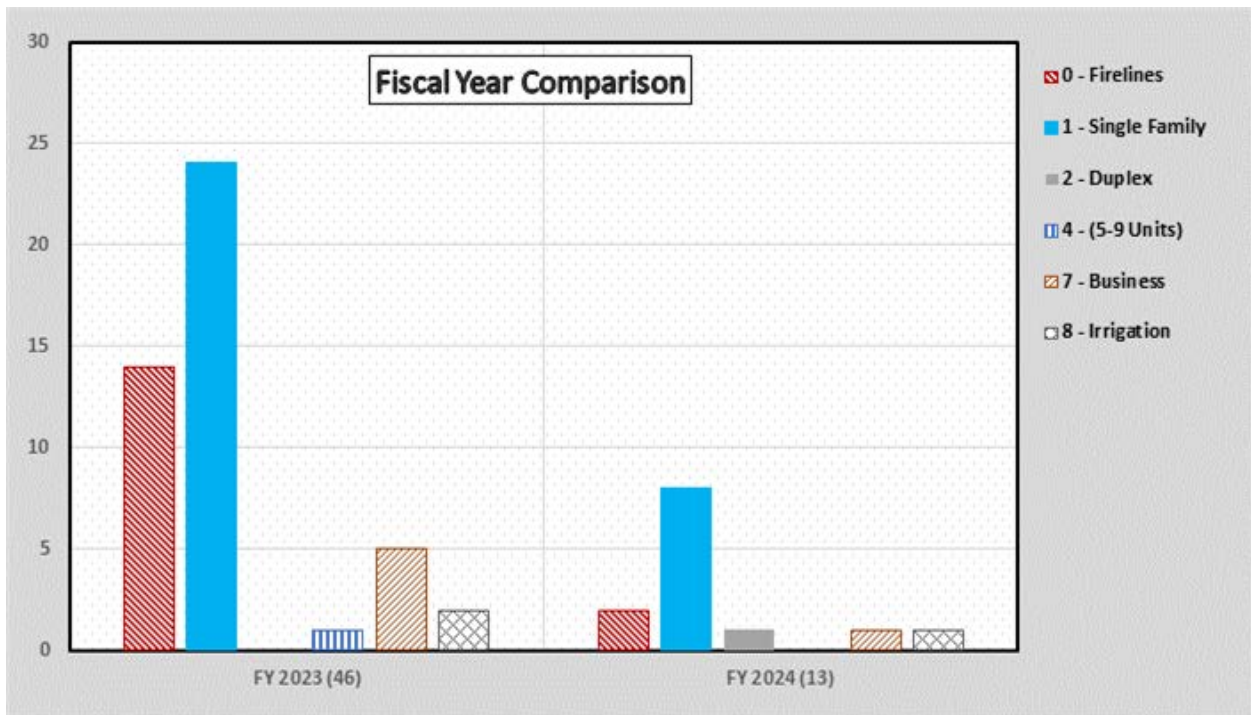
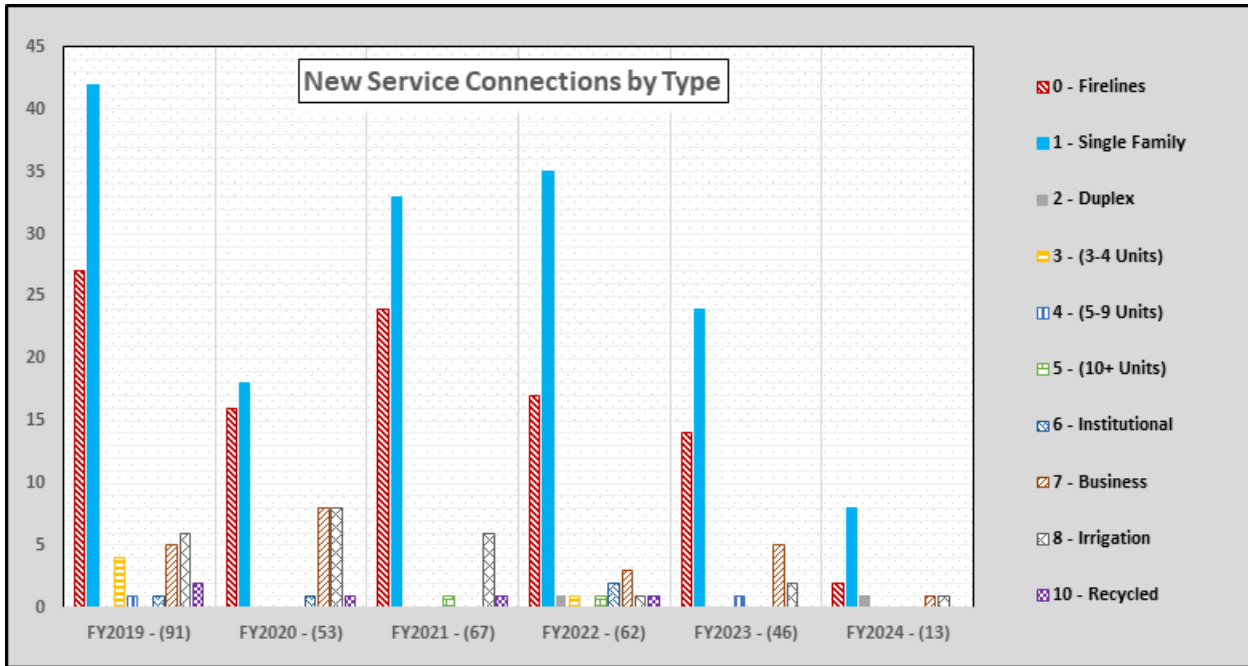
\*\* pH to Ignacio is controlled by SCWA

**5. Capital Improvement:**

- a. Pine Mountain Tank Phase 1 – Rough Grading Project (D21043): The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. This project (Phase 1) will excavate approximately 45,000 cubic yards of hillside and will install a soil nail retaining wall in preparation for a future project that will install two 2-million gallon pre-stressed concrete storage tanks (Phase 2). This Phase 1 project will also perform site grading and drainage improvements.
  - Project Budget: \$7,734,575
  - Monthly Activities: The project was winterized and temporarily suspended by January 31, and will restart August 1, 2024. Access is permitted on Concrete Pipe Road and Taylor Trail through the duration of the suspension period.
  
- b. Spillway Condition Assessment Phase II (CN2006): This project is considered Phase II of a multi-phase project that will investigate the concrete spillways at Peters Dam (Kent Lake), Seeger Dam (Nicasio Reservoir), and Soulajule Dam. Assessment work includes concrete coring, ground penetrating radar (GPR), video inspection and cleaning of sub-drains, and visual observation.
  - Project Budget: \$680,106
  - Monthly Activities: The project has been temporarily suspended due to the winter conditions and full reservoir levels. The project will resume this summer.

**6. Other:**

<u>Pipeline Installation</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Pipe installed during January (feet)	0	876
Total pipe installed this fiscal year (feet)	1,439	6,937
Total miles of pipeline within the District	908*	908*
<i>* Reflects adjustment for abandoned pipelines</i>		
<u>Pipe Locates (1,328 Responses)</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of January (feet)	29,762	17,539
Total this fiscal year (feet)	212,180	160,440
<u>Main Line Leaks Repaired:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of January	7	12
Total this fiscal year (7/1/23-1/31/24)	76	116
<u>Services:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Service upgrades during January	0	13
Total service upgrades this FY	94	102
Service connections installed during January	0	1
Total active services as of February 1st, 2024	60,555	60,522
(Total Including firelines)	61,936	61,897





## 7. Demand Management:

	Jan-24	FY 23/24 TOTAL	FY 22/23 TOTAL	FY 21/22 TOTAL
<b>WATER-EFFICIENCY PROGRAMS</b>				
<b>Water-Use Site Surveys</b>				
<b>Conservation Assistance Program (CAP) Consultations</b>				
Residential properties resi 1-2 (single-family)	29	211	291	731
Residential properties resi 3-5 (multi-family units)	0	4	3	7
Non-residential properties resi 6-7 (commercial)	0	0	3	1
Dedicated irrigation accounts resi 8-10 (large landscape)	0	0	0	3
<b>Marin Master Gardeners' Marin-Friendly Garden Walks</b>				
Residential garden walks	2	112	72	100
<b>Public Outreach and Education, Customer Service</b>				
Public outreach events (number of people attending)	0	1022	1775	1602
Public education events (number of participants)	0	0	328	536
Customer calls/emails admin staff	195	2333	4150	9508
Outreach to new Marin Water customers (letters sent)	220	1189	0	0
<b>School Education</b>				
<b>School assemblies</b>				
Number of activities	0	10	0	0
Number of students reached	0	11500	0	0
<b>Field trips</b>				
Number of activities	0	6	15	0
Number of students reached	0	117	307	0
<b>Classroom presentations</b>				
Number of activities	2	6	17	0
Number of students reached	50	201	531	0
<b>Other (e.g. booth events, school gardens)</b>				
Number of activities	0	0	1	0
Number of students reached	0	0	480	0
<b>Incentives</b>				
Number of HECWs approved	0	54	103	190
Number of Rain Barrel/Cisterns approved	1	6	15	76
"Cash for Grass" Turf Replacements approved	6	43	116	402
Number of Laundry-to-Landscape Systems (kits) approved	0	0	7	27
Hot water recirculating system rebates	0	3	30	122
Pool Cover rebates	0	16	27	298
HET rebates	1	7	22	92
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	56	329	271	1568
Number of Smart Controllers rebates approved	2	26	35	69
Number of Smart Controllers "RainBird compatible w/Flume" approved	73	73	0	0
Number of Smart Controllers "Rachio Direct Distribution" approved	11	131	77	178
<b>Advanced Metering Infrastructure (AMI)</b>				
AMI leak letters sent to customers (>200 GPD)	78	848	1168	1050
<b>ORDINANCES</b>				
<b>Water Waste Prevention</b>				
Water Waste Reports Received	4	115	392	4451
Water Waste Notifications Sent	2	27	81	0
<b>Landscape Plan Review</b>				
Plans submitted	9	65	88	77
Plans exempt	1	15	5	1
Plans completed	3	24	20	17
Plans in workflow (pass & fail)	16	113	145	123
<b>Tier 4 Exemption</b>				
Inspections that resulted in a pass	0	2	1	1
<b>Graywater Compliance Form</b>				
Applications Received (as of Dec 2019)	4	73	123	57
Systems installed	1	16	23	13

## 8. Watershed Protection:

### Watershed Rescue on Cataract Trail

With the recent rains recharging the waterfalls, visitation on Cataract Trail has increased. With this in mind, the Rangers have increased foot patrols of the trail. These increased patrols paid off on January 21st when a 79-year-old hiker slipped, hit his head and lost consciousness as he landed in a small creek just below the trail. Another hiker on the trail found him unconscious, partially submerged face down in the creek. The assisting hikers got him out of the water and up to the trail. A Ranger was already in the area and was the first rescuer on-scene with the patient. The Ranger treated and stabilized the patient and directed the other first responders to the location. First responders, including the Ranger, did a carryout and the patient was taken to the hospital by ambulance.



The Cataract Trail rescue on January 21<sup>st</sup>

### Foot and Bike Patrols in January

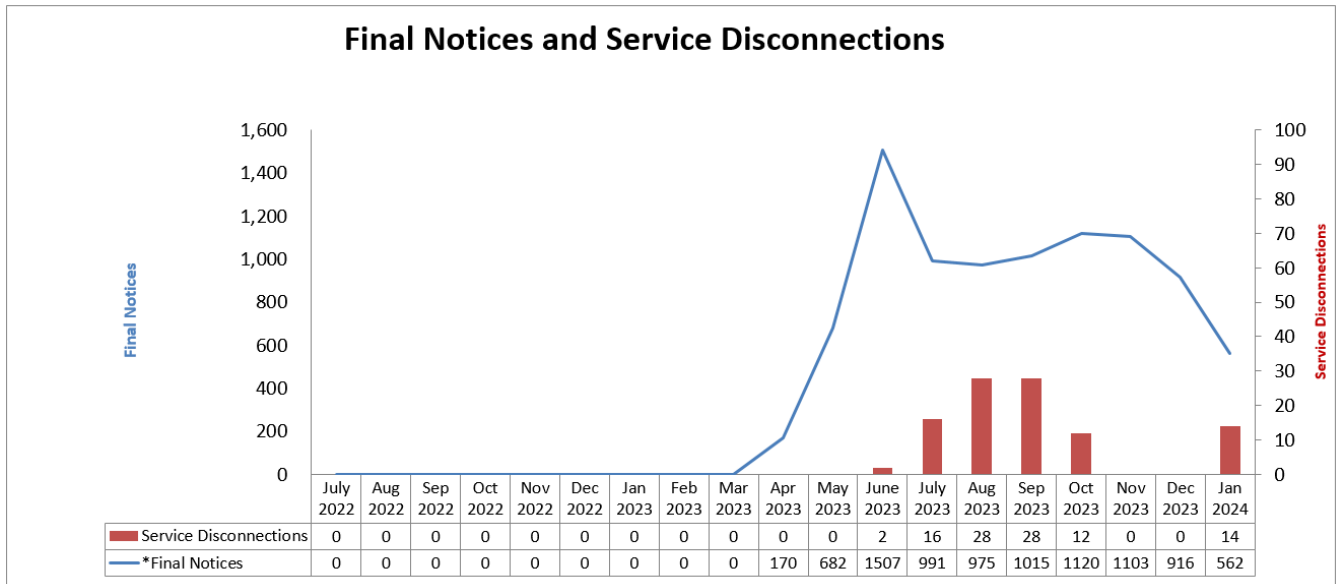
During January, the Rangers completed 165 miles of foot and bike patrols. These patrols are increasing the effectiveness of the Ranger program and providing better protection and support services for the watershed and its many visitors.

Incidents and Events	611
Visitor Assists	154
Warnings	114
Assist Watershed Maintenance	96
Dam Check	87
Citations	69
Fish and Game Contact	37
Misc Law Enforcement Calls	17
Preventative Search and Rescue	7
Suspicious Circumstance	5
Vandalism	4
Assist Other Agency	4
Citizen Complaint: Illegal Bike Use	3
Medical Aid	2
Ranger Callout	2
Citizen Complaint: Off Leash Dogs	2
Search and Rescue	1
Landslide Alarm	1
Illegal Fire	1
Theft	1
Illegal Dumping	1
Resist Peace Officer	1
Citizen Complaint: Misc	1

Citations	69
Non-Payment of Parking Fees	54
Obstruct Traffic/Parking within 6' of Center	7
Parking After Sunset	4
Bike on Trail	3
No Parking	1



**9. Shutoff Notices and Disconnections:**



**ENVIRONMENTAL REVIEW:** None.

**FISCAL IMPACT:** None.

**ATTACHMENT(S):** None.

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	<hr style="border: 0; border-top: 1px solid black; width: 100%;"/>	<hr style="border: 0; border-top: 1px solid black; width: 100%;"/>
	<b>Ben Horenstein</b> General Manager	<b>Ben Horenstein</b> General Manager