



STAFF REPORT

Meeting Type: Board of Directors
Title: General Manager's Report March 2025
From: Ben Horenstein, General Manager
Meeting Date: April 15, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of March 2025 was 14.3 MGD compared to 13.8 MGD for the month of March 2024. Typical usage for March is 18.1 MGD.
- Staff conducted outreach meetings with regulatory agencies, Lagunitas TAC and Nicasio Landowners Association for early engagement in support of the Nicasio Spillway Modifications Project.
- In support of the Districts effort to include electric vehicles in the fleet, staff issued a request for proposals to start the electrical vehicle charging station project that has been identified in the 2-year capital program. This will include performing an electrical load study at Sky Oaks, Corporation Yard and Administration building to determine existing electrical load capacities and additional electrical loads needed to accommodate full EV charging station buildout. This will allow the District to further reduce its carbon footprint into the future.
- Staff received proposals for the San Geronimo Treatment Plant Clearwell structural and condition assessment evaluation. This will provide a detailed look at structural repairs that need to be made to the clearwells to extend the useful life and to determine the structural capacity to install solar panels to help offset electrical use by approximately 10% at the SGTP. This will allow the District to further reduce its carbon footprint and providing a higher degree of energy independence.
- Staff responded to 979 underground service alert tickets and marked out approximately 26,755 feet of pipe in the month of March, helping to ensure that District underground infrastructure is not damaged by contractors or homeowners during excavation work.
- Staff replaced an eight inch gate valve at Federal Works Pump Station in Corte Madera. The original valve located on the discharge side of pump number two, leaked water through when in the closed position preventing the Mechanical and Electrical department from performing

maintenance on the pump. The new valve will ensure a tight seal and allow for pump maintenance to be performed in the future.

- Visited East Bay Municipal Utility District (EBMUD). Staff toured their apprenticeship program and got to see the training that is involved. This visit showed how another utility company prepares and trains their new employees.
- The District continued with Year 6 of the BFFIP plan through March 2025. March vegetation work focused on Broom removal primarily in the Phoenix Lake watershed. Broom work is split roughly 50/50 between maintenance of existing management units, and new or initial broom treatments.
- Pile burning work continued at West Peak. Across 8 days of pile burning the District burned approximately 560 piles. The District continues to work with Forster & Kroeger, Bay Area Tree Specialists, Conservation Corps North Bay, and others to complete Cal-Fire and Wildlife Conservation Board grant funded projects across multiple locations on the Watershed.
- Staff attended the 'Prescribed Fire Convening' at the Jasper Ridge Preserve hosted by Stanford University. Presentations mostly covered the effects of forestry pile burning treatments on soil, air, water and biological resources.
- Trail Stewardship event on March 1st engaged 6 volunteers on the south side of the mountain to cut back vegetation along Hoo Koo E Koo Trail.
- Turtle Observer training on March 1st brought together 37 volunteers over zoom and to Lake Lagunitas. On March 31 we led an additional online training for 8 College of Marin students. Watershed Stewards Program (WSP) AmeriCorps co-manages this community science program.
- Frog Docent training on March 8th brought together 20 volunteers over zoom and a hike to Little Carson Falls.
- Bald Hill Broom Bust on March 15th is an annual event held in partnership with Marin County Parks. 26 volunteers pulled mostly mature broom which extended the fuel break on the top of the ridge by 50 feet. Ranger chili and a nature hike offered upon conclusion!
- WSP led a habitat restoration event on Corte Madera Creek on March 16th with 28 volunteers to remove invasive, sheet mulch and plant native wetland plants.
- Trout in the Classroom kicks off the last week of March, 1100 students are scheduled to visit the stream flowing into Bon Tempe Reservoir over two weeks.
- Annual salmon surveys wrapped up for the year, with record high numbers of both Coho and Chinook Salmon in the Lagunitas Creek watershed. Fisheries staff installed the Lagunitas Creek smolt trap near Point Reyes Station and began daily operation, which will continue through early June.

MARIN WATER GRANT STATUS

PROJECT DETAILS						REQUIREMENTS		BUDGET	
OPPORTUNITY	FUNDER	FUNDER PRIORITIES	AGREEMENT APPLICATION DATE	MATCHING PROJECT	DESCRIPTION	STATUS	PREREQUISITE	FUNDS REQUESTED	MATCH REQUIREMENT %
CURRENT GRANTS									
Prop.1, Round 2 IRWM Disadvantaged Community Forestry Corps	DWR CCNB	Water Infrastructure Vegetation Management	12/1/22 Jan 2023	Marin City/San Rafael Infrastructure Ongoing Forestry work	Replacing aging transmission lines and laterals in Marin City and San Rafael's Canal District Workforce development, state funding directly to CCNB to fund crews working on the watershed	Funded Funded	IRWM CC Approval Corps Partnership	\$6,500,000 \$500,000	0 0
Fisheries Restoration Grant Program	CDFW	Fisheries	4/20/23	Lagunitas Creek Restoration	Funding for Phase II site design and CEQA	Funded	30% designs	\$600,000	50%
Lagunitas Creek Salmonid Spawning Gnevel Improvement Project	DWR Riverline	Fisheries	11/1/22	Lagunitas Creek Restoration	Gnevel augumentation for Lagunitas Creek	Funded	None	\$590,000	0
Lagunitas Creek Salmonid Spawning Gnevel Improvement Project	USBR Environmental Restoration Project	Fisheries	8/17/23	Lagunitas Creek Restoration	Gnevel augumentation for Lagunitas Creek Sites 1-3	Funded	CEQA	\$1,400,000	39.39%
Rain Water Harvesting Project	MCSTOPP	Conservation	Unknown	Conservation	Barrels for customers	Funded	None	\$15,032	0
Urban Multi-Benefit Drought Relief	DWR	Water Resources	3/19/22	SWSA	Strategic Water Supply	Funded	None	\$2,000,000	0
Water Conservation	USBR WEEG	Conservation		Conservation		Funded		\$722,925	
Water Conservation	DWR IRWMP	Conservation		Conservation		Funded		\$222,477	
Prop 1, Fisheries Restoration	CDFW	Fisheries	7/1/23	Lagunitas Creek Restoration	Lagunitas Creek Restoration Sites 1-6	Funded	60% designs	\$4,600,000	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	\$86,800	0
Azaalee Hill Trail Restoration	State Parks	Trail Restoration	2/1/20	Watershed	Azaalee Hill Restoration	Funded	None	\$952,657	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implementation for 2-3 years	Funded	CEQA	\$2,800,000	0
WaterSMART Applied Science	USBR	Water Resource	10/15/2023	Advanced Weather Modeling	Funding for weather modeling to inform water resources management	Funded	TBD	\$150,628.00	50%
One Tam Forest Health Phase II	Cal Fire	Forestry Restoration	1/15/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	Notice of Award	CEQA	\$3,000,000	TBD
TOTAL FUNDED:								\$24,140,519	
Desal Feasibility Study	USBR	Desalination	2/28/23	Desalination	Exploring new brackish desal in Petaluma	Open	None	\$200,000	50
Hazard Mitigation Program	CalOES/ FEMA	Natural Hazards	Aug-24	Treatment Plant Clarifiers	Funds to address seismic hazards in water treatment facilities	Open	NOI APPROVAL	\$22,000,000.00	25%
WaterSmart Energy Efficiency	USBR	Conservation	2/22/2024	AMI	Funding to expend AMI	Open	Environmental Compliance	\$1,000,000	50%
WaterSMART Planning & Design	USBR	Water Supply	5/20/2024	Water Supply Planning	Water Supply - Nicasio Spillway	Open	TBD	\$400,000.00	
Environmental Resources Grant	USBR	Forest Health	6/24/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	Open	TBD	\$3,000,000.00	
CDFW Environmental Enhancement Fund	CDFW	Fisheries	9/11/2024	Lagunitas Creek Restoration	Phase II	Not Funded	TBD	\$3,457,044.00	0%
USBR Drought Resiliency Program	USBR	Water Supply	10/7/2024	Water Supply Planning	Water Supply - Nicasio Spillway	Open	TBD	\$3,000,000.00	50%
Dam Safety & Climate Resilience Local Assistance	DWR	Infrastructure	10/21/24	Phoenix and Lagunitas Valves & Actuator Replacement	Dam Safety	Open	TBD	\$2,000,000.00	50%
TOTAL OPEN:								\$29,600,000	
USBR WaterSmart & Energy Efficiency (WEEG)	USBR	Conservation	11/13/2024	AMI Expansion	AMI Expansion	Open	TBD	\$3,500,000.00	50%
LONG TERM OPPORTUNITIES (ongoing development)									
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	
United States Department of Fish and Wildlife	USFWS	Water Supply	Unknown	Phoenix Lake	Habitat Conservation Planning	TBD	Habitat Conservation PI	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 2024/25		FY 2023/24	
	(million gallons)	(acre-feet)	(million gallons)	(acre-feet)
Potable				
Total production this FY	5,314	16,309	5,176	15,885
Monthly production, March	444	1,363	428	1,313
Daily average, March	14.33	43.96	13.80	42.34
Recycled				
Total production this FY	185.89	570.46	179.32	550.33
Monthly production, March	9.70	29.77	7.22	22.16
Daily average, March	0.31	0.96	0.23	0.71
Raw Water				
Total production this FY	61.56	188.92	43.84	134.54
Monthly production, March	0.00	0.00	5.00	15.34
Daily average, March	0.00	0.00	0.16	0.49
Imported Water				
Total imported this FY	1,451	4,453	1,707	5,239
Monthly imported, March	8	25	5	15
Reservoir Storage				
Total storage, March	25,925	79,560	25,927	79,566
Storage change during March	5	14	0	0
Stream Releases				
Total releases this FY	2,215	6,799	2,150	6,599
Monthly releases, March	209	643	74	228

2. <u>Precipitation:</u>	<u>FY 2024/25 (in.)</u>	<u>FY 2023/24 (in.)</u>
ALPINE	49.21	46.59
BON TEMPE	46.31	40.94
KENT	53.41	48.19
LAGUNITAS	49.80	48.73
NICASIO	36.47	33.28
PHOENIX	51.52	46.96
SOULAJULE	39.71	32.19
Average to date =46.66 inches		

3. Water Quality:

<u>Laboratory</u>	<u>FY 2024/25</u>	<u>FY 2023/24</u>
Water Quality Complaints:		
Month of Record	8	3
Fiscal Year to Date	159	61
Water Quality Information Phone Calls:		
Month of Record	12	4
Fiscal Year to Date	105	43

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,670 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 2.01 (1.13 – 3.2) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: One flushing event was performed at 150 Calumet Ave. in San Anselmo to ensure water quality for this month on record.

Disinfection Program: 6,553' of new pipelines were disinfected during the month of March. Performed chlorination on 8 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 42 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 analyzed 1,670 treatment plant and distribution water samples, and the water quality department treated 8 tanks for low chlorine and checked an additional 42 tanks for low chlorine residual in March 2025.

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)	0.06	≤ 0.10	0.04	≤ 0.10	0.06	≤ 0.10
Chlorine residual (mg/Lv)	2.76	2.75 *	2.73	2.75 *	2.87	2.75 *
Color (units)	0.5	≤ 15	0.4	≤ 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:

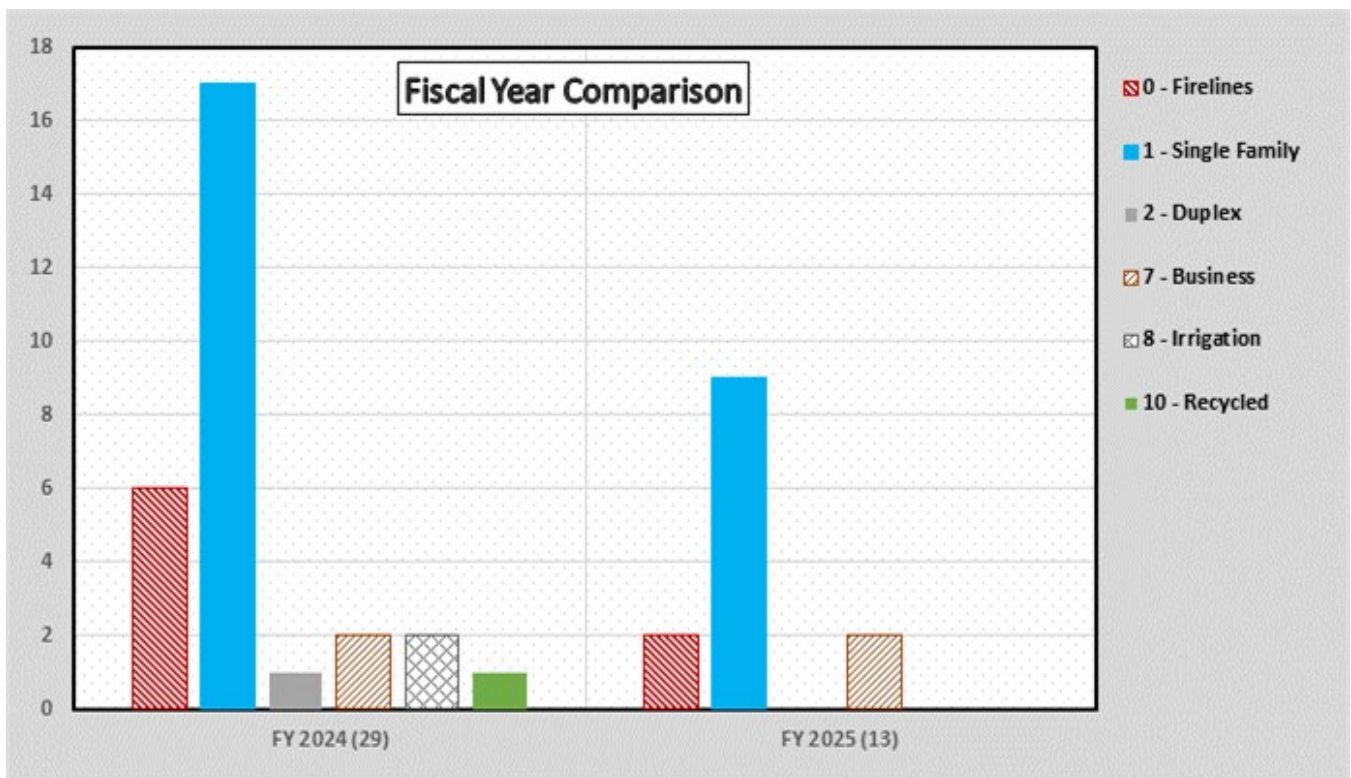
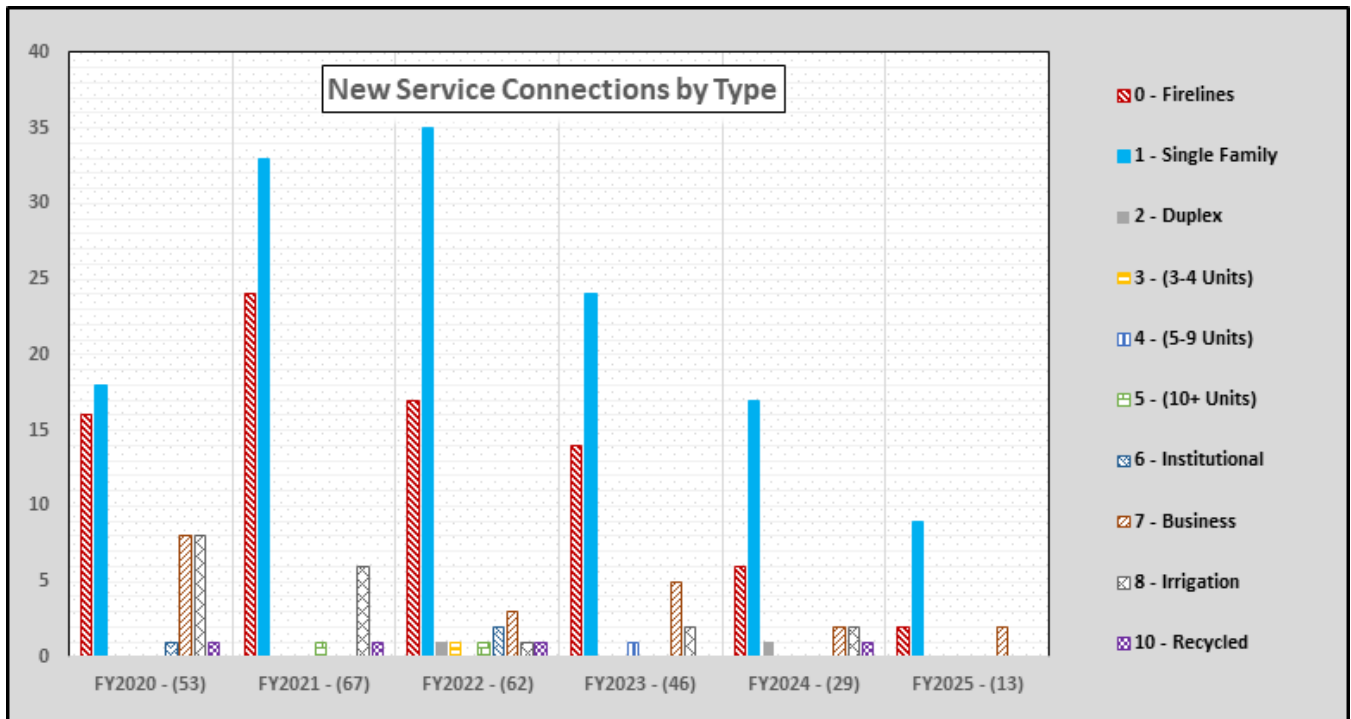
- a. Pine Mountain Tank Phase 2 – New Water Tanks Project (D21043): The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. The current project (Phase 2) will construct two 90-foot inside diameter pre-stressed concrete potable water storage tanks, will install yard piping and control systems, and will then complete final site grading.
 - Project Budget: \$19,142,500
 - Monthly Activities: The District's team is reviewing submittals and communicating with the Contractor on those in advance of start of construction August 1, 2025.

- b. Wolfback Ridge Tanks Rehabilitation Project (D20009): This project will replace the roof and recoat both the interior and exterior of each tank at Wolfback Ridge in Sausalito.
- Project Budget: \$950,000
 - Monthly Activities: The Contractor completed removal of containment on the first tank and it has since been refilled, now awaiting test results to put back into service. Project estimated completion is April 2025.
- c. Granada Drive Pipeline Replacement Project (D23020): This project will install approximately 10,230 linear feet of welded steel pipe to replace old, leak-prone, and seismic-deficient piping in the Town of Corte Madera. The District coordinated with the Town to incorporate the Town's road reconstruction work into the District's project to minimize construction impacts to the community.
- Project Budget: \$5,564,384
 - Monthly Activities: The project has reached substantial completion with the exception of final roadway paving, which will be performed pending acceptable weather conditions. Paving is anticipated to be performed in April 2025.
- d. Tiburon Pipeline Replacement Project (D23018): The 2024 Tiburon Pipeline Replacement Project is a component of the District's Capital Improvement Program and Fire flow Improvement Program. The project includes the installation of approximately 3,490 linear feet of 8-inch, 6-inch, and 4-inch welded steel potable water pipe with valves, fittings, laterals, and appurtenances in the Town of Tiburon. This project replaces 102 year old, leak-prone, cast iron pipe with new reliable, seismically resilient welded steel pipe.
- Project Budget: \$3,112,285
 - Monthly Activities: The project has been fully completed in the field and the closeout punch list process is underway. Looking to be complete in April 2025.
- e. Rock Ridge Pipeline Replacement Project (F22001): The Rock Ridge Pipeline Replacement Project (Project) is a component of the Fire Flow Improvement Program. This Project will install approximately 7,590 feet of new 8" and 6" welded steel and polyvinyl chlorine (PVC) pipe to replace the old, leak prone fire flow deficient piping installed as early as 1934.
- Project Budget: \$3,928,105
 - Monthly Activities: The Contractor has completed approximately 7,100 linear feet of pipe installation and is finishing tie-ins on Oak Manor Drive. Contractor will begin installing mainline pipe on Scenic Dr in Fairfax. The project is expected to be completed May 2025.
- f. Marin City Phase I Pipeline Replacement Project (GC25005): The Marin City Phase I Pipeline Replacement Project is a component of the District's Capital Improvement Program. This Project will install approximately 9,200 linear feet of 8, 6 and 4-inch welded steel pipe to replace the old, leak prone, seismic deficient pipe installed as early as 1959.
- Project Budget: \$4,069,592.20
 - Monthly Activities: The Contractor is completing mainline pipe installation and should be completed with all mainline in April. To date, the Contractor has installed approximately 5,400 linear feet of 8-inch welded steel pipe and 3,600 linear feet of 6-

inch welded steel pipe to date. The project is expected to be completed ahead of the October 2025 completion date.

6. Other:

<u>Pipeline Installation</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Pipe installed during March (feet)	5,202	0
Total pipe installed this fiscal year (feet)	26,901	1,439
Total miles of pipeline within the District	908*	908*
<i>* Reflects adjustment for abandoned pipelines</i>		
<u>Pipe Locates (979 Responses)</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Month of March (feet)	26,755	29,566
Total this fiscal year (feet)	323,030	255,990
<u>Main Line Leaks Repaired:</u>	<u>FY2024/25</u>	
<u>FY2023/24</u>		
Month of March	10	10
Total this fiscal year (7/1/24-5/31/25)	113	97
<u>Services:</u>	<u>FY2024/25</u>	<u>FY2023/24</u>
Service upgrades during March	11	9
Total service upgrades this FY	139	137
Service connections installed during March	3	3
Total active services as of March 31st, 2025	60,585	60,578
(Total Including firelines)	61,972	61,961



7. Recruitments and Hires

The District is currently recruiting for the following positions:

1. Associate Engineer (2 Positions)
2. Mechanical and Electrical Worker III/IV
3. Watershed Aide

The District recently hired new employees for the following positions:

1. Principal Grants and Legislative Analyst

8. Demand Management:

	Mar-25	FY 24/25 TOTAL	FY 23/24 TOTAL	FY 22/23 TOTAL
WATER-EFFICIENCY PROGRAMS				
Water-Use Site Surveys				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	76	496	404	291
Residential properties resi 3-5 (multi-family units)	1	8	6	3
Non-residential properties resi 6-7 (commercial)	0	0	0	3
Dedicated irrigation accounts resi 8-10 (large landscape)	3	7	0	0
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	10	87	173	72
Public Outreach, Education, Customer Service				
Public outreach events (number of people attending)	1	3501	7022	17775
Public education events (number of participants)	40	265	425	328
Department customer calls/emails	352	4817	4485	4150
Outreach to new Marin Water customers (letters sent)	182	1134	1908	0
School Education				
School assemblies				
Number of activities	3	9	19	0
Number of students reached	1183	3744	21850	0
Field trips				
Number of activities	4	14	16	15
Number of students reached	86	290	343	307
Classroom presentations				
Number of activities	2	9	14	17
Number of students reached	84	276	457	531
Other (e.g. Earth Day booth events, school gardens)				
Number of activities	0	0	3	1
Number of students reached	0	0	400	480
Incentives				
Number of HECWs approved	0	2	98	103
Rain Barrel/Cisterns approved	1	14	9	15
Rain Barrel/Cisterns gallons	275	5560	0	0
Rain Barrel Give-a-way (Gallons)	2100	24760	4840	0
"Cash for Grass" Lawn Replacements approved	9	55	61	116
"Cash for Grass" (Best Practices) square ft. lawn replaced	0	3362	0	0
"Cash for Grass" (Standard) square ft. lawn replaced	6453	59521	0	0
Number of Laundry-to-Landscape Systems (kits) approved	0	0	1	7
Hot water recirculating system rebates	0	3	11	30
Pool Cover rebates	1	22	35	27
HET rebates	0	4	17	22
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	24	404	544	271
Number of Smart Controllers MW rebates approved	1	21	49	35
Number of Smart Controllers "RainBird compatible w/Flume" approved	1	44	131	0
Number of Smart Controllers "Rachio Direct Distribution" approved	1	114	219	77
Advanced Metering Infrastructure (AMI)				
AMI leak letters sent to customers (>200 GPD)	84	965	1330	1168
ORDINANCES				
Water Waste Prevention				
Water Waste Reports Received	3	130	224	392
Water Waste Notifications Sent	0	25	49	81
Landscape Plan Review				
Plans submitted	8	61	117	88
Plans exempt	1	7	23	5
Plans completed	1	16	30	20
Plans in workflow (pass & fail)	15	99	172	145
Tier 4 Exemption				
Inspections that resulted in a pass	0	1	2	1

9. Watershed Protection:

Ranger Hosts “Newts and Roots” Nature Hike

On Sunday, March 2nd, Marin Water Ranger John McConneloug led a guided, family-friendly hike around Lake Lagunitas, exploring the plants and animals of the Mt. Tam Watershed. Over 15 families attended this event.



This is the 3rd in a series of Ranger-led events. Saturday, November 30th, Senior Ranger Matt Cerkel led a hike to the site of a Navy airplane that crashed during World War 2. On Sunday, December 8th, Senior Ranger Phil Johnson led a “Bird Walk” around Lake Lagunitas. In January, Ranger Mike Faus hosted a “Fishing with a Ranger” event. On Thursday, April 10th, Ranger Faus will host a second “Fishing with a Ranger” event.

Medical Aid Calls

Rangers responded to five medical aid calls on the watershed. Four hikers with ankle, knee, or head injuries were involved, and three were transported to the hospital. The fifth was a mountain biker with a knee injury. First aid was provided.

Lost Hikers

There were two lost hiker incidents involving hikers taking wrong turns. Two hikers and their dogs hiked to Carson Falls. After hours and in the dark, the hikers ended up 4 miles away from their destination. The standby ranger responded and retrieved the cold and tired hikers.

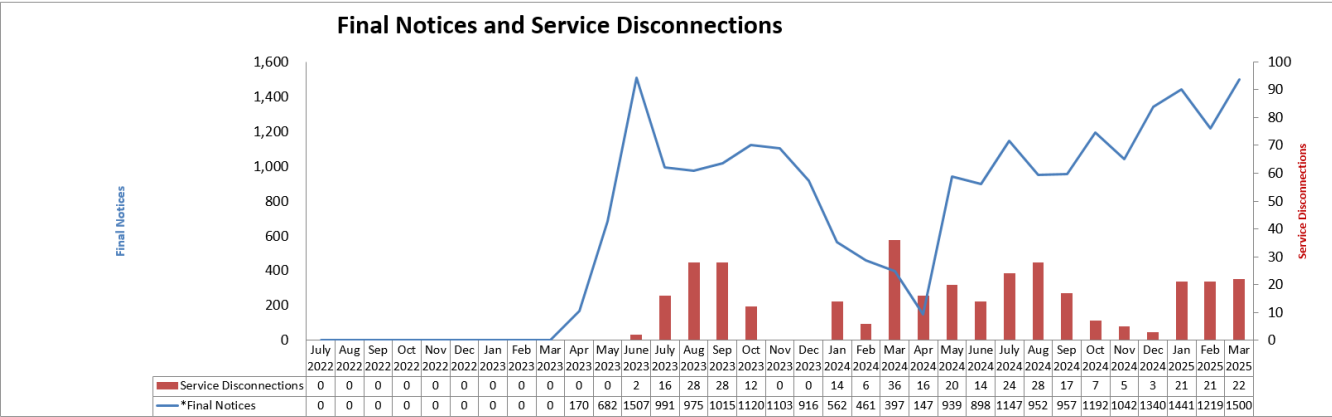
Incidents and Events	834
Visitor Assists	302
Warnings	184
Citations	97
Dam Checks	85
Assist Maintenance	59
Fish and Game checks	27
Misc. Law Enforcement Calls	18
Vandalism	17
Illegal Trail Work	9
Preventive Search and Rescue	7
Fire Service	6
Medical Aid	5
Illegal Dumping	3
Disturbance/Dispute	3
Search and Rescue	2
Misc. Calls for service	2
Humane/Animal Call	1
Suspicious Circumstance	1
Outreach and Interpretation	1
Citizen Complaint Illegal Bike Use	1
Citizen Complaint: Vehicle Speed	1
Assist Fire/EMS	1
Found Property	1
Assist Other MMWD Work Group	1

Citations Issued	97
Nonpayment of Parking Fees	76
Obstructing Traffic/6 ft of Center	19
Parking After Sunset	2

Type of Patrol	
Foot	85
Bike	85


10. Shutoff Notices and Disconnections:

*Final Notices
Service Disconnections
* Includes 10 day and final notices



FISCAL IMPACT: None.

ATTACHMENT(S): None.

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	<div>_____</div> <div>Ben Horenstein General Manager</div>	<div></div> <div>Ben Horenstein General Manager</div>