



# STAFF REPORT

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**Meeting Type:** Board of Directors  
**Title:** General Manager's Report June 2024  
**From:** Ben Horenstein, General Manager  
**Meeting Date:** July 16, 2024

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**TYPE OF ACTION:**    X    Action                      Information                      Review and Refer

**RECOMMENDATION:** Approve Report

**SUMMARY:**

**A. HIGHLIGHTS:**

- The daily average net production for the month of June 2024 was 22.9 MGD compared to 22.9 MGD for the month of June 2023. Typical usage for June is 30.2 MGD.
- Staff presented the spillway modifications project at the June Operations Committee meeting. This project will evaluate Nicasio, Soulajule, Kent and Alpine dam spillways for modification options that will help increase the Districts storage capacity. The initial focus of the project will be to move the Nicasio Spillway raise into design and through environmental review. The contract was awarded at the July 2nd, 2024 Board of Directors Meeting.
- Staff executed a construction contract with Corcus Construction Inc. for the 2024 Tiburon Pipeline Replacement Project that will replace approximately 3,500 feet of leak prone, seismically deficient pipe installed as early as 1922 with new welded steel pipe. Replacing this pipe will improve the Districts overall seismic reliability and ensure we have a leak free water system within this community.
- Staff awarded the 2024 Anode Replacement Project to Exaro Technologies to install approximately 60 new anodes throughout the Districts water main system. The new anodes will ensure that the water main system continues to have proper cathodic protection, ensuring the District maximizes the life of its water main system and saves rate payer money on premature water main replacements.
- Staff responded to 958 underground service alert tickets and marked out approximately 22,432 feet of pipe, ensuring that the water infrastructure is not damaged by contractors or homeowners during excavations.
- During preventative maintenance inspections staff found Del Mesa pump to have excessive vibration. The pump was taken out of service to replace the motor bearings. The pump was

retested to optimal conditions without excessive vibrations. This type of preventative maintenance fixes small problems before they become large saving labor and expense and ensures reliable water delivery.

- The District finalized a contract with Hanford ARC for Phase 1A of the Lagunitas Creek Habitat Enhancement Project and expects to begin construction on August 1.
- The District's consultant, ESA, began Phase 2 design work under a grant from CDFW.
- Fisheries completed its annual spring salmonid smolt trapping program, with preliminary results showing a record high number of coho salmon for this year class.
- The District completed implementation of Year 5 of the Biodiversity Fire, & Fuels Integrated Plan on June 30th 2024. Veg work in June focused on fine fuel reduction work around Watershed parking lots and heavily used roads. Other veg projects included routine Fuelbreak Maintenance at Keys Creek, and some Forest Maintenance where contractors closed multiple social trails.
- In an effort to continue improvements to the District's Work Place Safety Program staff working in collaboration with a Safety Consultant conducted an internal review of work sites and safety practices. The District's Safety Committee working in collaboration with the Safety Manager will begin to review and prioritize safety program refinements.

## 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>\$42,173,326</b>	
Desal Feasibility Study	USBR	Desalination	2/28/23	Desalination	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	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 1-8	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	\$86,800	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implementation for 2-3 years	Funded	CEQA	\$6,000,000	0
WaterSMART Applied Science	USBR	Fisheries	10/15/2023	Advanced Weather Modeling	Funding for weather modeling to inform water resources management	Funded	TBD	\$150,628.00	50%
Hazard Mitigation Program	FEMA	Natural Hazards	Jan-23	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 expand AMI	Open	Environmental Compliance	\$1,000,000	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	TBD	TBD
<b>UPCOMING OPPORTUNITIES</b>								<b>\$0</b>	
Hazard Mitigation Program	FEMA	Natural Hazards	Jan-23	Treatment Plant Clarifiers	Funds to address seismic hazards in water treatment facilities	TBD	NOI APPROVAL	TBD	25%
WaterSMART Planning & Design	USBR	Water Supply	5/20/2024	Water Supply Planning	Funding for advancing implementation of Strategic Water Supply Projects	Open	TBD	TBD	
Environmental Resources Grant	USBR	Forest Health	6/24/2024	BFFIP Implementation	BFFIP Implementation for 2-3 years	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-foot)
<b>Potable</b>				
Total production this FY	7,031	21,578	6,755	20,729
Monthly production, June	738	2,263	670	2,057
Daily average, June	24.59	75.45	22.34	68.56
<b>Recycled</b>				
Total production this FY	433.21	1329.49	189.97	680.74
Monthly production, June	216.61	664.75	21.03	97.74
Daily average, June	7.22	22.16	0.68	3.26
<b>Raw Water</b>				
Total production this FY	42.76	131.23	57.32	175.91
Monthly production, June	0.00	0.00	10.30	31.61
Daily average, June	0.00	0.00	0.34	1.05
<b>Imported Water</b>				
Total imported this FY	1,905	5,847	1,617	4,961
Monthly imported, June	151	463	395	1,211
<b>Reservoir Storage</b>				
Total storage	24,226	74,348	24,923	76,485
Storage change during June	-1,016	-3,119	-544	-1,668
<b>Stream Releases</b>				
Total releases this FY	2,735	8,394	3,323	10,198
Monthly releases, June	234	719	1,134	3,480

<b>2. <u>Precipitation:</u></b>	<u>FY 2023/24 (in.)</u>	<u>FY 2022/23 (in.)</u>
Alpine	47.49	49.20
Bon Tempe	41.72	44.37
Kent	49.04	44.78
Lagunitas *	50.46	49.55
Nicasio	34.09	28.98
Phoenix	47.71	49.70
Soulajule	32.70	33.12
* Average to date = 42.81 inches		

**3. Water Quality:**

<u>Laboratory:</u>	<u>FY 2023/24</u>	<u>FY 2022/23</u>
<b>Water Quality Complaints:</b>		
Month of Record	19	5
Fiscal Year to Date	110	148
<b>Water Quality Information Phone Calls</b>		
Month of Record	8	7
Fiscal Year to Date	80	94

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 1.75 (1.28 – 2.65) 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: 2,163' of new pipelines were disinfected during the month of June. Performed chlorination on 6 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 13 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 and distribution water samples, and the water quality department treated 6 tanks for low chlorine and checked an additional 13 tanks for low chlorine residual in June 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	0.03	≤ 0.10	0.03	≤ 0.10
Chlorine residual (mg/L)	2.83	2.75 *	2.76	2.75 *	2.85	2.75 *
Color (units)	0.5	≤ 15	0.2	≤ 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 on 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. Redwood Drive Pipeline Replacement Project (CN1989): This project is a component of the District’s Fire Flow Improvement Program and will install approximately 4,400 linear feet of 6-inch welded steel pipe to replace old, leak-prone, and fire flow deficient piping installed as early as 1913 in the unincorporated community of Woodacre.

- Project Budget: \$2,204,075.20
  - Monthly Activities: The Contractor installed water facilities along Redwood Drive, Taylor Avenue, Park Road, and Conifer Way. More than 4,100 linear feet of water main has been installed. Remaining contract work includes installing new water services on Redwood Drive at Buckeye Circle and miscellaneous hydrant installations. The project is anticipated to be complete in August.
- c. Wolfback Ridge Tanks Rehabilitation Project (CN2016): 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 project was awarded for construction at the February 13 Board of Directors meeting and the contract has been executed. Preliminary submittal work is underway and field work is expected to begin October.
- d. Sir Francis Drake Pipeline Replacement Project (CN1996): This project will install approximately 4,540 linear feet of welded steel pipe to replaced aged, leak-prone cast iron pipe installed as early as 1924 on Sir Francis Drake Boulevard between San Francisco Boulevard and Butterfield Road. Water pipelines will also be replaced on Broadmoor Avenue and Saunders Avenue, each for approximately 250 feet from Sir Francis Drake.
- Project Budget: \$3,799,400
  - Monthly Activities: Construction work on Sir Francis Drake begun shortly after the end of the school session on June 17. The Contractor is currently installing water mainline beginning at San Francisco Boulevard, and is working westerly towards Butterfield Road. The District is working closely with Marin Transit and the Town of San Anselmo to mitigate traffic impacts from construction work on Sir Francis Drake Boulevard.
- e. Granada Drive Pipeline Replacement Project (CN2007): 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 Contractor has installed more than 2,000 feet of water mainline along El Camino Drive, Estrada lane, and Paloma Drive and is performing water mainline and service installation in the Granada neighborhood.
- f. Lagunitas Creek Coho Habitat Enhancement Project – Phase 1A (CN2022): Phase 1A of the Lagunitas Creek Coho Habitat Enhancement Project will implement an extensive set of habitat enhancement structures in Lagunitas Creek within Samuel P. Taylor State Park. The work includes the installation of large woody debris, rock, and gravel structures in Lagunitas Creek in support of endangered Coho Salmon, threatened steelhead populations, and freshwater shrimp.
- Project Budget: \$3,958,000
  - Monthly Activities: The preliminary phases of construction including contractor submittals are underway, and field work is anticipated to begin later this summer. The construction project will utilize the Irving Picnic Area for construction equipment and

materials staging and will access the Lagunitas Creek restoration areas via the Cross Marin Trail. The Cross Marin Trail will remain open to recreation during construction and traffic control measures will be implemented to protect the public.

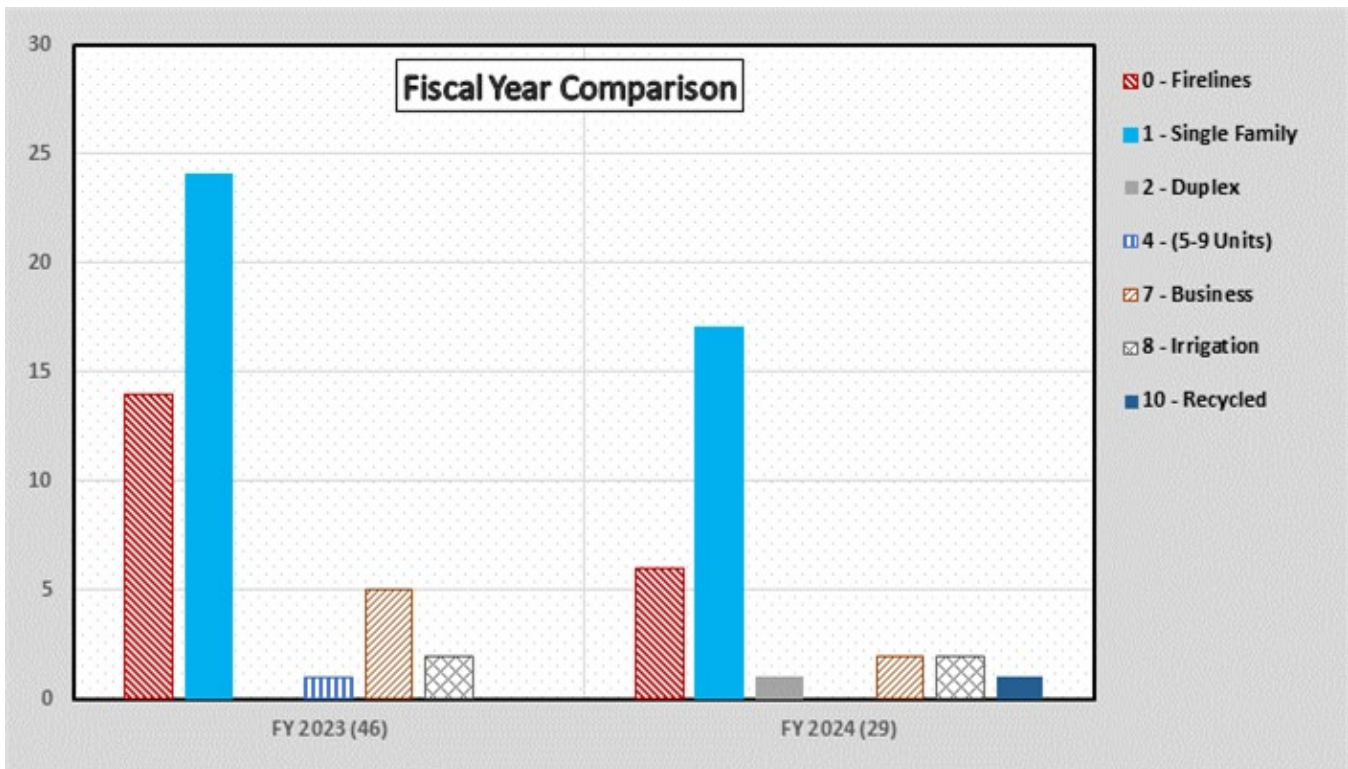
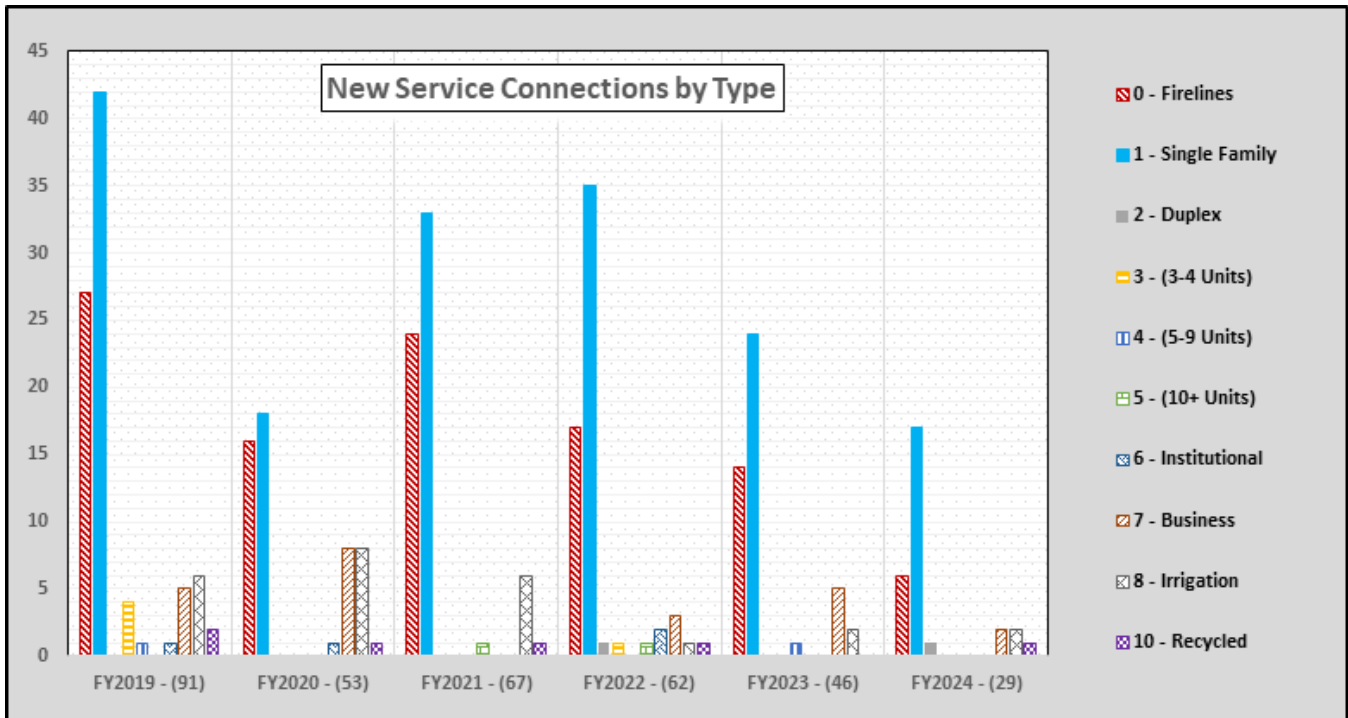
- g. Tiburon Pipeline Replacement Project (CN2014): The 2024 Tiburon Pipeline Replacement Project is a component of the District’s Capital Improvement Program and Fireflow Improvement Program. The project includes the installation of approximately 3,490 linear feet of 8-inch, 6-inch, and 4-inch welded 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 Contract was awarded at the June 18 Board of Directors Meeting and contract execution is underway. Work is anticipated to begin in July following a pre-construction meeting.
  
- h. 2024 Anode Replacement Project (CN2032): The 2024 Anode Replacement Contract is a component of the District’s Capital Improvement Program. The District has approximately 6,930 corrosion test stations throughout the distribution system, most of which utilize magnesium anodes to prevent corrosion damage to the pipelines. These magnesium anodes extend the useful life of the pipelines by preventing leaks and costly damage caused by corrosion. These anodes are sacrificial by nature and deplete over time, requiring replacement. This project is part of the District’s annual or bi-annual effort to routinely replace sacrificial magnesium anodes throughout the District’s service area.
  - Project Budget: \$115,250
  - Monthly Activities: The construction contract was awarded at the June 4 Board of Directors Meeting and contract execution is underway. The project is anticipated to be complete in September.

**6. Other:**

<u>Pipeline Installation</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Pipe installed during June (feet)	2,022	137
Total pipe installed this fiscal year (feet)	7,020	16,288
Total miles of pipeline within the District	908*	908*
<i>* Reflects adjustment for abandoned pipelines</i>		
 <u>Pipe Locates (958 Responses)</u>	 <u>FY2023/24</u>	 <u>FY2022/23</u>
Month of June (feet)	22,432	15,949
Total this fiscal year (feet)	344,987	253,459
 <u>Main Line Leaks Repaired:</u>	 <u>FY2023/24</u>	 <u>FY2022/23</u>
Month of June	5	2



Total this fiscal year (7/1/23-5/31/24)	119	168
<u>Services:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Service upgrades during June	17	18
Total service upgrades this FY	88	174
Service connections installed during June	0	1
Total active services as of June 1st, 2024	60,546	60,445
(Total Including firelines)	61,854	61,822



## **7. Recruitments and Hires**

The District is currently recruiting for the following positions:

- Engineering Technician-Development Services Supervisor
- Associate/Assistant Engineer
- Supervising Land Surveyor
- Engineering Technician - Facilities Designer I

The District recently hired a new employee for the following position:

- Water Quality Intern

## 8. Demand Management:

	Jun-24	FY 23/24 TOTAL	FY 22/23 TOTAL	FY 21/22 TOTAL
<b>WATER-EFFICIENCY PROGRAMS</b>				
<b>Water-Use Site Surveys</b>				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	43	398	291	731
Residential properties resi 3-5 (multi-family units)	0	5	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	10	151	72	100
<b>Public Outreach and Education, Customer Service</b>				
Public outreach events (number of people attending)	2	1924	17775	1602
Public education events (number of participants)	5,100	5475	328	536
Department customer calls/emails	605	4485	4150	9508
Outreach to new Marin Water customers (letters sent)	0	1908	0	0
<b>School Education</b>				
<b>School assemblies</b>				
Number of activities	0	20	0	0
Number of students reached	0	21850	0	0
<b>Field trips</b>				
Number of activities	0	15	15	0
Number of students reached	0	322	307	0
<b>Classroom presentations</b>				
Number of activities	0	14	17	0
Number of students reached	0	457	531	0
<b>Other (e.g. Earth Day booth events, school gardens)</b>				
Number of activities	0	3	1	0
Number of students reached	0	400	480	0
<b>Incentives</b>				
Number of HECWs approved	7	97	103	190
Number of Rain Barrel/Cisterns approved	0	9	15	76
"Cash for Grass" Turf Replacements approved	2	57	116	402
Number of Laundry-to-Landscape Systems (kits) approved	0	0	7	27
Hot water recirculating system rebates	1	8	30	122
Pool Cover rebates	5	35	27	298
HET rebates	5	17	22	92
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	14	527	271	1568
Number of Smart Controllers rebates approved	15	52	35	69
Number of Smart Controllers "RainBird compatible w/Flume" approved	7	122	0	0
Number of Smart Controllers "Rachio Direct Distribution" approved	33	236	77	178
<b>Advanced Metering Infrastructure (AMI)</b>				
AMI leak letters sent to customers (>200 GPD)	111	1330	1168	1050
<b>ORDINANCES</b>				
<b>Water Waste Prevention</b>				
Water Waste Reports Received	35	223	392	4451
Water Waste Notifications Sent	14	50	81	0
<b>Landscape Plan Review</b>				
Plans submitted	2	110	88	77
Plans exempt	0	23	5	1
Plans completed	0	29	20	17
Plans in workflow (pass & fail)	11	170	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	143	123	57
Systems installed	3	31	23	13

## 9. Watershed Protection:

### Wildland Fire Academy

Ranger Mike Krakauer, Ranger Trainee Dianne Dollente, Ranger Trainee Salvador Vasquez, and Watershed Maintenance Worker Nathan Momsen completed the Marin County Wildland Fire Academy and are now fully certified Wildland Firefighter Type 2s. Congratulations all!



Ranger Mike Krakauer and Marin County Fire Dept. Firefighters at the Marin County Wildland Fire Academy

### Multiple Medical Aid Calls on Cataract Trail

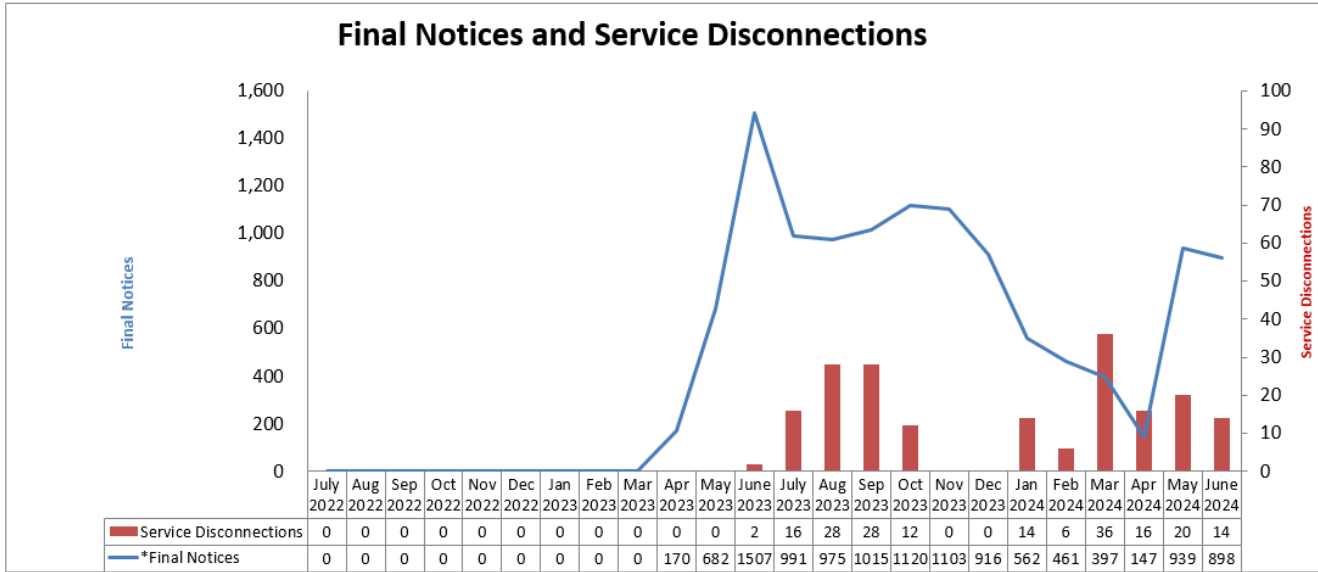
Rangers responded to multiple medical aid calls on Cataract Trail during June. The most notable one occurred on Saturday, June 15th. Fortunately, a Ranger was on the trail nearby when a hiker reported that a member of his group had just fallen 30 feet from the trail and into Cataract Creek. Rangers called in a medical response from the Marin County Fire Dept. The patient had suffered a head injury in the fall, and Ranger's provided patient care until CHP helicopter H30 performed a hoist rescue. The patient was flown to Alpine Dam and was transferred to an ambulance, transporting her to MarinHealth Medical Center.



Incidents and Events	795
Visitor Assists	248
Warnings	195
Dam Check	77
Assist Watershed Maintenance	62
Citations	52
Fish and Game Contact	52
Misc Law Enforcement Calls	33
Citizen Complaint: Illegal Bike Use	15
Vandalism	11
Citizen Complaint: Off Leash Dogs	9
Medical Aid	4
Assist Outside Agency	4
Search and Rescue	4
Theft	3
Illegal Fire	3
Misc. Call for Service	2
Humane/Animal Related	2
Citizen Complaint: Recreation Impacts	2
Assist Outside Law Enforcement	2
Citizen Complaint: Swimming	2
Citizen Complaint: Ebike use	2
Citizen Complaint: Bike Speed	2
Citizen Complaint: Boating	1
Preventative Search and Rescue	1
Suspicious Circumstance	1
Illegal Trail Work	1
Found Property	1
Lost Property	1
Public Outreach/Education	1
Assist Outside Agency	1
Assist Other MMWD Work Group	1
<b>Citations</b>	<b>52</b>
Non-Payment of Parking Fees	48
Vehicle Code Violation	1
Fishing without a License	1
Camping	1
Block Fire Road Gate	1

**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	<hr style="width: 100%;"/>	
	<b>Ben Horenstein</b> General Manager	<b>Ben Horenstein</b> General Manager