



STAFF REPORT

Meeting Type: Board of Directors
Title: General Manager's Report May 2024
From: Bret Uppendahl, Acting General Manager
Meeting Date: June 18, 2024

TYPE OF ACTION: X Action Information Review and Refer

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of May 2024 was 21.2 MGD compared to 20.1 MGD for the month of May 2023. Typical usage for May is 26.2 MGD.
- The daily average flow from Sonoma County Water Agency for the month of May 2024 was 0.3 MGD compared to 7.6 MGD for the month of May 2023.
- Staff conducted a kickoff meeting with consultant Black & Veatch for the spillway capacity and condition assessment project, which will be evaluating all dam spillways for impacts of climate change and atmospheric river due to climate change.
- Staff applied for a USBR grant for planning and design for spillway modification project, which will allow the District to increase reservoir storage at Nicasio Reservoir providing additional drought resiliency.
- Staff advertised the 2024 Tiburon Pipeline Replacement Project. This project will install approximately 3,490 feet of new pipe to replace old, leak-prone pipe in the Town of Tiburon installed as early as 1922, improving the District's resiliency and reliability within the community.
- Staff met with a consultant team to review potential pipeline alignments for the Soulajule Pipeline Project and to consider alternatives to proceed with further, design, environmental and right of way. The installation of this pipeline will ensure that pumping from Soulajule goes directly into the main body of Nicasio Reservoir ensuring delivery of water during times of drought.
- Staff responded to 1,214 underground service alert tickets and marked out approximately 23,012 feet of pipe, ensuring that the water infrastructure is not damaged by contractors or homeowners during excavations.

- Staff replaced the failed flowmeter at Wolfback Ridge Pump Station. The flowmeter allows for remote monitoring of pump performance.
- Staff installed and programmed a 3-way ball valve on the pilot assembly for the 14" Ross Reservoir Valve. The 3-way ball valve is programmed to close the valve if the existing close solenoid fails.
- Staff visited East Bay Municipal Utility District (EBMUD) two times. Staff toured their warehouse/pipe yard and got to see some of their work in the field. The work in the field included pressurized curb stop replacements, excavation techniques and a different method for replacing water service laterals.
- Staff replaced two damaged 16" gate valves in San Rafael. One of the valves had a bent stem and was extremely difficult to turn and the second one was stuck in the open position. Staff removed both of the damaged 16" gate valves and installed two new 16" Butterfly valves.
- Staff replaced a worn roof on Greenbrae Pump Station. The work consisted of tearing off existing composite shingles, tar paper, metal flashing and replacing several pieces of plywood due to rot. New tar paper, metal flashing and composite shingles were installed. Staff also repainted the exterior soffits and cleaned off the exterior walls to the building.
- A contractor working for Pacific Gas and Electric (PG&E) was conducting work on a roadway above Fairfax Manor pump station. An accident led to a large pavement grinder rolling down the hill from an elevated location, rendering the Fairfax Manor pump inoperable and damaging the pump building. Staff secured a secondary pumping location and installed a new fire hydrant to facilitate operation. Staff then mobilized a portable diesel powered pump until the primary pump can be assessed and repaired.
- The District continued implementation of Year 5 of the Biodiversity Fire, & Fuels Integrated Plan (BFFIP) through May 2024 with multiple Fuels Reduction, Pile Burning, and Invasive Weed Abatement Projects across the Watershed. In partnership with Marin County Fire Department & Fire Foundry, and under contract with Biswell Forestry and Hanford ARC, the District burned roughly 3,200 piles in FY24, more than twice the previous year.
- Other vegetation management projects include routine Fine Fuel Reduction around Ranger Residences, parking lots, and Watershed Facilities, and hand-pulling of Poison Hemlock.
- The District wrapped up the FY24 portion of a Forestry Corps grant with CCNB focusing on French Broom removal and pile burning, and will revisit that work again in February 2025.
- Staff continues to make progress on the Azalea Hill Trail Project utilizing a CCNB Nature Based Solutions crew. Highlights include 150' of new trail construction past the Site 9 bridge site and rock staging for numerous rock crossings. Piazza Construction has completed drilling, forming and pouring the concrete abutments at the upper Azalea Hill Trail bridge site near Bolinas-Fairfax Road including ongoing bank stabilization.
- Santa Cruz Mountain Trail Stewardship completed a week long training with District staff in the latest trail building techniques including updated BMP's.
- Staff completed the annual RT-130 Fire Training to maintain Red Card certification within the workgroup.
- The Watershed Director and Natural Resources Program Manager (NRPM) attended the CA Trails and Greenways Conference May 30 – June 3, where the NRPM was a panelist on the 'Biodiversity Engagement Zones' breakout session.
- Supporting public outreach for fuel reduction, forest health and work force development, the District participated with a MCF media event at the W. Ridgecrest burn units on May 14th.

- On May 29th, the One Tam Bee Lab Staff positively identified a few individual 'critically imperiled' ground-nesting bees (*Trachusa gummifera*) at a site near Pine Mountain on the watershed.
- The District opened bids for the Lagunitas Creek Habitat Enhancement Project on May 7 and awarded the construction contract for Phase 1A to Hanford ARC on May 21. Construction is expected to begin in August. Fisheries staff continued to finalize project permitting and landowner access for this project.
- The District accepted a \$600K Fisheries Restoration grant from CDFW to complete final designs and permitting for Phase 2 starting this year.
- The annual Lagunitas Creek salmonid smolt monitoring season was completed in late May, and staff are currently compiling the results.
- Frog Docent and Turtle Observer programs completed for the season. Star Academy high school students participated in watershed stewardship activities on the watershed. Staff led bilingual story time at Pickleweed Library. Nineteen volunteers helped with broom removal work near Phoenix Lake.

MARIN WATER GRANT STATUS

OPPORTUNITY	FUNDER	FUNDER PRIORITIES	PROJECT DETAILS		DESCRIPTION	STATUS	REQUIREMENTS		BUDGET	
			APPLICATION DATE	MATCHING PROJECT			PREREQUISITE	FUNDS REQUESTED	MATCH REQUIREMENT %	

CURRENT APPLICATIONS

\$42,173,326

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 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	\$590,000	0
Prop 1. Fisheries Restoration	CDFW	Fisheries	7/1/23	Lagunitas Creek Restoration	Lagunitas Creek Restoration Sites 1-6	Funded	60% 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

UPCOMING OPPORTUNITIES

\$0

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%
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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

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

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)
Potable				
Total production this FY	6,294	19,314	6,084	18,672
Monthly production, May	654	2,007	624	1,915
Daily average, May	21.09	64.73	20.13	61.79
Recycled				
Total production this FY	216.60	664.73	189.97	583.00
Monthly production, May	25.26	77.52	21.03	64.54
Daily average, May	0.81	2.50	0.68	2.08
Raw Water				
Total production this FY	42.76	131.23	47.02	144.30
Monthly production, May	3.92	12.03	4.21	12.92
Daily average, May	0.13	0.39	0.14	0.42
Imported Water				
Total imported this FY	1,754	5,384	1,222	3,750
Monthly imported, May	8	25	236	725
Reservoir Storage				
Total storage	25,243	77,467	25,466	78,153
Storage change during May	-599	-1,839	-332	-1,020
Stream Releases				
Total releases this FY	2,501	7,675	2,189	6,718
Monthly releases, May	226	692	210	645

2. <u>Precipitation:</u>	<u>FY 2023/24 (in.)</u>	<u>FY 2022/23 (in.)</u>
Alpine	47.33	59.05
Bon Tempe	41.66	58.51
Kent	48.85	56.32
Lagunitas *	49.52	48.43
Nicasio	33.70	46.69
Phoenix	47.64	68.24
Soulajule	32.70	46.31
* Average to date = 51.84 inches		

3. Water Quality:

<u>Laboratory:</u>	<u>FY 2023/24</u>	<u>FY 2022/23</u>
Water Quality Complaints:		
Month of Record	15	16
Fiscal Year to Date	91	143
Water Quality Information Phone Calls		
Month of Record	16	6
Fiscal Year to Date	72	87

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 2,207 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 1.07 (0.40 – 1.52) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: Two flushing events were performed for this month on record related to a complaint and a sampling event.

Disinfection Program: 3,547' of new pipelines were disinfected during the month of May. Performed chlorination on 12 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 10 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 2,207 water samples, treated 12 storage tanks for low chlorine, and checked an additional 10 tanks for low chlorine residual in May 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)	2.77	2.75 *	2.76	2.75 *	2.86	2.75 *
Color (units)	0.7	≤ 15	0.3	≤ 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 has been installing water facilities along Redwood Drive and has completed more than 3,500 linear feet of water pipe installation. The

Contractor is currently installing water services along Redwood Drive, Park Road, and Conifer Way.

- 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: The project was awarded for construction at the April 16 Board of Directors meeting and the contract has been executed. Preliminary construction planning work is underway and field work will begin June 17 after school is out of session. 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 mobilized equipment to the project site and has begun performing potholing, and water main pipeline alignment and installation.

- 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 construction contract was awarded at the May 21 Board of Directors Meeting. The Contract has been executed and the pre-construction meeting has been held. The preliminary phases of construction 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.

6. Other:

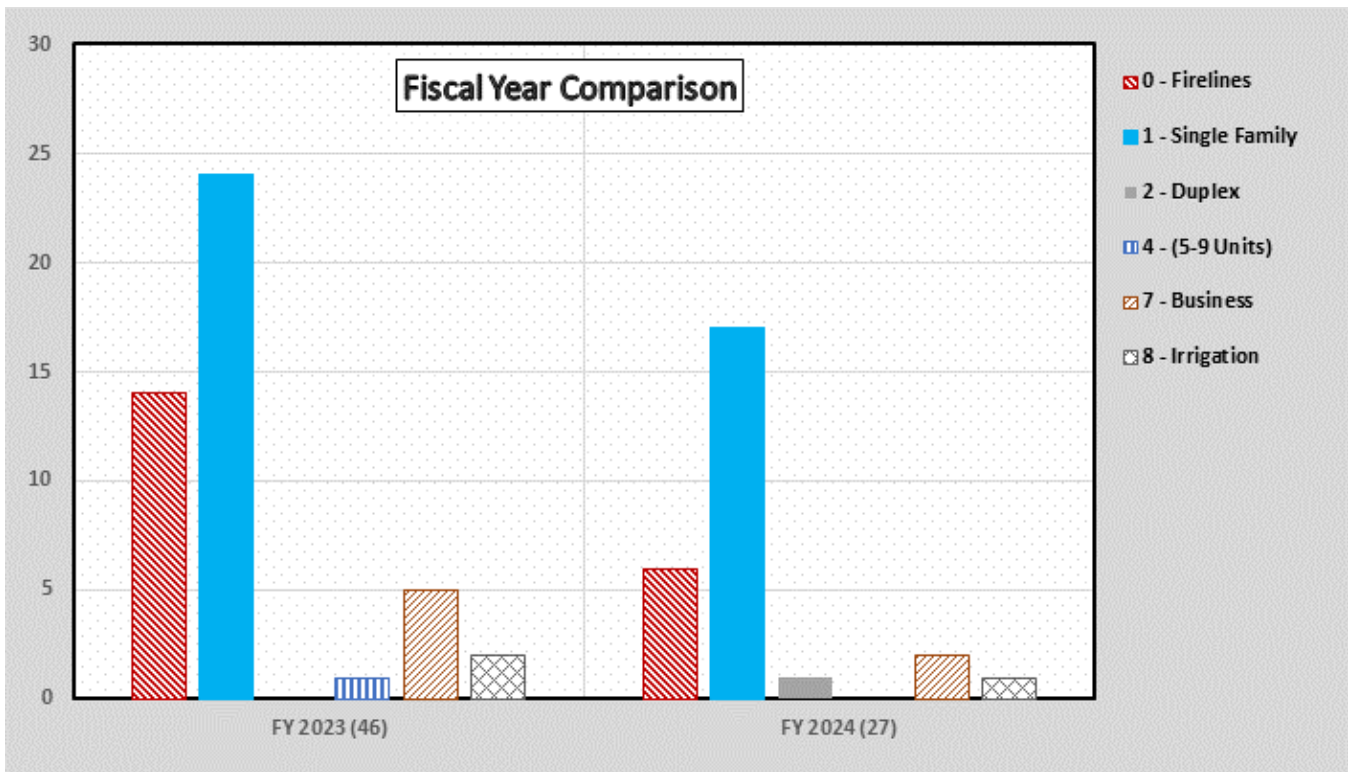
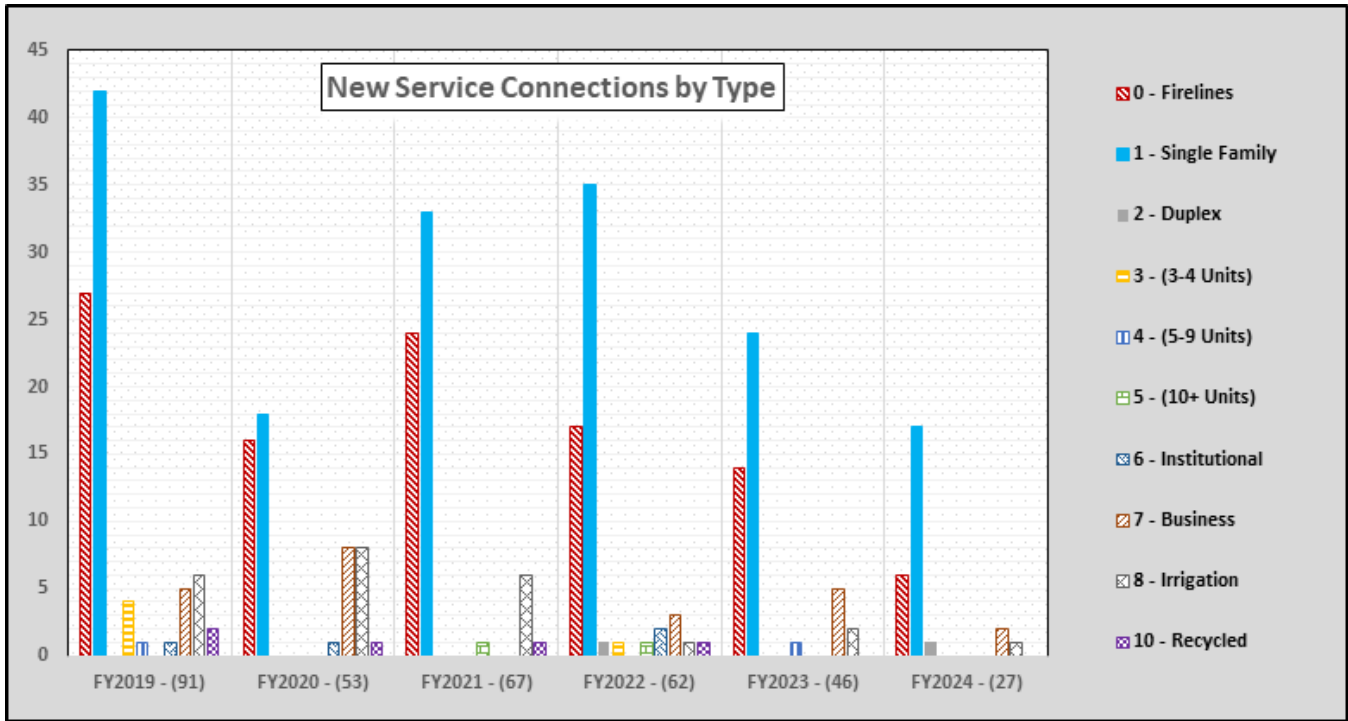
<u>Pipeline Installation</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Pipe installed during May (feet)	2,321	3,953
Total pipe installed this fiscal year (feet)	4,943	13,037
Total miles of pipeline within the District	908*	908*

** Reflects adjustment for abandoned pipelines*

<u>Pipe Locates (1,133 Responses)</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of May (feet)	41,588	27,219
Total this fiscal year (feet)	322,555	237,510

<u>Main Line Leaks Repaired:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Month of May	8	11
Total this fiscal year (7/1/23-5/31/24)	114	166

<u>Services:</u>	<u>FY2023/24</u>	<u>FY2022/23</u>
Service upgrades during May	15	26
Total service upgrades this FY	165	160
Service connections installed during May	1	4
Total active services as of June 1st, 2024	60,546	60,744
(Total Including firelines)	61,933	62,133



7. Recruitments, Competitive Promotions and New Hires

The District is currently recruiting for the following positions:

- Engineering Technician-Development Services Supervisor
- Associate/Assistant Engineer
- Supervising Land Surveyor
- Water Conservation Specialist III
- Field Pipeline Locator Intern
- Engineering Technician - Facilities Designer I

Through competitive recruitments, employees promoted to the following positions:

- Controls Technician
- Program Manager (AMI)
- Senior Customer Service Field Inspector

The District recently hired new employees for the following positions:

- Information Systems Analyst I
- Information Systems Analyst Supervisor
- Senior Human Resources Analyst
- Summer Helper – Meter Box Maintenance

8. Demand Management:

	May-24	FY 23/24 TOTAL	FY 22/23 TOTAL	FY 21/22 TOTAL
WATER-EFFICIENCY PROGRAMS				
Water-Use Site Surveys				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	65	355	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
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	5	141	72	100
Public Outreach and Education, Customer Service				
Public outreach events (number of people attending)	300	1922	17775	1602
Public education events (number of participants)	375	375	328	536
Department customer calls/emails	577	3880	4150	9508
Outreach to new Marin Water customers (letters sent)	170	1908	0	0
School Education				
School assemblies				
Number of activities	0	20	0	0
Number of students reached	0	21850	0	0
Field trips				
Number of activities	0	15	15	0
Number of students reached	0	322	307	0
Classroom presentations				
Number of activities	0	14	17	0
Number of students reached	0	457	531	0
Other (e.g. Earth Day booth events, school gardens)				
Number of activities	0	3	1	0
Number of students reached	0	400	480	0
Incentives				
Number of HECWs approved	8	90	103	190
Number of Rain Barrel/Cisterns approved	0	9	15	76
"Cash for Grass" Turf Replacements approved	6	55	116	402
Number of Laundry-to-Landscape Systems (kits) approved	0	0	7	27
Hot water recirculating system rebates	2	7	30	122
Pool Cover rebates	5	30	27	298
HET rebates	1	12	22	92
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	29	513	271	1568
Number of Smart Controllers rebates approved	6	37	35	69
Number of Smart Controllers "RainBird compatible w/Flume" approved	6	115	0	0
Number of Smart Controllers "Rachio Direct Distribution" approved	27	203	77	178
Advanced Metering Infrastructure (AMI)				
AMI leak letters sent to customers (>200 GPD)	148	1219	1168	1050
ORDINANCES				
Water Waste Prevention				
Water Waste Reports Received	26	188	392	4451
Water Waste Notifications Sent	3	36	81	0
Landscape Plan Review				
Plans submitted	5	108	88	77
Plans exempt	1	23	5	1
Plans completed	1	29	20	17
Plans in workflow (pass & fail)	7	159	145	123
Tier 4 Exemption				
Inspections that resulted in a pass	0	2	1	1
Graywater Compliance Form				
Applications Received (as of Dec 2019)	7	139	123	57
Systems installed	1	28	23	13

9. Watershed Protection:

Training for Fire Season

Staff at Sky Oaks completed their annual RT 130 Training in preparation for the fast approaching fire season. RT 130 is required by the State in order to work on the frontline of a wildland fire. Below, personnel practice mobile attacks.



Ranger Mike Krakauer and Trainees Dianne Dollente on mobile attack

Sky Oaks staff train with Biswell Forestry Management members on setting portable pumps for firefighting. The pumps area used to supply water to firefighters in remote areas. We also use the pumps to supply lake water in remote shore areas from our boat. Biswell is a contractor assisting with pile burns.

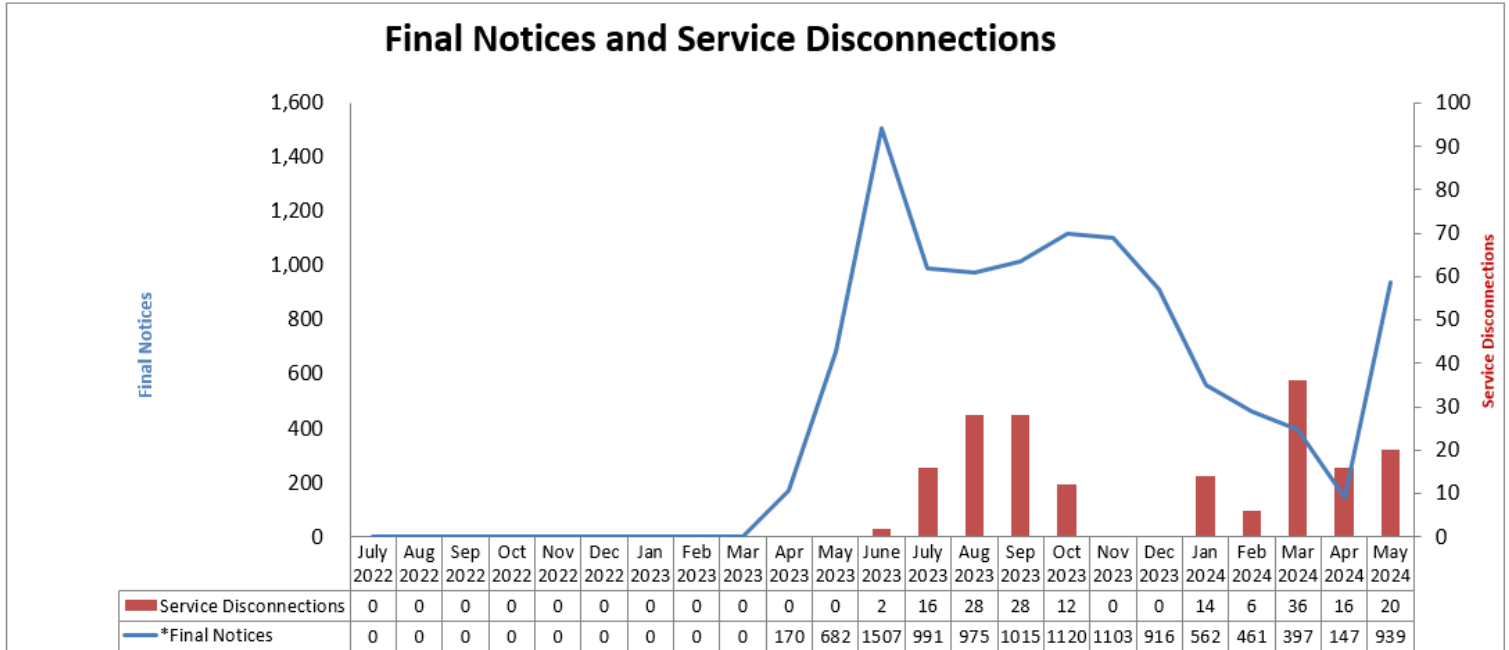


Staff reviewing proper portable pump setup and safety

Incidents and Events	401
Visitor Assists	53
Warnings	23
Assist Watershed Maintenance	11
Dam Check	69
Citations	32
Fish and Game Contact	16
Fire Service	2
Misc Law Enforcement Calls	3
Preventative Search and Rescue	3
Vandalism	15
Warnings	23
Medical Aid	4
Smoking	3
Off Leash Dogs	57
Closed Area	60
Lost Hiker	1
Illegal Trail Work	2
Vehicle Speed	4
Camping	1
Assist Outside Agency	12
Bike Speed	1
Theft	2
Humane/Animal Related	1
Found Property	1
Theft	2
Citations	32
Non-Payment of Parking Fees	25
Closed Area	1
Bike on Trail	6
PATROLS	125
Foot Patrol (Miles)	95
Bike Patrols (Miles)	30

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%; border: 0.5px solid black;"/>	
	<p>Bret Uppendahl Acting General Manager</p>	<p>Bret Uppendahl Acting General Manager</p>