NOTICE OF THE BOARD OF DIRECTORS' REGULAR BI-MONTHLY MEETING

Tuesday, March 18, 2025 at 6:30 PM

AGENDA

LOCATIONS:
Open Session to start at or after 6:30 p.m.
Marin Water Board Room – 220 Nellen Avenue, Corte Madera, CA 94925

Closed Session to immediately follow Open Session
Marin Water Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

Public Participation:
The public may attend this meeting in-person or remotely using one of the following methods:
On a computer or smart device, go to: **https://marinwater.zoom.us/j/88134852296**
By phone, dial: **1-669-444-9171** and use Webinar ID: **881 3485 2296**

HOW TO PROVIDE PUBLIC COMMENT:

During the Meeting: Typically, you will have 3 minutes to make your public comment, however, the board president may shorten the amount of time for public comment due to a large number of attendees. Furthermore, pursuant to Government Code, section 54954.2 (the Brown Act), the Board may not take action or discuss any item that does not appear on the agenda.

-- In-Person Attendee: Fill out a speaker card and provide to the board secretary. List the number/letter (ex: 6a) of the agenda item(s), for which you would like to provide a comment. Once you're called, proceed to the lectern to make your comment.

-- Remote Attendee: Use the "raise hand" button on the bottom of the Zoom screen. If you are joining by phone and would like to comment, press *9. The board secretary will use the last four digits of your phone number to call on you (dial *6 to mute/unmute).

In Advance of the Meeting: Submit your comments by email in advance of the meeting to boardcomment@marinwater.org. To ensure that your comment is provided to the Board of Directors prior to the meeting, please email your comment 24 hours in advance of the meeting start time. Comments received after this cut off time will be sent to the Board after the meeting. Please do not include personal information in your comment such as phone numbers and home addresses.

AGENDA ITEMS:

1. **Call to Order and Roll Call**
2. **Adoption of Agenda**
3. **Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - None.**
4. **Reconvene to Open Session; Closed Session Report Out - Not applicable.**
5. **Public Comment on Non-Agenda Matters**

   This is the time when any person may address the Board of Directors on matters not listed on this agenda, but which are within the subject matter jurisdiction of the Board.

6. **Directors' and General Manager's Announcements** (6:35 p.m. – Time Approximate)
7. **Board Committee Reports**

   Each Committee Chair or Vice Chair will provide a report on recent committee meetings. Directors may ask questions or provide brief comments or requests for additional information on an item.

8. **Consent Items** (6:40 p.m. – Time Approximate)

   All Consent Items will be enacted by a single action of the Board, unless specific items are pulled from Consent by the Board during adoption of the agenda for separate discussion and action.

   a. March 4, 2025 Board Meeting Minutes

   RECOMMENDATION: Approve the minutes of the Board of Directors' Regular Bi-Monthly Meeting on March 4, 2025

   b. General Manager's Report February 2025

   RECOMMENDATION: Approve Report

   c. Award of Contract No. 2012 Pine Mountain Tanks Phase 2 Project (D21043) and Award Professional Services Agreement for Construction Management Services

   RECOMMENDATION: Approve a resolution authorizing award of Contract No. 2012 Pine Mountain Tanks Phase 2 Project to Azul Works Incorporated in the amount of $19,142,500 and authorize the General Manager to execute a professional services agreement MA-6406 with Park Engineering, Inc. for construction management services in support of the Pine Mountain Tanks Phase 2 Project in an amount of $828,870.10, with a staff requested contingency of $300,000, for a total not to exceed amount of $1,128,870.10

9. **Regular Items** (6:55 p.m. – Time Approximate)

   a. Adjustment of District Capacity Charges and consider Revised Board Policies No. 12 and 27 related to the collection of Capacity Charges

   RECOMMENDATION: 1) Adopt Ordinance No. 469 amending various provisions of the Marin Municipal Water District Code Pertaining to Capacity Charges (currently referred to as "Connection Fees"); 2) Adopt a Resolution Updating District Capacity Charges; 3) Approve revisions to Board Policy 12 (*Low Income/ Affordable Housing*) and Board Policy 27 (*Capacity Charge Installment Plan & Deferred Payment of Charges for Qualifying Affordable Housing Projects*)

10. **Future Board and Committee Meetings and Upcoming Agenda Items**

    This schedule lists upcoming board and committee meetings as well as upcoming agenda items for the next month, which may include Board interest in adding future meeting items. The schedule is tentative and subject to change pending final publication and posting of the meeting agendas.

    a. Upcoming Meetings

11. **Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s)**

    Following announcement of Closed Session items and prior to recess into Closed Session, the public may speak up to three minutes on items to be addressed in Closed Session. The Board will convene to Closed Session in the Mt. Tam Conference Room after public comment.

    a. **Conference with Legal Counsel - Anticipated Litigation**
    Significant Exposure to Litigation/Liability Claim
    (Government Code §54956.9(e)(3))

    Number of Claims: One

    Adjourn closed session and reconvene to open session in the Board Room and via Zoom.

12. **Reconvene to Open Session; Closed Session Report Out**

13. **Adjournment** (8:00 p.m. – Time Approximate)

ADA NOTICE AND HEARING-IMPAIRED PROVISIONS

In accordance with the Americans with Disabilities Act (ADA) and California Law, it is Marin Water's policy to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including those with disabilities. If you are an individual with a disability and require a copy of a public hearing notice, an agenda, and/or agenda packet in an appropriate alternative format, or if you require other accommodations, please contact the Board Secretary/ADA Coordinator at 415.945.1448, at least two business days in advance of the meeting. Advance notification will enable Marin Water to make reasonable arrangements to ensure accessibility.

Information agendas are available for review at the Civic Center Library, Corte Madera Library, Fairfax Library, Mill Valley Library, Marin Water Administration Building, and marinwater.org.

Posted: 03-14-2025

STAFF REPORT

Meeting Type:	Board of Directors
Title:	March 4, 2025 Board Meeting Minutes
From:	Terrie Gillen, Board Secretary
Through:	Ben Horenstein, General Manager
Meeting Date:	March 18, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: Approve the minutes of the Board of Directors' Regular Bi-Monthly Meeting on March 4, 2025

SUMMARY: The Board of Directors held their regular bi-monthly meeting on March 4, 2025. The minutes of that meeting are attached for your approval.

DISCUSSION: None.

ENVIRONMENTAL REVIEW: Not applicable.

FISCAL IMPACT: None.

ATTACHMENT(S):

1. Draft March 4, 2025 Meeting Minutes

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Communications & Public Affairs Department	Terrie Gillen Board Secretary	Ben Horenstein General Manager

Attachment 1

NOTICE OF THE BOARD OF DIRECTORS' REGULAR BI-MONTHLY MEETING

Tuesday, March 04, 2025 at 5:00 PM

MINUTES

LOCATIONS:
Open Session to start at or after 6:30 p.m.
Marin Water Board Room – 220 Nellen Avenue, Corte Madera, CA 94925

Closed Session begins at 5:00 p.m.
Marin Water Mt. Tam Conference Room, 220 Nellen Avenue, Corte Madera, CA 94925

Public Participation:
The public may attend this meeting in-person or remotely using one of the following methods:
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By phone, dial: **1-669-444-9171** and use Webinar ID: **881 3485 2296**

AGENDA ITEMS:

1. **Call to Order and Roll Call**

   President Matt Samson called the meeting to order at 5 p.m.

   DIRECTORS PRESENT

   Ranjiv Khush

   Diana Maier (*arrived at 5:01 p.m.*)

   Jed Smith

   Matt Samson

   DIRECTOR ABSENT

   Larry Russell

2. Adoption of Agenda

Vice President Smith made the motion to adopt the agenda. Director Khush seconded the motion.

There were no public comments.

Voting Yea: Directors Khush, Smith, and Samson

3. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s)

There were no public comments.

Director Diana Maier arrived at 5:01 p.m.

The Board convened to Closed Session and went to the Mt. Tam Conference Room.

a. Public Employee Performance Evaluations
(CA Government Code §54957)

Titles: General Manager and General Counsel

The Board adjourned the Closed Session and went to the Board Room.

4. Reconvene to Open Session; Closed Session Report Out

At 6:30 p.m., the Board reconvened to Open Session in the Board Room.

President Samson stated that no reportable action was taken.

5. Public Comment on Non-Agenda Matters

There was one (1) public comment.

6. Directors' and General Manager's Announcements

7. Board Committee Reports

Chair Jed Smith provided a summary of what occurred at the Finance & Administration Committee on February 27.

8. Consent Items

a. February 25, 2025 Board Meeting Minutes

RECOMMENDATION: Approve the minutes of the Board of Directors' Regular Bi-Monthly Meeting on February 25, 2025

b. Quarterly Investment Report

RECOMMENDATION: Receive report of the District's investment portfolio

c. Nicasio Spillway Modifications Amendment No. 2 to Professional Services Agreement MA 6335 with Black and Veatch

RECOMMENDATION: Authorize the General Manager to execute Amendment No. 2 to Professional Services Agreement MA-6335 with Black and Veatch to expand the scope of services in support of the Nicasio Spillway Modifications Project in an amount not to exceed $1,750,000 for a new contract not to exceed amount of $3,994,669

Director Khush made the motion to approve the Consent Calendar. Director Maier seconded the motion.

There were no public comments.

Voting Yea: Directors Khush, Maier, Smith, and Samson

9. Regular Items

a. Approval of a Professional Services Agreement for Systems Integrator for SAP Implementation Services – Payroll and Human Resources Modules

RECOMMENDATION: Approve a new professional services agreement with Phoenix Business Consulting to serve as the Systems Integrator for the implementation of the first phase of the ERP Modernization project in an amount not to exceed $1,386,030 over a two year period and authorize the General Manager to finalize and execute the contract for these services

Finance Director Bret Uppendahl and Information Technology Manager Brad Taylor presented this item.

Discussion followed.

There was one (1) public comment.

Director Maier made the motion to approve Professional Services Agreement with Phoenix Business Consulting. Vice President Smith seconded the motion.

Voting Yea: Directors Khush, Maier, Smith, and Samson

b. Amendment No. 3 to Professional Services Agreement MA 5875 with Woodard and Curran

RECOMMENDATION: Authorize the General Manager to execute Amendment No. 3 to Professional Services Agreement MA 5875 with Woodard and Curran to extend the contract date to June 30, 2027 and expand the scope of services to support ongoing capital infrastructure planning in an amount not-to-exceed $432,000, for a new total contract not-to-exceed amount of $1,870,528

Engineering Director Alex Anaya and Planning Engineering Manager Elysha Irish presented this item. Discussion followed.

There were no public comments.

Director Maier made the motion to approve Amendment No. 3 to Professional Services Agreement MA-5875 with Woodard and Curran. Director Khush seconded the motion.

Voting Yea: Directors Khush, Maier, Smith, and Samson

10. Future Board and Committee Meetings and Upcoming Agenda Items

a. Upcoming Meetings

The Board Secretary announced the remaining internal and external meetings for the month of March, and President Samson added the reminder of the North Bay Watershed Association Meeting on Friday, March 7.

There were no public comments.

11. Announcement of Closed Session Item(s); Public Comments on Closed Session Item(s) - None.

12. Reconvene to Open Session; Closed Session Report Out - Not applicable.

13. Adjournment

There being no further business, the Board of Directors' Regular Bi-Monthly Meeting adjourned on March 4, 2025 at 7:05 p.m.

_____

Board Secretary

MARIN WATER

STAFF REPORT

Meeting Type: Board of Directors

Title: General Manager's Report February 2025

From: Ben Horenstein, General Manager

Meeting Date: March 18, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: Approve Report

SUMMARY:

A. HIGHLIGHTS:

- The daily average net production for the month of February 2025 was 13.8 MGD compared to 13.6 MGD for the month of February 2024. Typical usage for February is 17.2 MGD.
- Staff conducted site visit with the Lagunitas TAC in support of the Nicasio Spillway Modifications Project. This meeting was to provide information to the Lagunitas TAC on the Project and obtain feedback from them. Staff also attended the Nicasio Landowners HOA meeting to introduce the Project to the residents in the Community of Nicasio. Staff will have regular check in meetings with both the Lagunitas TAC and Nicasio Landowner HOA to keep interested parties up to date on the Project.
- Staff received confirmation that one of staff's abstracts has been accepted for a formal presentation at this year ACE AWWA conference in Denver, CO. This will provide staff an opportunity for continued involvement in professional conferences and share some of the more technical work that the District has been working on. The presentation will be focused on the Districts system evaluation for micro turbine energy recovery opportunities and the findings.
- Annual water quality flushing was performed on the District's water mains to clean sediment build-up in areas of our water system. This year staff flushed areas in Mill Valley, Sausalito and Tam Valley. These areas represented approximately 20% of the District service area. Over the course of eight days, teams of two completed an assigned procedure consisting of flushing 18-20 facilities per team per day. The facilities flushed include hydrants and blow offs.
- Staff completed the Ignacio Pump Station volumetric test. The test verifies the accuracy of the pump station flowmeter and the flowmeter is used by both North Marin Water District and Sonoma County Water Agency for billing purposes.

- An act of vandalism left the Terra Linda Tank level sensor, communication antennae and the potable make up valve without PG&E power. Temporary batteries were installed to power the facility until staff could replace 1,200 ft. of wire to get the site back on to PG&E power.
- A seasonal flow change was needed at the Soulajule creek release. However, the valve did not respond with remote command. Staff completed a site visit to change the flow by hand and began to investigate the failure. The actuator was removed and brought back to the yard shop where it was disassembled and discovered to have a broken gear. The parts were ordered and the gear box reassembled and installed to once again allow for remote operation.
- Water level in a tank is often controlled by an altitude valve. If the rubber diaphragm fails within the valve, water level in the tank could rise and risk overflow. This month, staff overhauled several major altitude valves with a new diaphragm including Puerto Suello Tank, Strawberry Tank and San Clemente Tank. Additionally, Lucas Valley Tank altitude valve pilots were changed to prevent sticking.
- Staff continues to make progress on the BFFIP Fuel Reduction work. Maintenance conducted 7 pile burn days in February totaling 425 piles for the month, and over 1,000 piles so far this burn season through 2/28/25. Coordination with Forster & Kroeger, Biswell Forestry, CCNB, is ongoing to continue burning piles near West Peak of Mt Tam.
- Winter storms resulted in a land slide on Filter Plant Rd. watershed maintenance cleared the slide over a two day period and coordinated with PG&E to repair the power lines running to Bon Tempe Treatment Plant.
- In February vegetation work transitioned from forest thinning projects to broom pulling due to the beginning of Spotted Owl nesting season. 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. The district also coordinated with PG&E contractors as they completed routine fuelbreak maintenance around a leased facility near Middle Peak.
- Weekly salmon spawner surveys continued with record counts of both Coho and Chinook Salmon in the Lagunitas Creek watershed. A peak flow of 6,210 cfs occurred in Lagunitas Creek (approximately 20-25 year event) on February 4th, and District staff were pleased to observe that all Phase 1A habitat enhancement structures remained intact and appear to be performing well.
- Fisheries continued Nicasio creek monitoring by compiling reservoir water temperature data and deploying continuous water temperature data loggers downstream of the reservoir.

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	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	$600,000	50%
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
Lagunitas Creek Salmonid Spawning Gravel Improvement Project	USBR Environmental Restoration Project	Fisheries	8/17/23	Lagunitas Creek Restoration	Gravel augmentation for Lagunitas Creek Sites 1-3	Funded	CEQA	$1,400,000	39.39%
Rain Water Harvesting Project	MCSTOPP	Conservation	Unknown	Conservation	Barells 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
Azalea Hill Trail Restoration	State Parks	Trail Restoration	2/1/20	Watershed	Azalea Hill Restoration	Funded	None	$952,857	0
One Tam Forest Health Strategy	CA WCB	Forestry Restoration	11/21/23	BFFIP Implementation	BFFIP Implemenation for 2-3 years	Funded	CEQA	$2,800,000	0
WaterSMART Aplied 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 Implemenation 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	Deslaintation	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 expand 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 Implemenation 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%
UPCOMING APPLICATIONS							**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	USDFW	Water Supply	Unknown	Phoenix Lake	Habitat Conservation Planning	TBD	Habitat Conservation Pl	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	4,870	14,946	4,749	14,573
Monthly production, February	386	1,183	394	1,210
Daily average, February	13.77	42.26	14.09	43.23
Recycled				
Total production this FY	176.19	540.69	172.10	528.17
Monthly production, February	8.55	26.24	8.33	25.55
Daily average, February	0.31	0.94	0.30	0.91
Raw Water				
Total production this FY	61.56	188.92	38.84	119.20
Monthly production, February	0.00	0.00	0.00	0.00
Daily average, February	0.00	0.00	0.00	0.00
Imported Water				
Total imported this FY	1,443	4,429	1,702	5,224
Monthly imported, February	10	31	6	20
Reservoir Storage				
Total storage, February	25,920	79,546	25,927	79,566
Storage change during February	-7	-20	0	0
Stream Releases				
Total releases this FY	2,006	6,156	2,076	6,371
Monthly releases, February	75	230	67	205

2. Precipitation:

	FY 2024/25 (in.)	FY 2023/24 (in.)
ALPINE	14.89	39.83
BON TEMPE	12.79	36.18
KENT	16.37	41.62
LAGUNITAS	15.98	42.10
NICASIO	10.77	28.49
PHOENIX	17.16	41.39
SOULAJULE	11.75	28.26

* Average to date = 39.35 inches

3. Water Quality:

Laboratory	FY 2024/25	FY 2023/24
Water Quality Complaints:		
Month of Record	16	7
Fiscal Year to Date	151	58
Water Quality Information Phone Calls:		
Month of Record	8	13
Fiscal Year to Date	93	39

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 1,570 analyses on treatment plants and distribution system samples.

Mild steel corrosion rates averaged 1.77 (0.69 – 3.29) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: Two flushing event was performed at 121 Sequoia Dr. in San Anselmo and one at 1234 Las Gallinas Ave. in San Rafael to ensure water quality for this month on record.

Disinfection Program: 1,893’ of new pipelines were disinfected during the month of February. Performed chlorination on 3 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 60 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 1,570 treatment plant and distribution water samples, and the water quality department treated 3 tanks for low chlorine and checked an additional 60 tanks for low chlorine residual in February 2025.

4. Water Treatment:

	San Geronimo		Bon Tempe		Ignacio	
Treatment Results	Average	Monthly Goal	Average	Monthly Goal	Average	Monthly Goal
Turbidity (NTU)	0.05	≤ 0.10	0.05	≤ 0.10	0.05	≤ 0.10
Chlorine residual (mg/Lv)	2.74	2.75 *	2.74	2.75 *	2.87	2.75 *
Color (units)	0.5	≤ 15	0.2	≤ 15	0.0	≤ 15
pH (units)	7.8	7.8*	7.7	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 is complete.

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 has completed repairs and recoating for one of the two tanks and is removing containment. The completed first tank will be tested and

placed back into service in March and the Contractor will begin installing containment and performing repairs on the second tank. The project completion is estimated 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 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 project has been substantially completed and the contractor has demobilized equipment. Final roadway striping remains, which will be completed March 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 5,000 linear feet of pipe installation and is currently installing mainline pipe on Oak Manor Drive and Von Court. The Contractor is also completed water service installation on Arcangel Court. 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 performing mainline pipe installation and has installed approximately 4,200 linear feet of 8-inch welded steel pipe to date. The contractor is currently working near Sir Francis Drake Boulevard and Cole Drive. The project is expected to be completed October 2025.

6. Other:

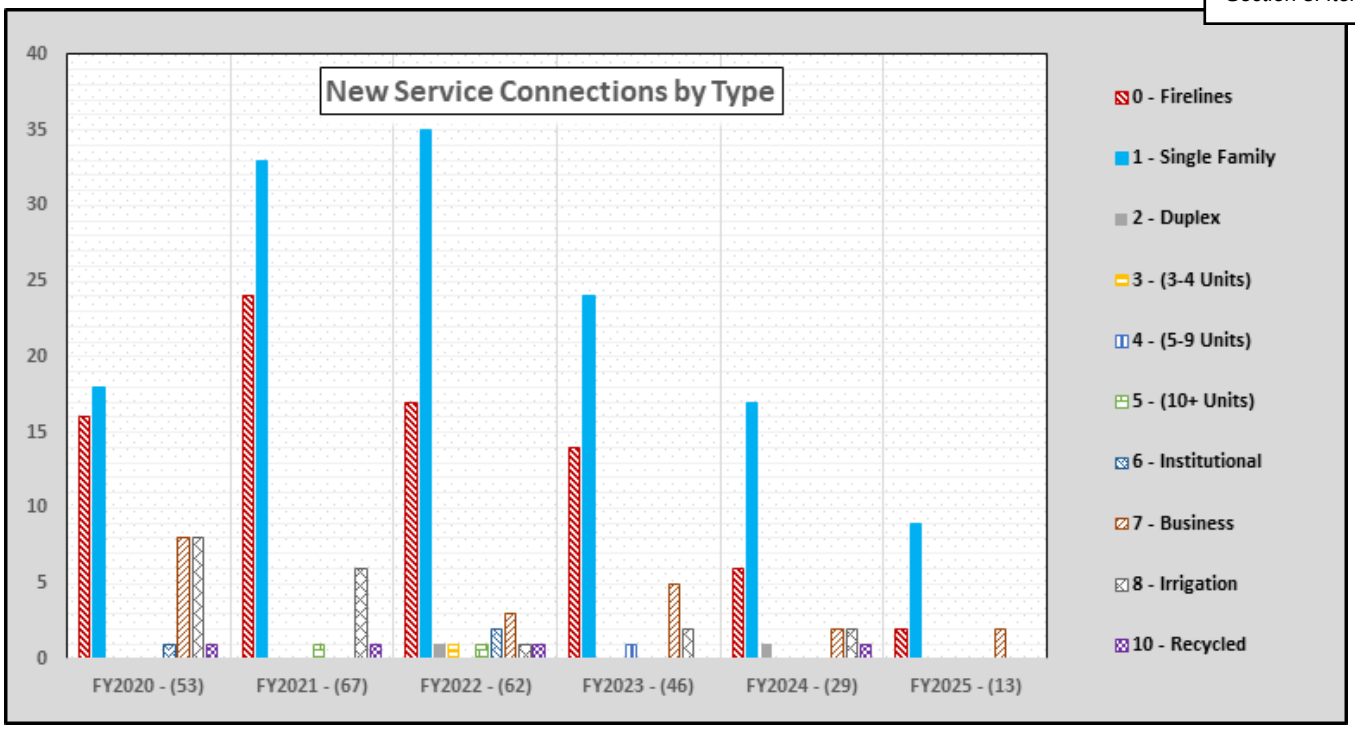
Pipeline Installation	FY2024/25	FY2023/24
Pipe installed during February (feet)	3,838	0
Total pipe installed this fiscal year (feet)	21,699	1,439
Total miles of pipeline within the District	908*	908*

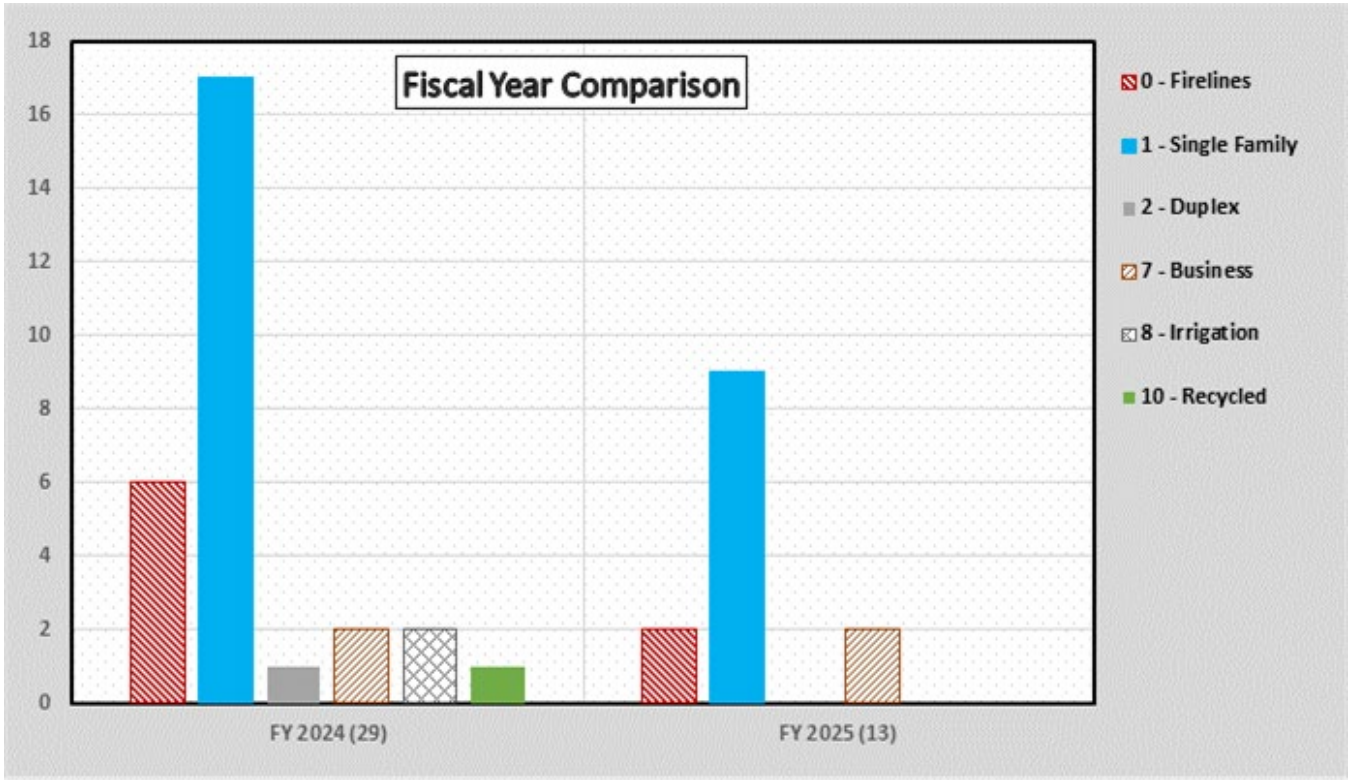
** Reflects adjustment for abandoned pipelines*

Pipe Locates (803 Responses)	FY2024/25	FY2023/24
Month of February (feet)	30,539	16,209
Total this fiscal year (feet)	296,275	226,424

Main Line Leaks Repaired:	FY2024/25	FY2023/24
Month of February	9	11
Total this fiscal year (7/1/24-5/31/25)	103	87

Services:	FY2024/25	FY2023/24
Service upgrades during February	13	15
Total service upgrades this FY	128	128
Service connections installed during February	0	2
Total active services as of February 1st, 2024	60,595	60,578
(Total Including firelines)	61,984	61,960


New Service Connections by Type
40
35
30
25
20
15
10
5
0
FY2020 - (53)
FY2021 - (67)
FY2022 - (62)
FY2023 - (46)
FY2024 - (29)
FY2025 - (13)
0 - Firelines
1 - Single Family
2 - Duplex
3 - (3-4 Units)
4 - (5-9 Units)
5 - (10+ Units)
6 - Institutional
7 - Business
8 - Irrigation
10 - Recycled


Fiscal Year Comparison
18
16
14
12
10
8
6
4
2
0
FY 2024 (29)
FY 2025 (13)
0 - Firelines
1 - Single Family
2 - Duplex
7 - Business
8 - Irrigation
10 - Recycled

7. Recruitments and Hires

The District is currently recruiting for the following positions:

1. Associate Engineer (2 Positions)
2. Treatment Plant Trainee II / Treatment Plant System Operator III
3. Customer Service Representative I/II
4. Watershed Aide (Seasonal)

The District recently hired new employees for the following positions:

5. Senior Administrative Assistant
6. Treatment Plant Trainee II
7. Watershed Aide (3 Positions)

8. Demand Management:

	Feb-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)	35	417	404	291
Residential properties resi 3-5 (multi-family units)	2	7	6	3
Non-residential properties resi 6-7 (commercial)	0	0	0	3
Dedicated irrigation accounts resi 8-10 (large landscape)	2	4	0	0
Marin Master Gardeners' Marin-Friendly Garden Walks				
Residential garden walks	10	76	173	72
Public Outreach, Education, Customer Service				
Public outreach events (number of people attending)	0	3500	7022	17775
Public education events (number of participants)	0	225	425	328
Department customer calls/emails	349	4465	4485	4150
Outreach to new Marin Water customers (letters sent)	192	952	1908	0
School Education				
School assemblies				
Number of activities	0	6	19	0
Number of students reached	0	6900	21850	0
Field trips				
Number of activities	0	10	16	15
Number of students reached	0	204	343	307
Classroom presentations				
Number of activities	1	7	14	17
Number of students reached	25	192	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	0			
Number of HECWs approved	0	2	98	103
Rain Barrel/Cisterns approved	2	13	9	15
Rain Barrel/Cisterns gallons		5560	0	0
Rain Barrel Give-a-way (Gallons)	2200	22660	4840	0
"Cash for Grass" Lawn Replacements approved	1	46	61	116
"Cash for Grass" (Best Practices) square ft. lawn replaced	0	3362	0	0
"Cash for Grass" (Standard) square ft. lawn replaced	420	53068	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	21	35	27
HET rebates	0	4	17	22
Number of Smart Home Water Monitor "Flume Direct Distribution" redeemed	19	380	544	271
Number of Smart Controllers MW rebates approved	0	20	49	35
Number of Smart Controllers "RainBird compatible w/Flume" approved	0	43	131	0
Number of Smart Controllers "Rachio Direct Distribution" approved	4	113	219	77
Advanced Metering Infrastructure (AMI)				
AMI leak letters sent to customers (>200 GPD)	73	881	1330	1168
ORDINANCES				
Water Waste Prevention				
Water Waste Reports Received	7	127	224	392
Water Waste Notifications Sent	1	25	49	81
Landscape Plan Review				
Plans submitted	8	53	117	88
Plans exempt	2	6	23	5
Plans completed	2	15	30	20
Plans in workflow (pass & fail)	15	84	172	145
Tier 4 Exemption				
Inspections that resulted in a pass	0	1	2	1

9. Watershed Protection:

Fish Plants on Hold on the Watershed

Golden Mussels are a new emerging threat to California waterways. As a precautionary measure and in order to protect the District's water system from this potential threat, the planting of Rainbow Trout by the California Dept. of Fish and Wildlife at Bon Tempe has been suspended. This suspension does impact watershed visitors who enjoy trout fishing on the watershed.

Reports of Coyotes Approaching People

Rangers received several reports from hikers of a coyote approaching them. It's unknown if it's the same coyote. The reports have occurred on Deer Park Road, Fish Grade, Shaver Grade and Filter Plant Road. Rangers will continue to monitor these incidents and may request assistance from CA Dept. of Fish and Wildlife.

Rangers Continue to Support Pile Burning

The Rangers continue to assist Watershed Natural Resource and Maintenance personnel with ongoing pile burning to reduce watershed fire danger and fuel loading. Pile burns are occurring in targeted areas, including around the Bon Temp Treatment Plant and currently the area below the old Air Force Base at West Peak. The burns will continue prior to the start of fire season.

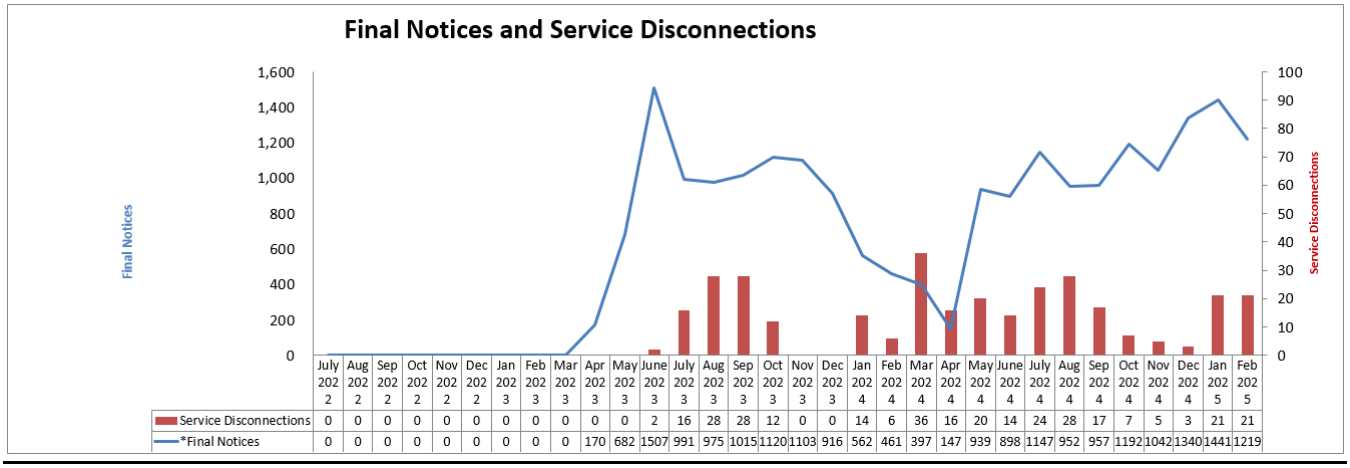
Incidents and Events	628
Visitor Assists	127
Warnings	123
Fish and Game checks	95
Dam Checks	91
Citations	74
Assist Maintenance	64
Misc. Law Enforcement Calls	22
Vandalism	5
Preventive Search and Rescue	5
Humane/Animal Call	4
Fire Service	3
Search and Rescue	3
Medical Aid	2
Suspicious Circumstance	2
Ranger Callout	1
Citizen Complaint Illegal Bike Use	1
Citizen Complaint: eBike	1
Vehicle Accident	1
Citizen Complaint: Off Leash Dogs	1
Theft	1
Disturbance/Dispute	1
Assist Other MMWD Work Group	1

Citations Issued	74
Nonpayment of Parking Fees	65
Obstructing Traffic/6 ft. of Center	7
Parking After Sunset	1
Fishing Without License	1

Type of Patrol	
Foot	61
Bike	71

10. Shutoff Notices and Disconnections:

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



	July 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023	May 2023	June 2023	July 2023	Aug 2023	Sep 2023	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	June 2024	July 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025
Service Disconnections	0	0	0	0	0	0	0	0	0	0	0	2	16	28	28	12	0	0	14	6	36	16	20	14	24	28	17	7	5	3	21	21
*Final Notices	0	0	0	0	0	0	0	0	0	170	682	1507	991	975	1015	1120	1103	916	562	461	397	147	939	898	1147	952	957	1192	1042	1340	1441	1219

FISCAL IMPACT: None.

ATTACHMENT(S): None.

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	_____	
	Ben Horenstein General Manager	**Ben Horenstein General Manager**

MARIN WATER

STAFF REPORT

Meeting Type:	Board of Directors
Title:	Award of Contract No. 2012 Pine Mountain Tanks Phase 2 Project (D21043) and Award Professional Services Agreement for Construction Management Services
From:	Alex Anaya, Director of Engineering
Through:	Ben Horenstein, General Manager
Meeting Date:	March 18, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: Approve a resolution authorizing award of Contract No. 2012 Pine Mountain Tanks Phase 2 Project to Azul Works Incorporated in the amount of $19,142,500 and authorize the General Manager to execute a professional services agreement MA-6406 with Park Engineering, Inc. for construction management services in support of the Pine Mountain Tanks Phase 2 Project in an amount of $828,870.10, with a staff requested contingency of $300,000, for a total not to exceed amount of $1,128,870.10

SUMMARY: This item was reviewed by the District's Planning Committee on February 13, 2025, and referred to the Board for award of a construction contract and execution of professional services agreement for construction management support services during construction.

The Pine Mountain Tanks Phase 2 Project will construct two (2) two-million gallon tanks on Concrete Pipe Road located on District Watershed land near the Town of Fairfax. The construction of the pre-stressed concrete tanks will take four years to complete, involving extensive submittal review, request for information (RFI), and contractor and subcontractor coordination thus requiring a substantial time commitment to coordinate and successfully complete this phase of the Project. In support of this Project, staff issued a request for proposals (RFP) from qualified construction management firms to support the construction management through completion of the Project.

DISCUSSION: The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. The Pine Mountain Tunnel is an 8,700-foot long tunnel built in 1919 to convey and treat water from Alpine Lake to San Rafael and the Ross Valley, now known as the Ross Valley System, which serves 44,000 District customers or roughly 23% of the District's service area. Due to regulatory constraints, the District abandoned the tunnel as a conveyance system in 1971, but retained the tunnel to provide storage (approximately 3 million gallons) and surge protection. The tunnel is well beyond its useful life. The District is in regular

communication with the State Water Resources Control Board regarding the District's progress for the tunnel's decommissioning and replacement.

As part of the Water System Master Plan, the District and its consultant, Woodard & Curran (Consultant), conducted a focused evaluation of the storage needed to replace Pine Mountain Tunnel and support the larger Ross Valley System, including a detailed review of the previous studies and assumptions to improve storage capacity and reliability in the Ross Valley System. A sizing study for the Ross Valley System determined the appropriate sizing of four million gallons for the storage needed to replace Pine Mountain Tunnel and elevations to achieve the District's standard criteria for pressure zone sizing. Project siting alternatives were developed, with sites including locations that were previously evaluated as well as new potential storage site locations. The preferred project location for a storage facility to replace Pine Mountain Tunnel that best met the District's needs was identified on Concrete Pipe Road near drainage culvert No. 5, also known as "CP5".

On December, 14, 2021, the Board approved a resolution adopting the Final Initial Study/ Mitigated Negative Declaration for the Pine Mountain Tunnel Tanks Replacement Project and approved the Pine Mountain Tunnel Tanks Replacement Project. On January 4, 2022, the Board of Directors authorized the General Manager to execute an amendment to the contract with the Consultant for the final design package and bidding support services for the Project. The Consultant completed the final design of the first phase of the Project and supported staff during the advertisement and construction of the first phase. The first phase of the Project involving the earth grading and construction of a soil nail wall was completed in January 2025. The Consultant completed the final design for the second phase of the Project, and the District advertised the project on January 30, 2025. It's important to note that the second phase of the Project will continue to have construction seasons between August 1 through January 31 to protect the Northern Spotted Owl nesting season, which spans between February 1 and July 31.

On March 4, 2025, the District received and opened two (2) bids, as shown in Table 1, for the Pine Mountain Tanks Phase 2 Project, which involves the construction of two (2) two-million gallon pre-stressed concrete water storage tanks, yard system piping, final site drainage improvements and backfill. Azul Works Incorporated submitted the lowest responsive and responsible bid in the amount of $19,142,500.

Table 1
Bid Results
Pine Mountain Tanks Phase 2 Project

Bid Rank	Contractor Name	Bid Amount
1.	**Azul Works Inc.**	**$19,142,500**
2.	**Thompson Builders Corp.**	**$21,505,195**

Engineer's Estimate: $17,810,000

Recognizing the 4-year construction period and complexity of the Phase 2 Project construction, Staff identified that additional outside resources would be necessary to successfully manage and execute this second phase of the Project.

The scope of the proposed construction management and administration services contract solicited under the RFP includes preparing and leading construction meetings, providing document management system for all project documentation, processing and logging contractor correspondence including submittals and RFIs, reviewing proposed change orders, issuing field directives and notices of non-compliance, reviewing payment requests, preparing progress payments, and supporting public communications.

Given the compressed construction window and multiyear construction timeframe, construction will be occurring at a high level of production each season to ensure timely completion of the Project. Having an experienced construction management team supporting Project construction will help ensure that the District can successfully complete this Project on time and within the budget. On February 21, 2025, staff received one proposal from Park Engineering Inc. and conducted an interview. Park Engineering demonstrated a highly-capable team of construction management professionals with decades of experience in large-scale public infrastructure projects. The proposed construction management team has also had a successful long-term history of working with local agencies in Marin County. The proposal was responsive to the Request for Proposals, demonstrating their understanding of the many project complexities such as the multi-year construction phasing, environmental regulations, and the detailed and accurate documentation and record-keeping required for larger more complex capital construction projects.

The Park Engineering team will work collaboratively with District staff to ensure successful progression and timely completion of the project. The construction management scope of work includes but is not limited to: (1) primary construction management and coordination, (2) document management, (3) progress payment and change order tracking and negotiations, (4) claims management and negotiation, and (5) project closeout.

Staff recommends that the Board of Directors approve a resolution awarding Contract No. 2012 to Azul Works Incorporated in the amount of $19,142,500 and authorize the General Manager to execute any necessary amendments to Contract No. 2012, which do not exceed $1,960,000. Staff further recommends the Board authorize the General Manager to execute professional services agreement MA-6406 with Park Engineering, Inc. for construction management services in support of the Pine Mountain Tanks Phase 2 Project in an amount of $828,870.10, with a staff requested contingency of $300,000, for a total not to exceed amount of $1,128,870.10.

Summaries of the estimated Phase 2 Project costs and schedule are provided below.

Budget:

Contract Award:	$19,142,500
Contract Contingency (10%):	$1,920,000
Construction Management (4%):	$828,870.10
CM Contingency:	$300,000
Construction Engineering Services:	$450,000
Testing & Geotech:	$100,000
District Labor/Inspection:	$447,000
Total Budget:	$23,188,370.10

Budget Category: A1A11

Project Implementation:

Project Advertisement:	January 30, 2025
Bid Opening:	March 4, 2025
Project Award:	March 18, 2025
Estimated Completion Date:	January 31, 2029
Duration:	730 days over four years

ENVIRONMENTAL REVIEW: On December 14, 2021, the Board of Directors adopted the Final IS/MND for the Pine Mountain Tunnel Tanks Replacement Project and approved the project conditioned upon completion of the Mitigation Monitoring and Reporting Program (MMRP) for the project. Staff will assure compliance with the MMRP.

FISCAL IMPACT: The total cost to complete Phase 2 of the Pine Mountain Tunnel Tanks Project is estimated at $23,188,370.10, which has been identified in the Capital Improvement Program budget.

ATTACHMENT(S):

1. Proposed Resolution
2. Site Map

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Engineering	**Alex Anaya** **Engineering Director**	**Ben Horenstein** **General Manager**

MARIN MUNICIPAL WATER DISTRICT

RESOLUTION NO.

A RESOLUTION OF THE BOARD OF THE MARIN MUNICIPAL WATER DISTRICT APPROVING AWARD OF CONSTRUCTION CONTRACT NO. 2012 TO AZUL WORKS INCORPORATED FOR PINE MOUNTAIN TANKS PHASE 2 PROJECT

WHEREAS, on December 14, 2021, the Board of Directors adopted the Final IS/MND for the Pine Mountain Tunnel Tanks Replacement Project and approved the project conditioned upon completion of the Mitigation Monitoring and Reporting Program MMRP); and

WHEREAS, on January 30, 2025, the District advertised Contract No. 2012, Pine Mountain Tanks Phase 2 Project (D21043), which will construct two (2) two-million gallon tanks on Concrete Pipe Road located on District Watershed lands; and

WHEREAS, the District received and publicly opened two (2) bids on March 4, 2025, of which the Azul Works Incorporated bid $19,142,500 was the lowest responsive and responsible bid.

NOW, THEREFORE, THE BOARD OF DIRECTORS RESOLVES THAT:

1. The bid of $19,142,500 submitted by Azul Works Incorporated for the Pine Mountain Tanks Phase 2 Project (Project) under Contract No. 2012 ("Contract") was the lowest responsive and responsible bid submitted therefor, and said bid is hereby accepted.

2. A Contract for this Project be awarded to said low bidder, and the General Manager is authorized and directed to execute said Contract on behalf of the District upon receipt of a performance bond, payment bond, proof of insurance, and the executed contract for the work from said bidder.

3. The General Manager is authorized to execute any and all future amendments to the Contract, which he deems necessary, without further Board approval, so long as those amendments to the Contract do not exceed $1,920,000.

4. Upon complete execution of said Contract, the bonds and/or checks of the other bidders are to be returned to said other bidders, and all bids other than that of the Azul Works Incorporated are to be rejected.

PASSED AND ADOPTED this 18th day of March, 2025, by the following vote of the Board of Directors.

AYES:

NOES:

ABSENT:

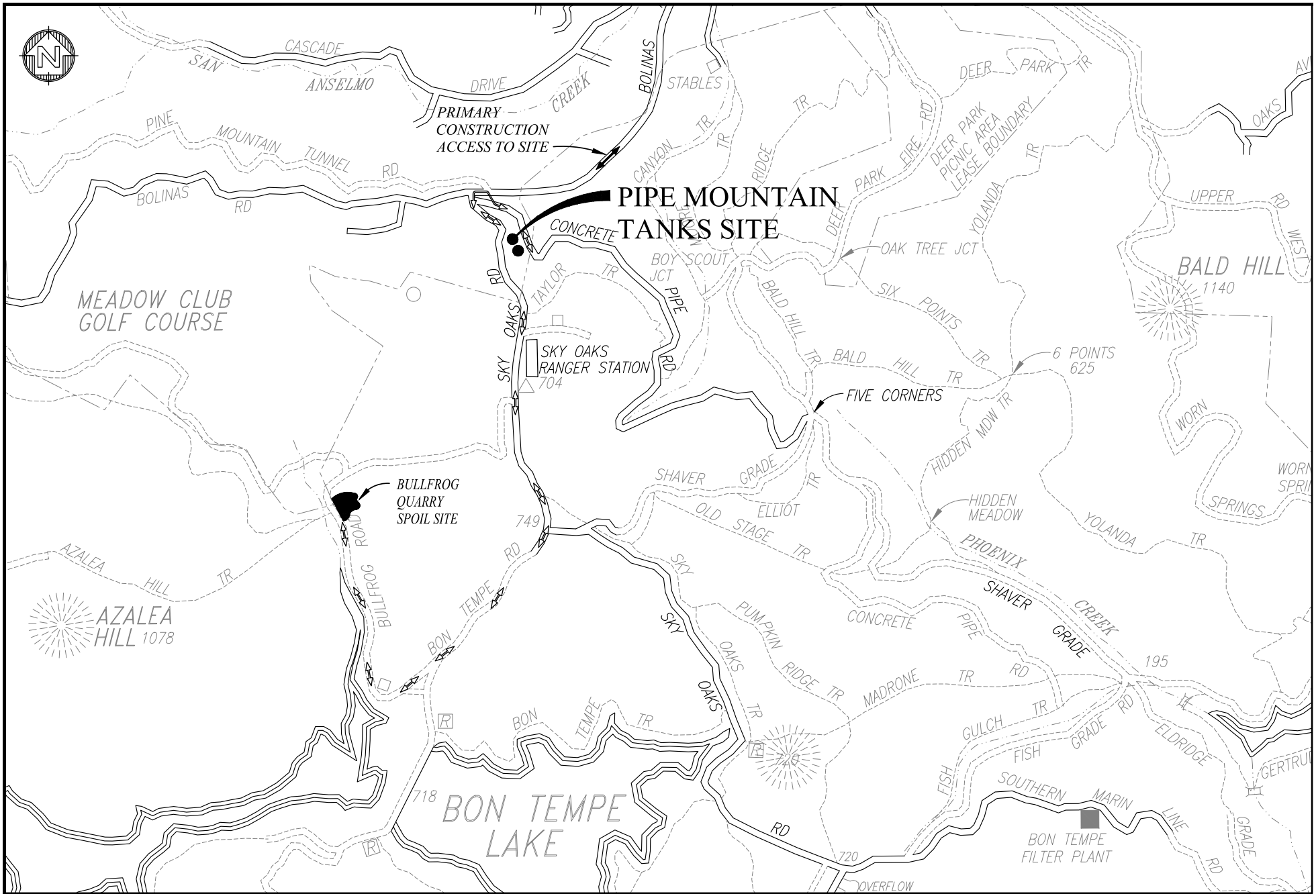
_____

Matt Samson
President, Board of Directors

ATTEST:

_____

Terrie Gillen
Board Secretary


PIPE MOUNTAIN TANKS SITE
PRIMARY CONSTRUCTION ACCESS TO SITE
BULLFROG QUARRY SPOIL SITE
SKY OAKS RANGER STATION
704
FIVE CORNERS
6 POINTS
625
OAK TREE JCT
BOY SCOUT JCT
MEADOW CLUB GOLF COURSE
BALD HILL
1140
AZALEA HILL
1078
BON TEMPE LAKE
718
720
749
195
BON TEMPE FILTER PLANT
OVERFLOW
CASCADE
SAN ANSELMO
DRIVE
CREEK
BOLINAS
STABLES
PINE MOUNTAIN TUNNEL RD
BOLINAS RD
CANYON TR
RIDGE TR
DEER PARK FIRE RD
DEER PARK PICNIC AREA LEASE BOUNDARY
DEER PARK TR
OAKS AV
YOLANDA TR
UPPER RD WEST
CONCRETE PIPE
SKY OAKS RD
TAYLOR TR
BALD HILL TR
SIX POINTS TR
HIDDEN MDW TR
WORN SPRINGS
SHAVER GRADE
OLD STAGE
ELLIOT TR
HIDDEN MEADOW
PHOENIX
YOLANDA TR
BULLFROG ROAD
AZALEA HILL TR
BON TEMPE RD
SKY OAKS TR
PUMPKIN RIDGE TR
MADRONE TR
SHAVER GRADE CREEK
CONCRETE PIPE
GULCH TR
FISH GRADE RD
ELDRIDGE
SOUTHERN MARIN LINE RD
GRADE RD

STAFF REPORT

Meeting Type:	Board of Directors
Title:	Adjustment of District Capacity Charges and consider Revised Board Policies No. 12 and 27 related to the collection of Capacity Charges
From:	Bret Uppendahl, Finance Director
Through:	Ben Horenstein, General Manager
Meeting Date:	March 18, 2025

TYPE OF ITEM: X Action Information

RECOMMENDATION: 1) Adopt Ordinance No. 469 amending various provisions of the Marin Municipal Water District Code Pertaining to Capacity Charges (currently referred to as "Connection Fees"); 2) Adopt a Resolution Updating District Capacity Charges; 3) Approve revisions to Board Policy 12 (*Low Income/ Affordable Housing*) and Board Policy 27 (*Capacity Charge Installment Plan & Deferred Payment of Charges for Qualifying Affordable Housing Projects*)

SUMMARY: Capacity charges, also referred to as connection fees, are one-time charges paid by new customers in order to connect a new water service to the District's water system. Capacity charges are also paid by existing customers who have changes in property use that require increased water capacity to meet the water service's needs. The charge is levied to recover costs for the District's water system capacity needed to meet the demands of new customers or increased demand of existing customers. These charges do not include service installation fees, which recover the costs of the physical piping and water meter as well as installation and labor.

District staff worked with Bartle Wells Associates, an independent public financial advisory firm, to evaluate the District's current capacity charge methodology and to develop updated capacity charges, which were last updated in 2018. District staff previously presented updates on the Capacity Charge Study to the Finance and Administration Committee on August 22, 2024 and again on October 24, 2024.

Based on its review and discussions with District staff, Bartle Wells Associates prepared a Capacity Charge Study for the District identifying proposed updated charges, which study evaluating the proposed charges was posted on the District's website on March 4, 2025. Staff will present to the Board of Directors for adoption proposed District Code changes, proposed Resolution updating the District's capacity charges as well as proposed revisions to two Board policies related to the collection of the District's capacity charges.

DISCUSSION: The District's capacity charge was last updated in 2018 and is currently $44,098 per acre-foot of estimated water demand. Under the current capacity charge methodology, single-family customers' capacity charges currently vary based upon the estimated water usage within their area. Multi-family residential developments are assigned a portion of an acre-foot for each living unit; irrigation customers' water use is estimated through a landscape review process; and other customer classes' water usage is calculated based upon estimated water use for the specific business or development type.

The District worked with Bartle Wells Associates, an independent public financial advisory firm, to evaluate the District's current capacity charge methodology. The key objectives of the Bartle Wells Capacity Charge Study were to proportionally recover the reasonable costs of water system infrastructure that benefit new or expanded water connections in a manner that is consistent with industry standards and compliant with legal requirements. The legal framework for capacity charges is governed by Government Code Section 66000 *et seq.*, which prohibits local agency water capacity charges from exceeding the estimated cost of providing service for which the fee or charge is imposed. Within this framework, also referred to as the Mitigation Fee Act, public agencies can recover costs for existing or future facilities necessary to meet the new or increased water demands placed on the system.

Based on the results of the Capacity Charge Study, staff is recommending continued use of the current Buy-In methodology, with revisions to the facility valuation methodology to include replacement costs less depreciation for purposes of determining the overall costs to be allocated to new and increased service connections. Staff is also proposing the District calculate capacity charges using meter equivalent units (MEU's) that are based on the size of customer water meters.

Bartle Wells recommends that the District continue to use a Buy-In Method to calculate capacity changes. This method is typically used by agencies, such as the District, with water systems that are substantially built-out and where there is sufficient capacity in the existing system to serve current and future customers. Using this method, charges are calculated based on the value of existing facilities divided by the capacity of the water system to create a cost per unit of capacity.

Replacement Cost New Less Depreciation (RCNLD) accounts for the Replacement Cost of infrastructure in current dollars but adjusts those costs to account for accumulated depreciation and age of facilities. As detailed in the Capacity Charge Study, Bartle Wells Associates found that this approach best reflects the value of the remaining useful life of the District's infrastructure. Where appropriate and to most accurately reflect the remaining value of District assets, existing depreciated asset valuations were escalated by the Engineering News-Record (ENR) Construction Cost Index, the Bay Area Consumer Price Index (CPI), or actual costs from similar, recent construction projects.

The recommended change to MEU's uses the meter size as a proxy for determining the potential demand on the water supply and distribution system. The use of MEU's is consistent with industry standards, established by the American Water Works Association (AWWA) M1 Manual, and is a well-established method for proportionally allocating costs, as the meter size accounts for the full demand available to each customer. This proposed methodology change better reflects that water meters of the same size place similar demands on available water system capacity regardless of how much water is ultimately used by the customer and that all water systems must be sized to meet the peak demand of their customers.

Currently, as discussed above, new single-family residential customers are charged a capacity charge based on the projected water use within their local area. This results in varied capacity charges ranging from $4,851 to $89,519, with the median charge of $10,584. The recommended change to MEU's will establish a single charge of $16,740 for all single-family and duplex water connections with a meter size of up to 1 inch. Due to current plumbing code standards, many single family and duplex customers are required to install fire sprinklers, which requires at least a one inch water meter, when constructing a new structure or remodeling an existing one, even though most of these structures could be served with a 5/8 inch water meter and are anticipated to have similar demands to other single family and duplex residences with 5/8 inch water meters. Thus, in order to avoid disproportionately charging these residential services for the rare, if ever utilized, fire flow capacity and to ensure that these customers are only charged capacity charges for their normal maximum demand on the system, these customer classes (single-family residential and duplexes) will be charged the 5/8 inch water meter capacity charge for all water meters 1 inch and smaller. Single family and duplex water meters larger than 1 inch will be required to pay the standard capacity charge for the corresponding water meter size.

Similarly, new non-residential customers currently pay capacity charges based on the projected water use of the specific customer. The recommended change to MEU's will standardize the capacity charges for each water meter size, ranging from $16,740 for 5/8-inch meters to $3,348,000 for 10-inch meters. It should be noted that over half of the District's non-residential customers have meters that are 1-inch or smaller. Additionally, transitioning to MEUs for the calculation of these customers' capacity charges will eliminate the need for District staff to calculate a water entitlement for these customers. However, staff will continue to calculate a water budget and corresponding baseline utilizing current methodologies to be used for these customers' water rate billing purposes. This will ensure these customer classes do not experience any change to the water rates that they would pay as a result of the capacity charge revisions.

The capacity charges for each meter size are calculated using the following process. One Meter Equivalent Unit (MEU) represents the capacity needed to serve a connection with a 5/8-inch meter. As outlined in the AWWA M1 Manual, 1 MEU also represents the safe maximum operating capacity of a 5/8-inch meter. A one-inch meter has an equivalent ratio of 2.5 MEU's, while a six-inch meter is assigned 70 MEUs. The sum of all MEU's represents the total maximum service capacity of all the District's meters. The total water system capacity is then determined by applying a growth assumption to the existing mix of customer meters since the District water system has sufficient capacity to serve current and future customers. Bartle Wells used the District's Updated 2020 Urban Water Management Plan assumptions to project the total growth in MEU's by 2045. This calculation resulted in a total water system capacity of 95,360 MEUs. Dividing the net system value of $1,596,282,086 by the projected MEU's of 95,360 yields a Capacity Charge per MEU of $16,740.

Junior Accessory Dwelling Units (JADUs) and Accessory Dwelling Units (ADU's) are often exempt from paying capacity charges pursuant to state law and District Code. However, when a JADU or ADU is required to pay capacity charges, it is recommended that those charges be based on each unit's proportionate share of demand as measured by drainage fixture units. The study proposed a charge of $507 per plumbing drainage fixture unit.

Additionally, as outlined in the proposed Resolution staff is recommending that the District account for future construction cost inflation by annually adjusting the proposed water capacity charges, beginning July 1, 2026, based on the annual change in the Engineering News-Record Construction Cost Index.

To implement the proposed capacity charges, Titles 11 and 13 of the District Code require updates, included in proposed Ordinance No. 469, to reflect alignment with industry terminology of "capacity charges" rather than the District's past practice of "connection fees". Additionally, Code changes were needed to reflect that adoption of a meter size based capacity charge would eliminate the need to calculate the annual estimated water use of a property, which historically the District referenced as a water entitlement that determined the capacity charge. However, District staff will continue to calculate a water budget using existing water use standards for non-residential customers for the purposes of billing to ensure that these customer's water rate billings are not impacted by the proposed capacity charge changes.

Additionally, staff identified two Board policies- Board Policy 12 (*Low Income/ Affordable Housing*) and Board Policy 27 (*Capacity Charge Installment Plan & Deferred Payment of Charges for Qualifying Affordable Housing Projects*)- that had not been updated in several years. Therefore, staff took this opportunity to revise these policies to ensure compliance with current legal standards and remove duplicative provisions in the policies.

ENVIRONMENTAL REVIEW: The District currently provides water facilities and supplies water to the community and the water capacity charges shall be used to maintain current service levels and reimburse the District for prior capital expenditures and existing debt service. As such, the Board's adoption of the proposed water capacity charges, as it relates to new water service connections within the District, is exempt from the provisions of the California Environmental Quality Act (CEQA) because the action consists entirely of the establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, or other charges necessary to (1) purchase or lease supplies, equipment or materials, (2) meet financial reserve needs and requirements, and (3) obtain funds for capital projects necessary to maintain service within the District's existing service area. (Public Resources Code § 21080(b)(8); 14 CCR §15273). The Board's adoption of these capacity charges is also exempt from the requirements of CEQA because there is no possibility that their adoption will have a significant effect on the environment. (14 CCR § 15061(b)(3)).

FISCAL IMPACT: All revenues received from capacity charges are deposited in the Capital Fund and are used exclusively to support the Capital Improvement Program. The District currently budgets $600,000 annually in capacity charge revenues. The current median capacity charge of $10,584 for single-family residential customers would increase to $16,740, an increase of approximately 58 percent. Actual revenues will ultimately depend on the level and type of development activity within the District's service area.

ATTACHMENT(S):

1. 2025 Bartle Wells Associates Capacity Charge Study

2. Proposed Ordinance No. 469
3. Proposed Resolution
4. Revised Board Policy 12- *Low Income/ Affordable Housing*
5. Revised Board Policy 27- *Capacity Charge Installment Plan & Deferred Payment of Charges for Qualifying Affordable Housing Projects*

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Finance	**Bret Uppendahl** **Finance Director**	**Ben Horenstein** **General Manager**

Attachment 1

Marin Municipal Water District 2025 Capacity Charge Study

February 28, 2025

BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

MARIN WATER

BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

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Berkeley, CA 94705
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February 28, 2024

Marin Municipal Water District
220 Nellen Avenue
Corte Madera, CA 94925-1169

Attn: Ben Horenstein, General Manager
Bret Uppendahl, Finance Director

Re: Capacity Charge Study

Bartle Wells Associates is pleased to submit the attached *2025 Capacity Charge Study*. The study develops updated capacity charges designed to recover the reasonable costs of water system infrastructure and assets benefitting new or expanded connections that are of proportional benefit to the person or property being charged.

Key objectives of the study included developing new water capacity charges that recover the costs of capacity in District's water system, are less complex and easier to administer than the District's current capacity charges, recover the reasonable costs of system infrastructure required to serve new development in a manner that is proportional to the benefit conferred, are based on industry-standard methodology, and comply with all legal requirements. The updated capacity charges calculated in this report are higher than the District's existing charges but would remain in the middle range compared to capacity charges of other surrounding water agencies.

We enjoyed working with the District on this project and appreciate the collaboration and input received from District staff throughout the capacity charge study. Final recommendations were developed with input from the District's project team, the District's General Counsel's Office and independent legal counsel. Please contact us anytime if you have questions about the recommendations in this report or other related issues.

Sincerely,
BARTLE WELLS ASSOCIATES

Erik Helgeson, MBA
Principal/Vice President

Alex Handlers, CIPMA
Principal/President

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Glossary of Terms

Terms	Descriptions
Active Customer	A service receiving regular water service
AF	Acre foot / Acre feet
AWWA	American Water Works Association
BWA	Bartle Wells Associates
CCF	Hundred Cubic Feet or 748 gallons
CIP	Capital Improvement Projects
COS	Cost of Service
CPI	Consumer Price Index/Indices
CY	Calendar Year
District	Marin Municipal Water District
ENR	Engineering News Record
FY	Fiscal Year (July 1 – June 30)
GPM	Gallons per minute
M1 Manual	"Principles of Water Rates, Fees, and Charges: Manual of Water Supply Practices M1", 7th edition published by AWWA
MEU	Meter Equivalent Unit
MFR	Multi-Family Residential
RCNLD	Replacement Cost New Less Depreciation
Sonoma Water	Sonoma County Water Agency
Service	A connection to the District's water system
SFR	Single Family Residential

1 BACKGROUND, OBJECTIVES, AND LEGAL REQUIREMENTS

1.1 Background

The Marin Municipal Water District is a public utility that provides high-quality drinking water to central and southern Marin County, California. The District's 147-square-mile service area includes the cities and towns of San Rafael, Mill Valley, Fairfax, San Anselmo, Ross, Larkspur, Corte Madera, Tiburon, Belvedere, and Sausalito. Marin Municipal Water District is the first municipal water district in California, formed on April 25, 1912. The District also provides recycled water, primarily for landscape irrigation, to a portion of its service area. The District serves a population of over 191,000 through over 60,000 accounts. The District's water system includes 7 reservoirs, 3 treatment plants, 97 pump stations, 130 storage tanks, and 908 miles of pipelines.

Historically, about seventy-five percent of the District's water supply has come from its 22,000 acres of protected watershed on Mt. Tamalpais and west Marin. Rainfall on the watershed flows into the District's seven reservoirs and is then treated at the District's potable water treatment plants before being delivered to its customers. The remainder of the District's water supply consists of wholesale water purchased from the Sonoma County Water Agency (Sonoma Water) and recycled water purchased from the Las Gallinas Valley Sanitary District (LGVSD). Water from Sonoma Water is stored in Lake Sonoma and Lake Mendocino on the Russian River. Marin Water has a longstanding partnership with LGVSD and helped fund an expansion of their Recycled Water Facility to increase recycled water use. The District also continues to engage in multiple water conservation efforts to reduce customer water demands and preserve supply.

The District levies water capacity charges on new or expanded connections to the water system to recover the reasonable cost of its facilities that are of proportional benefit to the person or property being charged. Capacity charges are one-time fees, paid up-front as a condition of connecting to the water system or change in use that results in an increase in water demand. After capacity charges have been paid and the District initiates water service, new connections become ongoing water service customers and begin paying the District's water rates.

1.2 Study Objectives

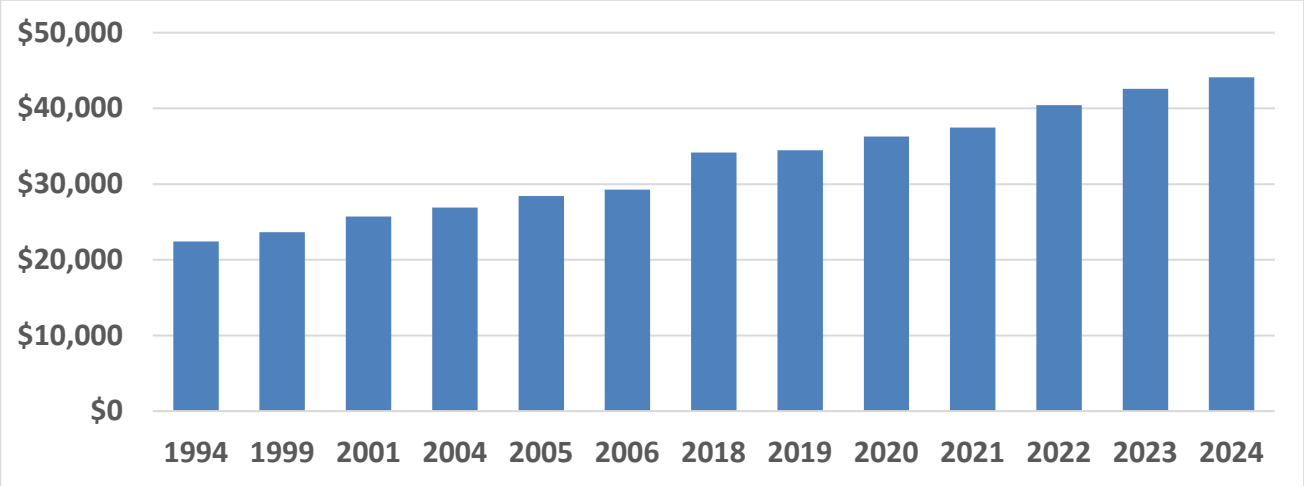
The District retained BWA to develop a water capacity charge study and update the District's capacity charges. Key objectives of the study are to develop new capacity charges that:

- Recover the reasonable costs of water system infrastructure and assets that benefit new or expanded water connection;
- Recover those reasonable costs in a manner that is proportionate to the benefit received by the new or expanded water service connection;
- Are consistent with industry-standard practices and methodologies;
- Are easy to administer; and
- Comply with applicable legal requirements.

1.3 Current and Historic Capacity Charges

The following chart shows a history of the District's capacity charges over the past thirty years. The District has increased its capacity charges over time based on periodic studies coupled with annual adjustments implemented to keep charges aligned with construction cost inflation. The District most-recently completed a capacity charge study in 2018. The District's current capacity charge is $44,098 per acre foot of estimated annual water demand.

Figure 1: District Historical Capacity Charges ($ Per Acre Foot)



As noted, capacity charges are levied based on estimated annual water use multiplied by the capacity charge per AF. The District's existing water demand estimates for each customer class are summarized below:

- **Single-family residential** demand estimates are based on the average water use in the zone where each new connection is located. The District has almost 300 different zones with

average water demands per home ranging between 0.09 AF to 2.03 AF. Capacity charges for new homes range from $4,851 to $89,519 depending on location. Based on connections in recent years, the District estimates that the median charge for a new home is about $10,600.

- **Multi-family residential** water demand is estimated at 0.14 AF per unit resulting in a current charge of $6,174 per dwelling unit.
- **Commercial** water demands are estimated by the District based on a range of water use factors that vary based on business type.
- **Irrigation** water demand estimates are based on a landscape plan review that estimates annual water needs based on factors including irrigable area, irrigation equipment, and type of landscaping.

1.4 Applicable Legal Requirements

Development impact fees are governed by California Government Code Section 66000 *et seq*. These provisions of the Government Code were initially established by Assembly Bill (AB) 1600 and are commonly referred to as the Mitigation Fee Act (Act). Pursuant to the Act, a development impact fee is not a tax or special assessment, but is, instead, a voluntary charge levied to defray the cost of public facilities needed to serve new development.

Capacity charges are not development impact fees, because they are not imposed as a condition of new development. As such, only a small portion of the Act applies to capacity charges, including Section 66013 of the Government Code, which specifically governs water and wastewater capacity charges. This section defines a "capacity charge" to mean "…a charge for public facilities in existence at the time a charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged…" This section distinguishes "capacity charges" from "fees" which are defined as fees for the physical facilities necessary to make a water or sewer connection, such as costs related to installation of meters and pipelines from a new building to a water or sewer main.

According to Section 66013, a water or wastewater capacity charge "shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed" unless approved by a two-thirds vote of the electors. Section 66013 does not detail any specific methodology for calculating capacity charges.

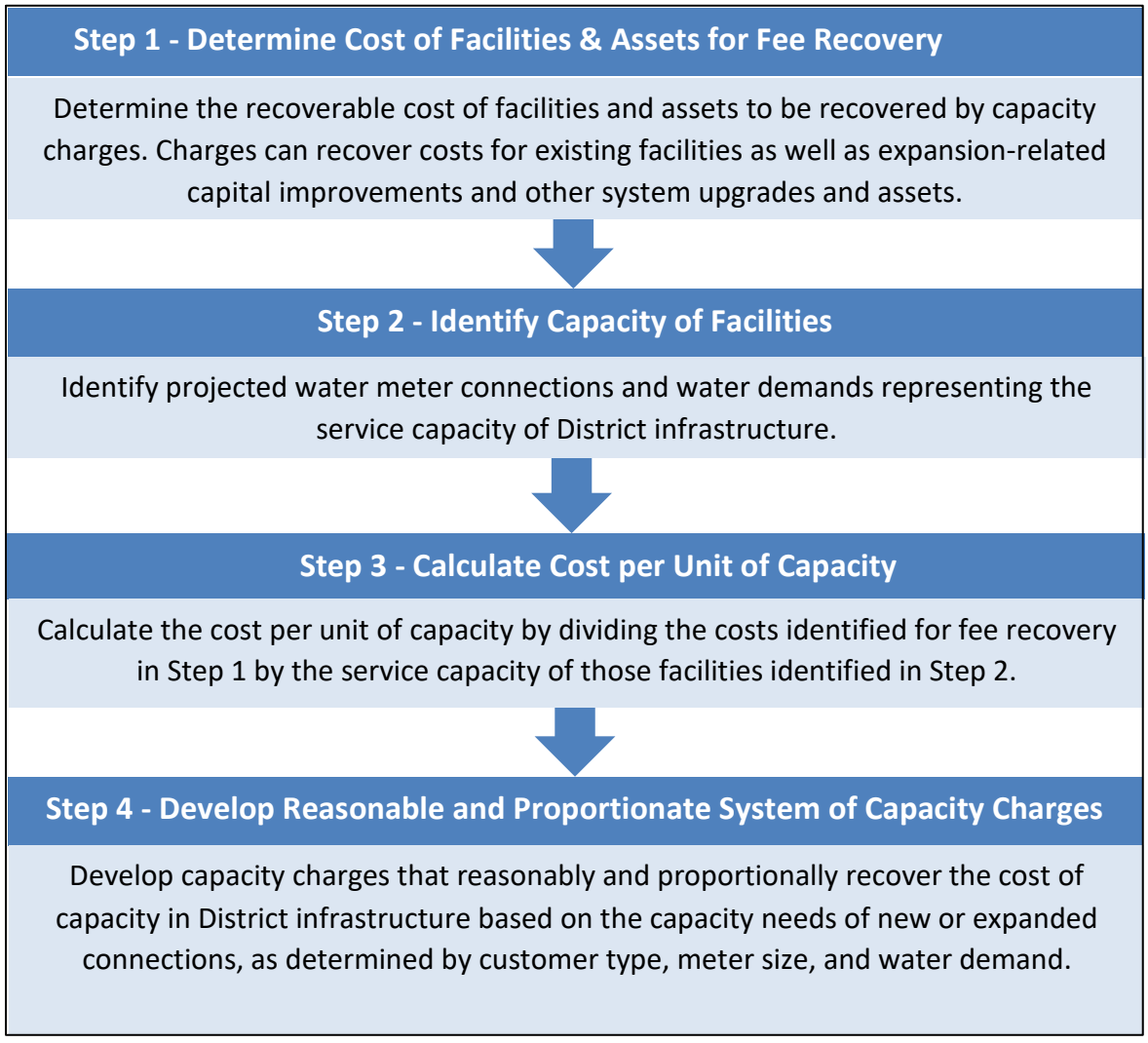
Sections 66016 and 66016.6 of the Government Code identify the procedural requirements for adopting or increasing water and wastewater capacity charges, and Section 66022 summarizes the general process by which the charges can be legally challenged. The full text of Sections 66013, 66016, 66016.6 and 66022 are attached in Appendix A.

2 CAPACITY CHARGE METHODOLOGY

2.1 Fee Methodology

Updated capacity charges are calculated based on the value of the District's water system divided by total projected service capacity in 2045[1]. The general methodology used to calculate updated water capacity charges is summarized below.

Figure 2: Capacity Charge Methodology



[1] Service capacity was derived from the District's Updated 2020 Urban Water Management Plan (January 2024); Available at: https://www.marinwater.org/sites/default/files/2024-01/MMWD%20Updated%202020%20UWMP-%20FINAL-%20January%202024_0.pdf

2.2 Capacity Charge Method Alternatives

There are a number of industry-standard methods for calculating capacity charges. Basic approaches are summarized below:

Buy-In Method (Recommended)

Under this approach, capacity charges are based on the value of existing facilities and assets divided by the capacity of the water system. The buy-in approach is more commonly used by agencies with water systems that are substantially built out and there is sufficient capacity in the existing system such that it is capable of meeting both near-term and long-term capacity needs.

Expansion or Marginal Cost Method

Under this approach, the capacity charge is based on the cost of future, expansion-related capital improvements divided by the corresponding expansion of system capacity associated with those improvements. Charges calculated under this approach represent the marginal cost of adding a unit of expansion. This approach excludes cost recovery for existing facilities and assets that provide benefit to new development.

Buy-In + Expansion Cost or Hybrid Method

Under this approach, the capacity charge accounts for both: a) a buy-in component to recover an equitable share of costs for existing facilities available to serve new development, and b) an expansion component to recover the cost of capacity in future facilities needed to serve projected new development.

Based on evaluation of a range of capacity charge calculation methods and input from the District's project team, BWA recommends calculation of updated capacity charges based on a Buy-In approach as a) the District is substantively built out and the water system has the capacity to support projected growth, and b) this approach maintains consistency with the District's historical method of fee calculation. Furthermore, this methodology reduces the administrative burden on the District's Finance staff as all charges are collected to (1) construct public facilities pursuant to a contract between the local agency and a person or entity, or (2) pay existing debt service or reimburse the local agency for facilities in existence at the time the charges are collected, which exempts the District from the laborious accounting and reporting requirements set forth in Government Code section 66013 (c) and (d).[2] This allows the District to benefit from associated staffing efficiencies, while still maintaining transparency by annually presenting an accounting of these charges in its Comprehensive Annual Financial Report.

[2] See Government Code Section 66013(f)

3 WATER SYSTEM VALUATION AND SERVICE CAPACITY

3.1 Facility Valuation Approaches

There are a number of accepted and widely-used methods for valuing infrastructure and assets for cost recovery via capacity charges as summarized below:

- **Replacement Cost** is an estimate of the cost of replacing existing facilities in current dollars. This can be determined based on engineering cost estimates and actual costs from recent capital improvement projects, or by escalating the original cost of facilities into current dollars to account for cost inflation. The ENR Construction Cost Index is a widely-used index for determining construction cost inflation. This approach leads to the highest system valuation but does not account for depreciation or age of facilities.
- **Replacement Cost New Less Depreciation (RCNLD) (Recommended)** accounts for the Replacement Cost of infrastructure in current dollars but adjusts those costs to account for accumulated depreciation and age of facilities. This approach reflects the value of the remaining useful life of infrastructure.
- **Original Cost** is the cost paid for facilities at the time of acquisition. Valuation approaches based on original cost typically result in low facility valuations as they do not account for cost inflation. Under this approach a pipeline installed in 1940 would be based on the original cost in 1940 dollars and would not reflect that construction costs are about 50 times greater today.
- **Original Cost Less Depreciation** is based on original cost of facilities at time of acquisition reduced to account for accumulated depreciation. This approach results in the lowest facility valuations.

Based on an evaluation of valuation alternatives, the proposed fees are based on the Replacement Cost New Less Depreciation valuation methodology because it a) most accurately reflects the current value of system capacity, b) accounts for the age of the District's infrastructure, and c) is consistent with the District's historical approach.

3.2 Existing System Value

Under the RCNLD methodology used in this report, updated water capacity charges are designed to recover the remaining replacement value of existing water system infrastructure in current dollars.

The following table shows a summary of existing water system infrastructure along with estimates of the replacement value and depreciated replacement value of each type of asset. In order to conservatively estimate system value and to ensure the updated charges are reasonable and proportionate, the value of some assets were excluded from fee recovery including a) assets that may have been paid for by individual customers such as service connections and meters, b) assets with

short service lives such as computers and vehicles, c) the District's cash reserves, and d) grant-funded facilities.

Table 1: Water System Value

Asset Class	Replacement Cost [1]	Depreciated Replacement Cost [2]	System Value for Charge Calculation [3]
Land	$67,951,509	$67,951,509	$67,951,509
Buildings	57,437,829	11,650,674	11,650,674
Dams & Reservoirs	286,004,753	100,348,461	100,348,461
Storage Tanks	158,073,374	67,736,466	67,736,466
Pumping Plants	78,891,061	10,175,695	10,175,695
Water Treatment Plants	123,473,154	16,886,192	16,886,192
Transmission & Distribution [4]	**2,725,447,773**	**1,362,723,886**	**1,362,723,886**
Service Connections	63,009,312	8,146,350	Excluded
Meters	25,136,934	2,601,745	Excluded
Vehicles	12,024,758	1,319,462	Excluded
Equipment	50,417,844	9,141,307	Excluded
Construction in Progress	59,028,871	59,028,871	59,028,871
Equipment	657,785	0	Excluded
Computers	1,749,414	0	Excluded
Tools	9,274	0	Excluded
Water Rights	$30,473,742	$30,473,742	$30,473,742
Cash and Investments	$87,540,289	$87,540,289	Excluded
Total	**$3,827,327,678**	**$1,835,724,651**	**$1,726,975,497**

1) Based on acquisition cost escalated by the change in the ENR construction cost index to the 2024 (land and water rights escalated on the 2024 San Francisco-Oakland-Hayward, CA CPI)
2) Based on depreciated net book value escalated by the change in the ENR construction cost index to 2024 (land and water rights escalated by the 2024 San Francisco-Oakland-Hayward, CA CPI)
3) Supporting data is contained in Appendix B, Tables 6-13
4) Based on replacement cost estimates using recent project costs

The value for all assets except for land, transmission & distribution assets, and water rights were determined by escalating the depreciated accounting book value of each asset escalated into current dollars based on the change in the ENR Construction Cost Index from each asset's acquisition date to the average index for 2024 (most recent published year) because this valuation method was determined to most properly reflect the asset values for those asset classes.

Asset classes where other calculations were used to more accurately reflect reasonable asset values are described as follows:

- **Land** - The value of land is based on original cost escalated by the change in the Consumer Price Index (CPI). The CPI was used to reflect general cost inflation which was determined to be more appropriate than the ENR index, which reflects construction costs. Land is not depreciated as it does not deteriorate or wear out over time.

- **Water Rights** - The value of Water Rights is based on original cost escalated by the change in the CPI. Again, the CPI was used to reflect general cost inflation which was determined to be more appropriate than the ENR index. Water rights were also not depreciated because the value of an annual water supply does not decline over time.
- **Transmission & Distribution Facilities** – The value of transmission & distribution facilities is based on an inventory of existing assets (i.e. pipelines by linear footage) and engineering cost estimates based on the cost of pipeline related capital improvement projects completed by the District in recent years. These costs were adjusted to reflect the average estimated remaining useful life of each type of facility.

  This valuation approach was determined to more accurately reflect the depreciated value of District infrastructure when compared to using accounting system data. For example, accounting system data typically depreciates fixed assets over a shorter time period (generally no more than 30 years) based on accounting standards that do not accurately reflect the actual useful life of facilities. In the District's accounting system this results in many assets, including a substantial amount of pipelines, having a depreciated book value of zero despite still being in service and in most cases having many years of remaining useful life as implementation of modern corrosion control and maintenance activities typically results in a useful life about 100 years for pipelines. This valuation method ensures that the remaining useful life of these assets is accurately reflected and actual replacement costs from recent pipeline projects are utilized rather than estimates.

The following tables show the calculations used to determine the RCNLD valuation of various facilities based on estimates of replacement cost and remaining useful life.

Table 2: Estimated Distribution System Remaining Life Replacement Cost

Distribution System Replacement Cost

Pipe	Pipe Length	Pipe Length	Replacement Cost [1]	Total Replacement Cost
	Miles	*%*	*$ per Mile*	*$*
Total	908	100.0%	$3,000,000	**$2,725,447,773**

Total Replacement Cost	Weighted Avg. Age	Useful Life [2]	Life Remaining	Depreciated Replacement Cost
$2,725,447,773	50	100	50%	**$1,362,723,886**

[1] Replacement cost based on recent projects which are shown in Table 4 of Appendix B. Weighted average age based on GIS asset data acquisition date and pipe length is shown in Table 3 of Appendix B.
[2] District Engineering staff deem pipes to have a typical useful service life of 100 years. The District has an ongoing corrosion control program that employs cathodic protection, which draws corrosive processes away from pipelines, as a cost-effective way to extend the life of distribution piping.

3.3 Net System Value

In order to calculate the net system value used for the calculation of the capacity charges, the system value is reduced to account for the amount of remaining unpaid principal on outstanding debt owed by the District. This adjustment ensures that the updated charges do not recover costs that have not yet been paid by the District.

Table 3: Net System Value

Net System Value	Amount
System Value	$1,726,975,497
Less Outstanding Principal	($130,639,411)
Net System Value	$1,596,282,086

3.4 Water System Capacity

The updated capacity charges developed in this report account for projected water system service capacity through buildout in 2045 as determined by the number of projected meter equivalent units (MEUs). An MEU represents the capacity needed to serve a connection with a 5/8-inch meter. BWA recommends using projected service capacity as a basis for the updated capacity charge calculations because the District anticipates serving additional MEUs and the existing water system has available capacity to serve connections in excess of current customer demands. Service capacity in 2045 approximates system buildout, the maximum capacity that will be served by the existing system.

The following table shows projected population growth in the District through buildout in 2045 based on projections developed in the District's Updated 2020 Urban Water Management Plan (UWMP).

Table 4: Projected Population Served

Year	2025	2035	2040	2045
Population	202,510	223,251	227,005	230,996
Percent Increase relative to 2025		10.24%	12.10%	14.07%

Source: Updated MMWD 2020 Urban Water Management Plan (January 2024)

Table 5 projects the number of MEUs that will be served by the District through buildout based on the current number of MEUs served by the District escalated by the projected percentage increase in District population through 2045 as identified in the Updated 2020 UWMP.

Larger meters have the potential to use more of the water system's capacity compared to smaller meters. The potential capacity demanded by each meter is proportional to the maximum hydraulic flow through each meter size as established by AWWA's hydraulic capacity ratios. The hydraulic capacity ratios (also known as meter equivalents) used in this report are shown in Table 7.

As noted previously, one (1) MEU represents the safe maximum operating capacity of a 5/8-inch meter. The capacity of each meter can be expressed in terms of MEUs by dividing the safe maximum operating capacity of a given meter size by the comparable capacity of a 5/8-inch meter, which is 20 gallons per minute (gpm). For example, a 1-inch meter with a safe maximum operating capacity of 50 gpm will have a meter equivalent ratio of 2.5 MEUs. The sum of all MEUs represents the total maximum service capacity of all of the District's meters.

Based on updated plumbing code requirements, Single Family and Duplex connections are typically required to install 1-inch meters to accommodate fire flows even though the underlying water demand from these connections is similar to the demand from existing homes served by 5/8-inch meters. As such, Single Family and Duplex connections with meter sizes up to 1-inch are assigned 1 MEU and will pay the same capacity charge as a new connection with a 5/8-inch meter, while MEUs assigned to other meters are based on the safe maximum operating capacity of the District's standard replacement meter at each meter size.

The following table contains the counts of water services and calculations of meter equivalent units. Total meter equivalent units at each meter size are derived by multiplying the meter equivalent ratio by the number of services at each meter size. The number of equivalent meters is used as a proxy for the potential demand that each customer can place on the water system. The District must be able to meet the capacity demands of all its customers. A significant portion of a water system's peak capacity and, in turn, the District's fixed capital costs, is related to meeting system capacity requirements. Therefore, the capacity charge for a new water connection will be proportional to the service's meter equivalence.

Table 5: Current and Projected Meter Equivalent Units

	Meter Size										
Meter Equivalent Units	**5/8 "**	**3/4 "**	**1 "**	**1 1/2 "**	**2 "**	**3 "**	**4 "**	**6 "**	**8 "**	**10 "**	**Total**
Single Family and Duplex Customers											
Single Family	36,978	3,816	10,667	638	28	0	0	0	0	0	52,127
Duplex	1,227	109	242	13	2	0	0	0	0	0	1,593
Total Meters	38,205	3,925	10,909	651	30	0	0	0	0	0	53,720
Meter Equivalent [1]	1.0	1.0	1.0	5.0	8.0						
Meter Equivalent Units	**38,205**	**3,925**	**10,909**	**3,255**	**240**						**56,534**
All Other Customer Classes (Except Raw Water and Private Fire Lines)											
Triplex	331	52	332	58	4	0	0	0	0	0	777
Medium Apt.	102	20	365	279	23	1	1	0	0	0	791
Large Apt.	14	4	67	383	179	21	2	0	0	0	670
Institutional	56	6	45	50	52	30	7	5	2	0	253
Business	1,734	154	785	493	205	30	21	8	2	0	3,432
Irrigation	321	71	351	297	96	11	4	5	0	0	1,156
Recycled	6	3	129	134	65	1	5	0	0	0	343
Residential Irrigation	14	2	21	6	1	0	0	0	0	0	44
Total Meters	2,578	312	2,095	1,700	625	94	40	18	4	0	7,466
Meter Equivalent [2]	1.0	1.5	2.5	5.0	8.0	20.0	40.0	70.0	135.0	200.0	
Meter Equivalent Units	**2,578**	**468**	**5,238**	**8,500**	**5,000**	**1,880**	**1,600**	**1,260**	**540**	**0**	**27,064**
2024 Total Meter Equivalent Units											**83,598**
Projected 2045 Meter Equivalent Units [3]											**95,360**

1) New Single Family and Duplex connections are typically required to have 1” connections to accommodate fire flow and are assigned 1 MEU per connection as they have the same underlying demand as current customers with 5/8-inch meters. Single Family and Duplex connections with meters greater than 1" assigned MEUs based on meter size consistent with other customers.

2) Meter equivalent based on maximum safe flow of the standard meters used by the District for new connections and replacement meters relative to that of a 5/8" meter.

3) Escalated by the population growth estimate from 2025 to 2045 in the Updated MMWD 2020 UWMP (January 2024)

4 CAPACITY CHARGE CALCULATION

4.1 Unit Cost of Capacity

Updated capacity charges are calculated based on the net value of the District's water system divided by total projected service capacity through 2045. This results in a unit cost per MEU of annual water demand as shown on the following table.

Table 6: Unit Cost of Capacity Calculation

Unit Cost of Capacity	Amount
Net System Value	$1,596,282,086
Projected 2045 MEUs	95,360
Capacity Charge per MEU	**$16,740**

4.2 Capacity Charge Derivation

Updated capacity charges are calculated based on MEUs. New Single Family and Duplex connections are typically required to have 1 inch meters to accommodate fire flow and are assigned 1 MEU per connection as they have the same underlying demand as current customers with 5/8-inch meters.

All other connections are assigned MEUs and pay corresponding capacity charges based on meter size. For example, a new commercial connection with a 2-inch meter, which has 8 times the capacity of a base 5/8 inch meter, would pay a capacity charge corresponding with 8 MEUs. Capacity charges for single family homes and duplexes with meters larger than 1-inch are also based on meter size and corresponding capacity in MEUs.

Table 7: Capacity Charge Derivation by MEU

Capacity Charge by MEU	MEU	Proposed Capacity Charge
Single Family & Duplex Connections Up to 1" Meter [1]	1.0	**$16,740**
Meter Size		
5/8 "	1.0	**$16,740**
3/4 "	1.5	**$25,110**
1 "	2.5	**$41,850**
1 1/2"	5.0	**$83,700**
2 "	8.0	**$133,920**
3 "	20.0	**$334,800**
4 "	40.0	**$669,600**
6 "	70.0	**$1,171,800**
8 "	135.0	**$2,259,900**
10 "	200.0	**$3,348,000**

1) New Single Family and Duplex connections up to 1" are considered to have a MEU of 1. New Single Family and Duplex customers with a meter size greater than 1" shall be assessed a capacity charge based on the corresponding meter size in the table above.

Note: MEU = Meter Equivalent Unit

4.3 Capacity Charges for Accessory Dwelling Units

Junior Accessory Dwelling Units and Accessory Dwelling Units (collectively "ADUs" herein) are generally defined as secondary independent residential dwelling units located on a residential property and may include a) second units within or attached to the living area of an existing primary residence, and b) detached accessory dwelling units. Public agencies can levy capacity charges on ADUs built with construction of a new home. However, there are limitations on agencies' authority to levy capacity charges on ADUs built within or on site of an existing home. California Government Code Section 66324 governs accessory dwelling units and includes the following requirements regarding water and sewer capacity charges for ADUs:

- ADUs within the living area of an existing primary residence shall not be considered to be a new residential use for the purposes of calculating connection fees or capacity charges for utilities, including water and sewer service. Hence, the District may not levy capacity charges on ADUs that meet the requirements of the Government Code and are constructed within the living area of an existing primary residence. To be considered within the living area of a primary residence, the Government Code permits an expansion of not more than 150 square feet beyond the same physical dimensions as the existing accessory structure.

- Detached ADUs, or attached ADUs with over 150 square feet expansion of a primary residence may require a new or separate utility connection directly between the accessory dwelling unit and the utility. Consistent with Section 66013, the connection may be subject to a connection fee or capacity charge that shall be proportionate to the burden of the proposed accessory dwelling unit, based upon either its square feet or the number of its drainage fixture unit (DFU) values, as defined in the Uniform Plumbing Code adopted and published by the International Association of Plumbing and Mechanical Officials, upon the water or sewer system.

In compliance with Section 66324, the capacity charges for ADUs eligible to pay such charges are proposed to be calculated based on the DFU values of each ADU. The charge per DFU is based on the proposed standard capacity charge for a Single Family or Duplex with a meter up to 1-inch (1 MEU) divided by 33 DFUs, which represents the number of plumbing fixture units in a typical single-family home in the District. As such, each ADU will pay a capacity charge based on its proportionate share of demand as measured by drainage fixture units. The following table shows the derivation of the ADU capacity charge.

Table 8: ADU Capacity Charge Derivation

ADU Capacity Charge Derivation	Unit
Proposed Single Family Capacity Charge	$16,740
Single Family Median Drainage Fixture Units*	33.0
ADU Capacity Charge per Drainage Fixture Unit	**$507**

*Median number of drainage fixture units based on 91 project information forms submitted to the District between May and August 2024

4.4 Proposed Capacity Charges

Capacity charges can be levied on new connections to the water system and can also be applied to existing connections that increase water demand. In cases where a capacity charge is levied due to increased meter size or demand, the capacity charges should be based only on the incremental increase in demand reflected by the difference between the capacity charges in effect for the existing meter and the upsized meter. The following table shows a schedule of proposed capacity charges.

Table 9: Proposed Capacity Charges

Connection Type	Proposed Capacity Charges
Single Family & Duplex up to 1" [1]	**$16,740**
Single Family or Duplex connections with meter size up to 1"	
Accessory Dwelling Units (ADU) [2]	**$507**
Charge per plumbing drainage fixture unit (when applicable)	
All Other Connections *by Meter Size*	
Meter Size	
5/8"	**$16,740**
3/4"	**$25,110**
1"	**$41,850**
1 1/2"	**$83,700**
2"	**$133,920**
3"	**$334,800**
4"	**$669,600**
6"	**$1,171,800**
8"	**$2,259,900**
10"	**$3,348,000**

1) Single Family and Duplex customers with a meter size greater than 1" shall be assessed a capacity charge based on the corresponding meter size set forth in "All Other Connections" above

2) ADU capacity charge applies pursuant to Government Code and District Code, when applicable

4.5 Comparison of Existing and Proposed Capacity Charges

The following table shows a comparison between existing and proposed capacity charges.

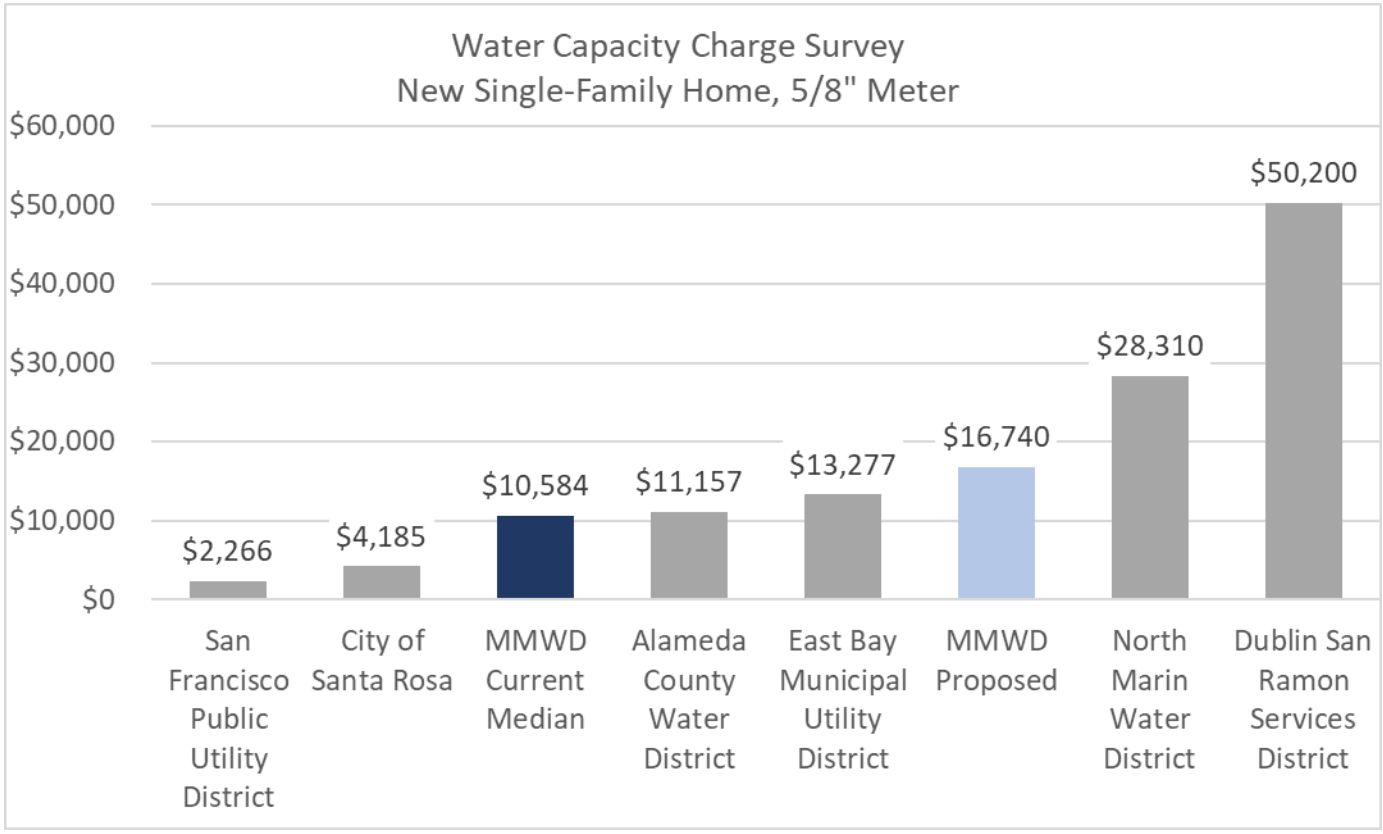
Table 10: Comparison of Existing and Proposed Single Family & Duplex Capacity Charges

Capacity Charge Comparison	Current	Proposed
Single Family & Duplex		
Lowest Fee Zone	$4,851	$16,740
Median Single Family	$10,584	$16,740
Highest Fee Zone	$89,519	$16,740

4.6 Single Family Residential Water Capacity Charge Survey

The following chart shows a survey of regional water capacity charges for a typical new single-family home. With the proposed charges, the District's water capacity charge for a new single-family home would be higher than the current residential average charge but would remain in the middle range compared to surrounding water agencies.

Figure 3: Single Family Residential Water Capacity Charge Survey



5 APPLICATION OF CAPACITY CHARGES & RELATED ISSUES

This section highlights some key issues regarding the application and implementation of the updated capacity charges and also identifies some related issues for District consideration.

Capacity Charge Resolution/Ordinance: Purpose of Fee

Pursuant to the Government Code, revenues derived from the District's capacity charges can only be used for the purpose for which the charges are collected. In order to maximize flexibility for use of capacity charge revenues, BWA recommends that the ordinance or resolution adopting the new capacity charges broadly define the purpose of the charge, such as to recover a proportionate share of costs for capacity in water system infrastructure and assets.

Use of Capacity Charge Revenues and Accounting & Reporting Requirements

The proposed capacity charges recover costs for buying into existing District water system infrastructure and assets. As such, revenues derived from the updated capacity charges represent a reimbursement for previously-funded facilities. Hence, the capacity charge revenues represent reimbursements that can be used not just for expansion, but also to help fund rehabilitation and replacement of existing infrastructure. As discussed previously, the use of the buy-in methodology exempts the District from the accounting and reporting requirements set forth in Government Code Section 66013 (c) and (d). However, it is recommended that the District continue to maintain its practice of including an annual accounting of the capacity charges collected within its Comprehensive Annual Financial Report (CAFR) or utilize another equivalent method to regularly inform District staff and the public of capacity charge revenues and expenditures to promote transparency and public trust.

Credits Toward Expanded Water Use

Capacity charges for redevelopment projects should be based on the incremental water demand generated from each project based on the District's capacity charges in effect at the time of fee calculation. As such, the capacity charges for a redevelopment project would be calculated based on a) capacity charges applied to the new redevelopment project, less b) a credit for capacity charges (for the existing meter size under the current schedule) for the capacity currently in place to ensure the redevelopment only pays for the increase in capacity charges associated with the increased meter size capacity needs associated with their redevelopment project. However, the District would be under no obligation to ever provide any refund in cases where a redevelopment project results in a decrease in water demand.

Other Developer Infrastructure Funding Requirements

Payment of capacity charges does not exempt a developer from having to fund the upsizing of infrastructure in cases where existing infrastructure is inadequate to meet the water demands of the project. As such, the District could require a developer to fund the upsizing of a water pipeline or booster station if needed to handle the project's water demands. For example, if a large new development is built in an area served by pipelines that do not have adequate capacity to serve the development, the District could require the developer to fund the required pipeline upsizing as a condition of development in addition to paying a capacity charge.

Future Capacity Charge Adjustments

In future years, BWA recommends that the District continue its historical practice of adjusting its water capacity charges annually based on the change in the Engineering News-Record Construction Cost Index to account for future construction cost inflation. The fee adjustment should be based on the change in the ENR index from the base year or from the preceding fee update, not simply the prior year, to allow for a multi-year adjustment if the District ever opted to temporarily defer or not fully implement an annual adjustment. The District's ordinance or resolution adopting new capacity charges can allow for automatic annual adjustments, but the Board of Directors would always retain the authority to defer an adjustment.

In general, BWA recommends that capacity charges be independently reviewed and/or updated roughly once every five years or when substantial revisions are made to the District's capital improvement programs or to future projections of water demand.

APPENDIX A
Key Sections of California Government Code Pertaining to Capacity Charges
Sections 66013, 66016, 66016.6, 66022

66013

(a) Notwithstanding any other provision of law, when a local agency imposes fees for water connections or sewer connections, or imposes capacity charges, those fees or charges shall not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed, unless a question regarding the amount of the fee or charge imposed in excess of the estimated reasonable cost of providing the services or materials is submitted to, and approved by, a popular vote of two-thirds of those electors voting on the issue.

(b) As used in this section:

(1) "Sewer connection" means the connection of a structure or project to a public sewer system.

(2) "Water connection" means the connection of a structure or project to a public water system, as defined in subdivision (h) of Section 116275 of the Health and Safety Code.

(3) "Capacity charge" means a charge for public facilities in existence at the time a charge is imposed or charges for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the local agency involving capital expense relating to its use of existing or new public facilities. A "capacity charge" does not include a commodity charge.

(4) "Local agency" means a local agency as defined in Section 66000.

(5) "Fee" means a fee for the physical facilities necessary to make a water connection or sewer connection, including, but not limited to, meters, meter boxes, and pipelines from the structure or project to a water distribution line or sewer main, and the estimated reasonable cost of labor and materials for installation of those facilities bears a fair or reasonable relationship to the payor's burdens on, or benefits received from, the water connection or sewer connection.

(6) "Public facilities" means public facilities as defined in Section 66000.

(c) A local agency receiving payment of a charge as specified in paragraph (3) of subdivision (b) shall deposit it in a separate capital facilities fund with other charges received, and account for the charges

in a manner to avoid any commingling with other moneys of the local agency, except for investments, and shall expend those charges solely for the purposes for which the charges were collected. Any interest income earned from the investment of moneys in the capital facilities fund shall be deposited in that fund.

(d) For a fund established pursuant to subdivision (c), a local agency shall make available to the public, within 180 days after the last day of each fiscal year, the following information for that fiscal year:

(1) A description of the charges deposited in the fund.

(2) The beginning and ending balance of the fund and the interest earned from investment of moneys in the fund.

(3) The amount of charges collected in that fiscal year.

(4) An identification of all of the following:

(A) Each public improvement on which charges were expended and the amount of the expenditure for each improvement, including the percentage of the total cost of the public improvement that was funded with those charges if more than one source of funding was used.

(B) Each public improvement on which charges were expended that was completed during that fiscal year.

(C) Each public improvement that is anticipated to be undertaken in the following fiscal year.

(5) A description of each interfund transfer or loan made from the capital facilities fund. The information provided, in the case of an interfund transfer, shall identify the public improvements on which the transferred moneys are, or will be, expended. The information, in the case of an interfund loan, shall include the date on which the loan will be repaid, and the rate of interest that the fund will receive on the loan.

(e) The information required pursuant to subdivision (d) may be included in the local agency's annual financial report.

(f) The provisions of subdivisions (c) and (d) shall not apply to any of the following:

(1) Moneys received to construct public facilities pursuant to a contract between a local agency and a person or entity, including, but not limited to, a reimbursement agreement pursuant to Section 66003.

(2) Charges that are used to pay existing debt service or which are subject to a contract with a trustee for bondholders that requires a different accounting of the charges, or charges that are used to

reimburse the local agency or to reimburse a person or entity who advanced funds under a reimbursement agreement or contract for facilities in existence at the time the charges are collected.

(3) Charges collected on or before December 31, 1998.

(g) Any judicial action or proceeding to attack, review, set aside, void, or annul the ordinance, resolution, or motion imposing a fee or capacity charge subject to this section shall be brought pursuant to Section 66022.

(h) Fees and charges subject to this section are not subject to the provisions of Chapter 5 (commencing with Section 66000), but are subject to the provisions of Sections 66016, 66022, and 66023.

(i) Subdivisions (c) and (d) only apply to capacity charges levied pursuant to this section.

(Amended by Stats. 2020, Ch. 370, Sec. 180. (SB 1371) Effective January 1, 2021.)

66016

(a) Prior to levying a new fee or service charge, or prior to approving an increase in an existing fee or service charge, a local agency shall hold at least one open and public meeting, at which oral or written presentations can be made, as part of a regularly scheduled meeting. Notice of the time and place of the meeting, including a general explanation of the matter to be considered, and a statement that the data required by this section is available, shall be mailed at least 14 days prior to the meeting to any interested party who files a written request with the local agency for mailed notice of the meeting on new or increased fees or service charges. Any written request for mailed notices shall be valid for one year from the date on which it is filed unless a renewal request is filed. Renewal requests for mailed notices shall be filed on or before April 1 of each year. The legislative body may establish a reasonable annual charge for sending notices based on the estimated cost of providing the service. At least 10 days prior to the meeting, the local agency shall make available to the public data indicating the amount of cost, or estimated cost, required to provide the service for which the fee or service charge is levied and the revenue sources anticipated to provide the service, including General Fund revenues. Unless there has been voter approval, as prescribed by Section 66013 or 66014, no local agency shall levy a new fee or service charge or increase an existing fee or service charge to an amount which exceeds the estimated amount required to provide the service for which the fee or service charge is levied. If, however, the fees or service charges create revenues in excess of actual cost, those revenues shall be used to reduce the fee or service charge creating the excess.

(b) Any action by a local agency to levy a new fee or service charge or to approve an increase in an existing fee or service charge shall be taken only by ordinance or resolution. The legislative body of a local agency shall not delegate the authority to adopt a new fee or service charge, or to increase a fee or service charge.

(c) Any costs incurred by a local agency in conducting the meeting or meetings required pursuant to subdivision (a) may be recovered from fees charged for the services which were the subject of the meeting.

(d) This section shall apply only to fees and charges as described in Sections 51287, 56383, 65104, 65456, 65584.1, 65863.7, 65909.5, 66013, 66014, and 66451.2 of this code, Sections 17951, 19132.3, and 19852 of the Health and Safety Code, Section 41901 of the Public Resources Code, and Section 21671.5 of the Public Utilities Code.

(e) Any judicial action or proceeding to attack, review, set aside, void, or annul the ordinance, resolution, or motion levying a fee or service charge subject to this section shall be brought pursuant to Section 66022.

(Amended by Stats. 2006, Ch. 643, Sec. 19. Effective January 1, 2007.)

66016.6

(a) Prior to levying a new fee or capacity charge, a local agency shall evaluate the amount of the fee or capacity charge. The evaluation shall include evidence to support that the fee or capacity charge does not exceed the estimated reasonable cost of providing service, in accordance with Section 66013.If an ordinance, resolution, or motion provides for an automatic adjustment in a fee or service charge, and the automatic adjustment results in an increase in the amount of a fee or service charge, any action or proceeding to attack, review, set aside, void, or annul the increase shall be commenced within 120 days of the effective date of the increase.

(b) All information constituting the evaluation shall be made publicly available at least 14 days prior to a meeting held in accordance with subdivision (a) of Section 66016.

(c) For purposes of this section:

(1) “Capacity charge” has the same meaning as defined in Section 66013.

(2) “Fee” has the same meaning as defined in Section 66013.

(3) “Local agency” has the same meaning as defined in Section 66013.

(d) Nothing in this section shall be construed to relieve a local agency of the requirement that it comply with Chapter 7 (commencing with Section 66012), the California Constitution, or applicable case law when calculating the amount of a fee.

(Added by Stats. 2022, Ch. 128, Sec. 2. (AB 2536) Effective January 1, 2023.)

66022

(a) Any judicial action or proceeding to attack, review, set aside, void, or annul an ordinance, resolution, or motion adopting a new fee or service charge, or modifying or amending an existing fee or service charge, adopted by a local agency, as defined in Section 66000, shall be commenced within 120 days of the effective date of the ordinance, resolution, or motion.

If an ordinance, resolution, or motion provides for an automatic adjustment in a fee or service charge, and the automatic adjustment results in an increase in the amount of a fee or service charge, any action or proceeding to attack, review, set aside, void, or annul the increase shall be commenced within 120 days of the effective date of the increase.

(b)Any action by a local agency or interested person under this section shall be brought pursuant to Chapter 9 (commencing with Section 860) of Title 10 of Part 2 of the Code of Civil Procedure.

(c) This section shall apply only to fees, capacity charges, and service charges described in and subject to Sections 66013, 66014, and 66016.

(Amended by Stats. 2006, Ch. 643, Sec. 20. Effective January 1, 2007.)

APPENDIX B

Water System Assets & Valuation

Appendix B - Table 1
MMWD Capacity Charge Study
Engineering News Record Construction Cost Index

Year	Index	Current Day Factor	Annual Inflation
1908	97	118.21	
1909	91	126.00	-6.19%
1910	96	119.44	5.49%
1911	93	123.29	-3.13%
1912	91	126.00	-2.15%
1913	100	114.66	9.89%
1914	89	128.83	-11.00%
1915	93	123.29	4.49%
1916	130	88.20	39.78%
1917	181	63.35	39.23%
1918	189	60.67	4.42%
1919	198	57.91	4.76%
1920	251	45.68	26.77%
1921	202	56.76	-19.52%
1922	174	65.90	-13.86%
1923	214	53.58	22.99%
1924	215	53.33	0.47%
1925	207	55.39	-3.72%
1926	208	55.13	0.48%
1927	206	55.66	-0.96%
1928	207	55.39	0.49%
1929	207	55.39	0.00%
1930	203	56.48	-1.93%
1931	181	63.35	-10.84%
1932	157	73.03	-13.26%
1933	170	67.45	8.28%
1934	198	57.91	16.47%
1935	196	58.50	-1.01%
1936	206	55.66	5.10%
1937	235	48.79	14.08%
1938	236	48.58	0.43%
1939	236	48.58	0.00%
1940	242	47.38	2.54%
1941	258	44.44	6.61%
1942	276	41.54	6.98%
1943	290	39.54	5.07%
1944	299	38.35	3.10%
1945	308	37.23	3.01%
1946	346	33.14	12.34%
1947	413	27.76	19.36%
1948	461	24.87	11.62%
1949	477	24.04	3.47%
1950	510	22.48	6.92%
1951	543	21.12	6.47%
1952	569	20.15	4.79%
1953	600	19.11	5.45%
1954	628	18.26	4.67%
1955	660	17.37	5.10%

Appendix B - Table 1
MMWD Capacity Charge Study
Engineering News Record Construction Cost Index

Year	Index	Current Day Factor	Annual Inflation
1956	692	16.57	4.85%
1957	724	15.84	4.62%
1958	759	15.11	4.83%
1959	797	14.39	5.01%
1960	824	13.92	3.39%
1961	847	13.54	2.79%
1962	872	13.15	2.95%
1963	901	12.73	3.33%
1964	936	12.25	3.88%
1965	971	11.81	3.74%
1966	1,019	11.25	4.94%
1967	1,074	10.68	5.40%
1968	1,155	9.93	7.54%
1969	1,269	9.04	9.87%
1970	1,381	8.30	8.83%
1971	1,581	7.25	14.48%
1972	1,753	6.54	10.88%
1973	1,895	6.05	8.10%
1974	2,020	5.68	6.60%
1975	2,212	5.18	9.50%
1976	2,401	4.78	8.54%
1977	2,576	4.45	7.29%
1978	2,776	4.13	7.76%
1979	3,003	3.82	8.18%
1980	3,237	3.54	7.79%
1981	3,535	3.24	9.21%
1982	3,825	3.00	8.20%
1983	4,066	2.82	6.30%
1984	4,146	2.77	1.97%
1985	4,195	2.73	1.18%
1986	4,295	2.67	2.38%
1987	4,406	2.60	2.58%
1988	4,519	2.54	2.56%
1989	4,615	2.48	2.12%
1990	4,732	2.42	2.53%
1991	4,835	2.37	2.18%
1992	4,985	2.30	3.10%
1993	5,210	2.20	4.53%
1994	5,408	2.12	3.78%
1995	5,471	2.10	1.18%
1996	5,622	2.04	2.76%
1997	5,825	1.97	3.61%
1998	5,920	1.94	1.64%
1999	6,060	1.89	2.35%
2000	6,221	1.84	2.67%
2001	6,342	1.81	1.94%
2002	6,538	1.75	3.09%
2003	6,695	1.71	2.39%
2004	7,115	1.61	6.28%

Appendix B - Table 1
MMWD Capacity Charge Study
Engineering News Record Construction Cost Index

Year	Index	Current Day Factor	Annual Inflation
2005	7,446	1.54	4.65%
2006	7,751	1.48	4.10%
2007	7,967	1.44	2.78%
2008	8,310	1.38	4.30%
2009	8,570	1.34	3.13%
2010	8,799	1.30	2.67%
2011	9,070	1.26	3.08%
2012	9,308	1.23	2.63%
2013	9,547	1.20	2.56%
2014	9,806	1.17	2.72%
2015	10,335	1.11	5.39%
2016	10,385	1.10	0.48%
2017	10,737	1.07	3.39%
2018	11,062	1.04	3.03%
2019	11,281	1.02	1.98%
2020	11,466	1.00	1.64%
2021	12,133	1.10	5.82%
2022	13,007	1.03	7.20%
2023	13,358	1.00	2.70%
2024	13,358	1.00	0.00%

Appendix B - Table 2
MMWD Capacity Charge Study
Consumer Price Index for All Urban Consumers (CPI-U)

Year	Index	Current Day Factor
1914	9.2	38.16
1915	9.2	38.16
1916	9.5	36.95
1917	10.9	32.21
1918	12.9	27.21
1919	15.0	23.40
1920	17.0	20.65
1921	15.3	22.95
1922	14.6	24.05
1923	14.7	23.88
1924	14.7	23.88
1925	15.1	23.25
1926	15.0	23.40
1927	14.9	23.56
1928	14.8	23.72
1929	14.9	23.56
1930	14.5	24.21
1931	13.3	26.40
1932	12.3	28.54
1933	11.8	29.75
1934	12.1	29.01
1935	12.4	28.31
1936	12.4	28.31
1937	12.8	27.43
1938	12.8	27.43
1939	12.6	27.86
1940	12.7	27.64
1941	13.4	26.20
1942	15.0	23.40
1943	16.0	21.94
1944	16.4	21.41
1945	16.8	20.90
1946	18.2	19.29
1947	20.6	17.04
1948	22.0	15.96
1949	22.0	15.96
1950	22.0	15.96
1951	23.8	14.75
1952	24.6	14.27
1953	25.0	14.04
1954	25.1	13.99
1955	24.9	14.10
1956	25.5	13.77

Appendix B - Table 2
MMWD Capacity Charge Study
Consumer Price Index for All Urban Consumers (CPI-U)

Year	Index	Current Day Factor
1957	26.5	13.25
1958	27.5	12.77
1959	28.0	12.54
1960	28.6	12.27
1961	28.9	12.15
1962	29.4	11.94
1963	29.8	11.78
1964	30.2	11.62
1965	30.8	11.40
1966	31.6	11.11
1967	32.5	10.80
1968	34.0	10.33
1969	35.8	9.81
1970	37.7	9.31
1971	39.1	8.98
1972	40.4	8.69
1973	42.8	8.20
1974	47.0	7.47
1975	51.8	6.78
1976	54.6	6.43
1977	58.8	5.97
1978	64.3	5.46
1979	69.8	5.03
1980	80.4	4.37
1981	90.8	3.87
1982	97.6	3.60
1983	98.4	3.57
1984	104.0	3.38
1985	108.4	3.24
1986	111.6	3.15
1987	115.4	3.04
1988	120.5	2.91
1989	126.4	2.78
1990	132.1	2.66
1991	137.9	2.55
1992	142.5	2.46
1993	146.3	2.40
1994	148.7	2.36
1995	151.6	2.32
1996	155.1	2.26
1997	160.4	2.19
1998	165.5	2.12
1999	172.5	2.04

Appendix B - Table 2
MMWD Capacity Charge Study
Consumer Price Index for All Urban Consumers (CPI-U)

Year	Index	Current Day Factor
2000	180.2	1.95
2001	189.9	1.85
2002	193.0	1.82
2003	196.4	1.79
2004	198.8	1.77
2005	202.7	1.73
2006	209.2	1.68
2007	216.0	1.62
2008	222.8	1.58
2009	224.4	1.56
2010	227.5	1.54
2011	233.4	1.50
2012	239.7	1.46
2013	245.0	1.43
2014	252.0	1.39
2015	258.6	1.36
2016	266.3	1.32
2017	274.9	1.28
2018	285.6	1.23
2019	295.0	1.19
2020	300.1	1.17
2021	309.7	1.13
2022	327.1	1.07
2023	339.1	1.04
2024		1.00

Series Title: All items in San Francisco-Oakland-Hayward, CA, all urban consumers, not seasonally adjusted.

Base Period: 1982-84=100

Appendix B - Table 3
MMWD Capacity Charge Study
Pipeline Length

Year in Service	Length (feet)
1901	1,244
1902	3,089
1903	2,276
1904	247
1905	2,205
1906	1,514
1907	1,704
1908	3,519
1909	16,107
1910	2,493
1911	2,822
1912	3,907
1913	7,674
1914	3,697
1915	362
1916	534
1917	858
1918	429
1919	175
1920	5,995
1921	11,083
1922	14,313
1923	8,119
1924	10,344
1925	2,271
1926	27,548
1927	15,574
1928	9,116
1929	17,316
1930	18,104
1931	13,573
1932	11,598
1933	5,454
1934	4,608
1935	4,649
1936	12,066
1937	13,549
1938	17,328
1939	20,829
1940	7,342
1941	10,575
1942	8,178
1943	10,233
1944	6,850
1945	6,348

Appendix B - Table 3
MMWD Capacity Charge Study
Pipeline Length

Year in Service	Length (feet)
1946	27,665
1947	35,641
1948	60,042
1949	45,905
1950	35,593
1951	90,438
1952	47,627
1953	40,255
1954	55,743
1955	72,664
1956	114,743
1957	121,076
1958	68,861
1959	71,988
1960	169,245
1961	96,226
1962	126,151
1963	124,569
1964	107,918
1965	108,111
1966	81,126
1967	61,251
1968	59,859
1969	58,076
1970	43,456
1971	120,003
1972	113,321
1973	60,832
1974	39,802
1975	30,232
1976	30,577
1977	68,254
1978	43,223
1979	34,916
1980	40,414
1981	41,441
1982	14,753
1983	19,955
1984	30,900
1985	35,859
1986	62,703
1987	74,696
1988	50,668
1989	48,064

Appendix B - Table 3
MMWD Capacity Charge Study
Pipeline Length

Year in Service	Length (feet)
1990	108,180
1991	79,017
1992	97,926
1993	57,379
1994	53,111
1995	40,479
1996	54,357
1997	62,735
1998	54,295
1999	41,447
2000	46,272
2001	58,351
2002	47,783
2003	60,750
2004	27,089
2005	39,699
2006	51,577
2007	37,238
2008	56,191
2009	35,012
2010	36,223
2011	47,721
2012	35,898
2013	45,638
2014	36,116
2015	40,550
2016	28,367
2017	35,001
2018	52,370
2019	21,197
2020	10,265
2021	18,437
2022	26,666
2023	13,112
2024	1,275
Total	**4,790,385**
Weighted Average Year	**1975**
Current Year	**2025**
Weighted Average Age	**50**

Appendix B - Table 4
MMWD Capacity Charge Study
Recently Completed Pipeline Projects

Recently Completed Pipeline Projects	Completion	Length (ft)	Cost	Cost/Mile
Treehaven	2024	$6,660	$3,692,000	$2,926,991
3rd Street	2023	$6,570	$3,646,000	$2,930,119
Barber Ave	2022	$440	$268,000	$3,216,000
Berry Lane	2022	$300	$317,733	$5,592,101
East Blithedale Ave	2022	$4,400	$2,854,000	$3,424,800
Sir Francis Drake Kentfield	2022	$8,500	$5,730,641	$3,559,739
Southern Marin	2022	$5,800	$3,210,239	$2,922,424
Sunny Oaks	2022	$520	$414,474	$4,208,505
Southern Heights	2021	$400	$321,247	$4,240,460
Weighted Average				**$3,215,209**

Appendix B - Table 5
MMWD Capacity Charge Study
Outstanding Debt as of 6/30/2024

	2022 Bonds		2017 Bonds		2016 Bonds		AEEP		LGVSD: RWTF Buy-in		LGVD 2017 Rev Bond	
Year Ending June 30,	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
2025	$2,495,000	$2,569,950	$755,000	$1,520,875	-	$1,481,975	-	-	$85,429	$22,129	$126,378	$130,510
2026	2,590,000	2,470,150	790,000	1,482,250	-	1,481,975	165,734	39,586	88,611	18,948	131,098	125,455
2027	2,705,000	2,366,550	830,000	1,441,750	-	1,481,975	170,231	35,089	91,911	15,648	136,341	120,212
2028	2,840,000	2,231,300	870,000	1,399,250	-	1,481,975	174,850	30,470	95,334	12,225	142,110	114,757
2029	2,980,000	2,089,300	915,000	1,359,200	-	1,481,975	179,595	25,725	98,884	8,675	147,354	109,073
2030-2034	2,145,000	9,501,000	5,205,000	6,142,150	9,650,000	6,481,363	768,439	52,827	226,636	15,371	859,476	451,982
2035-2039	2,635,000	9,008,400	6,435,000	4,882,275	14,810,000	3,454,850	-	-	-	-	1,011,024	266,307
2040-2044	12,690,000	7,887,400	8,165,000	3,092,625	6,920,000	350,250	-	-	-	-	708,976	57,473
2045-2049	18,065,000	4,757,800	8,130,000	783,375	-	-	-	-	-	-	-	-
2050-2054	12,665,000	1,026,600	-	-	-	-	-	-	-	-	-	-
Outstanding Balance	**$61,810,000**	**$43,908,450**	**$32,095,000**	**$22,103,750**	**$31,380,000**	**$17,696,338**	**$1,458,849**	**$183,697**	**$686,805**	**$92,996**	**$3,262,757**	**$1,375,768**

Appendix B - Table 6, Asset Class 1000 Land **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
100000	Alpine Property	1/1/1920	$5,227	$5,227	$107,945	$107,945
100001	Beacon Hill Saus Tk Prop	1/1/1935	2,218	2,218	62,795	62,795
100002	Belv Land Co Property	1/1/1922	13,115	13,115	315,356	315,356
100003	"Bolinas Ridge, S A Prop"	1/1/1967	5,132	5,132	55,436	55,436
100004	San Rafael Park #4	1/1/1969	2,500	2,500	24,516	24,516
100005	Freitas Ranch Santa Marg	1/1/1956	5,402	5,402	74,370	74,370
100006	Santa Venetia Tank	1/1/1969	4,500	4,500	44,128	44,128
100007	Sausalito	1/1/1926	62,780	62,780	1,469,320	1,469,320
100008	Sequoia Park #2 San Ansel	1/1/1957	3,100	3,100	41,068	41,068
100009	Shafter Lands	1/1/1920	138,656	138,656	2,863,361	2,863,361
100010	Pine Mt Tunnel	1/1/1920	19,000	19,000	392,366	392,366
100011	Puerto Suello Tank Rafael	1/1/1958	12,500	12,500	159,575	159,575
100012	Rafael Highlands Tank	1/1/1956	2,500	2,500	34,418	34,418
100013	San Clemente	1/1/1958	3,000	3,000	38,298	38,298
100014	San Geronimo	1/1/1958	32,626	32,626	416,502	416,502
100015	San Rafael	1/1/1922	2,994	2,994	71,992	71,992
100016	Smith Saddle	1/1/1970	13,808	13,808	128,581	128,581
100017	Soulajule Job Closed 6/81	6/30/1981	731,292	731,292	2,827,426	2,827,426
100018	Phoenix Dam Access Road	5/31/1989	73,222	73,222	203,367	203,367
100019	Southern Marin Line Road	6/30/1984	11,522	11,522	38,894	38,894
100020	T L Meadows Tank Site	6/30/1993	23,599	23,599	56,629	56,629
100021	Salmonoid Habitat Restoration	6/30/1996	58,939	58,939	133,407	133,407
100022	Consulting Fee	1/4/1976	5,000	5,000	32,149	32,149
100023	Strawberry	1/1/1965	6,542	6,542	74,567	74,567
100024	Tamalpais Valley	1/1/1965	27,771	27,771	316,539	316,539
100025	Terra Linda #20	1/1/1968	2,500	2,500	25,814	25,814
100026	Lando Prop. Right Of Way	1/1/1976	20,000	20,000	128,595	128,595
100027	Chapman Reservoir Prop.	1/1/1978	7,749	7,749	42,308	42,308
100028	Soulajule Dam	1/1/1979	1,648,224	1,648,224	8,289,858	8,289,858
100029	Fairfax Prop	1/1/1920	25,378	25,378	524,077	524,077
100030	"Fawn Dr, S A Prop"	1/1/1948	4,720	4,720	75,319	75,319
100031	Glenwood Forest	1/1/1968	3,000	3,000	30,976	30,976
100032	Greenbrae Tank Prop	1/1/1956	5,000	5,000	68,836	68,836
100033	Larkspur Landing Prop	1/1/1920	28,994	28,994	598,750	598,750
100034	Kentfield Prop	1/1/1920	2,776	2,776	57,327	57,327
100035	"Bret Harte #1, Mv Prop"	1/1/1967	9,650	9,650	104,239	104,239
100036	"Conifer Wy, Wdacr Prop"	1/1/1969	18,726	18,726	183,632	183,632
100037	C M Office Prop	1/1/1962	61,512	61,512	734,512	734,512
100038	C M Yard Prop	1/1/1962	92,268	92,268	1,101,768	1,101,768
100039	Deer Park Prop	1/1/1920	12,551	12,551	259,188	259,188
100040	"Doherty, C M Prop"	1/1/1922	7,224	7,224	173,705	173,705
100041	Lagunitas Bstr Stn Cyc Path	1/1/1974	4,717	4,717	35,233	35,233
100042	Mill Valley	1/1/1920	2,050	2,050	42,334	42,334
100043	Muir Meadows	1/1/1968	5,000	5,000	51,627	51,627
100044	Nicasio	1/1/1963	899,000	899,000	10,590,823	10,590,823
100045	Oak Woodlands San Rafael	1/1/1956	2,500	2,500	34,418	34,418
100046	North Coast Water	1/1/1920	292,685	292,685	6,044,186	6,044,186
100047	"Peters,Alpine"	1/1/1920	3,451	3,451	71,266	71,266
100048	Larkspur Prop	1/1/1922	2,238	2,238	53,814	53,814
100049	Los Ranchitos Tank Lot	1/1/1948	5,000	5,000	79,787	79,787
100050	Madrone Woodlands	1/1/1965	3,000	3,000	34,195	34,195
100051	Marinwood	1/1/1956	5,000	5,000	68,836	68,836
100052	Marinero #2	1/1/1965	3,000	3,000	34,195	34,195
100053	Marin Water Property	1/1/1920	858,511	858,511	17,728,959	17,728,959

Appendix B - Table 6, Asset Class 1000 Land **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
100054	CONCRETE PIPE RD SLIDE REPAIR-CONST.	5/1/2002	9,854	9,854	17,925	17,925
100055	CATARACT TRAIL REPAIR	12/1/2001	108,410	108,410	200,415	200,415
100056	LAGUNITAS CREEK SEDIMENTATION-FDRL GRANT	6/30/2003	405,696	405,696	725,179	725,179
100057	FAIRFAX MANOR TOP TANK ACCESS PROPERTY	6/30/2004	145,787	145,787	257,447	257,447
100059	PHOENIX LAKE ROAD STABALIZATION PJCT	6/30/2005	163,594	163,594	283,335	283,335
100061	ESCROW	6/30/2005	11,756	11,756	20,361	20,361
100062	BONDS NON-DEPR	6/30/2005	87,586	87,586	151,694	151,694
100063	TAXES	6/30/2005	73,021	73,021	126,468	126,468
100064	HAWTHORNE ROAD NON-DEPR	6/30/2005	8,680	8,680	15,033	15,033
100065	ANDIES TRAIL NON-DEPR	6/30/2005	3,242	3,242	5,615	5,615
100066	REFORESTING DISTRICT LANDS	6/30/2005	6,603	6,603	11,436	11,436
100067	LAGUNITAS ROAD NON-DEPR	6/30/2005	11,679	11,679	20,227	20,227
100068	PINE MT TUNNELL ACCESS ROAD	6/30/2005	8,871	8,871	15,364	15,364
100069	MT TAMALPIAS PHASE III	6/30/2005	2,700	2,700	4,676	4,676
100070	MT TAMALPIAS PHASE II	6/30/2005	8,700	8,700	15,068	15,068
100071	SAN QUENTIN PIPEYARD	6/30/2005	346,697	346,697	600,458	600,458
100072	B.T.T.P. ACCESS ROAD	6/30/2005	61,517	61,517	106,544	106,544
100080	PINE MT. TUNNEL ROAD STABALIZATION	6/30/2007	46,211	46,211	75,090	75,090
100082	CONCRETE PIPE ROAD ROAD MGMT PLAN- DRAINAGE	6/30/2007	105,150	105,150	170,862	170,862
100083	MT TAM ROAD & TRAIL MANAGEMENT PLAN	3/31/2008	220,031	220,031	346,751	346,751
100084	MARIN TERRACE PUMP STATION REPLS- LAND	5/31/2008	25,458	25,458	40,120	40,120
100086	MILL VALLEY WATERSHEDS SEDIMENT CONTROL	6/30/2009	411,950	411,950	644,492	644,492
100089	SOULAJULE ACCESS ROAD REPAIR #424423- FEMA	3/31/2010	59,046	59,046	91,129	91,129
100093	CONCRETE PIPE RD & SHAVER GRADE RD SLIDE REPAIR	4/1/2012	670,027	670,027	981,524	981,524
100095	PELICAN YARD GRADING PROJECT	10/31/2013	159,676	159,676	228,781	228,781
100096	2010 BEST MGMT PRACTICES CULVERT UPGRAD	5/21/2014	179,036	179,036	249,432	249,432
100098	PELICAN YARD GRADING and DRAINAGE IMPROVEMENT	6/30/2016	108,526	108,526	143,046	143,046
100099	DEER PARK PAVING & REPAIR-PARKING LOT-ROAD	6/30/2016	313,365	313,365	413,041	413,041
100100	278 SQ FT-501 OAK AVE, SAN ANSELMO	6/15/2017	8,340	8,340	10,650	10,650
100101	ELDRIDGE GRADE SLIDE REPAIR @EG-24	3/31/2018	370,097	370,097	455,008	455,008
100106	SOUTHERN MARIN LINE SLIDE REPAIR AT SM3	4/30/2019	257,832	257,832	306,829	306,829
100111	KENT PUMP ROAD SLIDE REPAIR	10/31/2020	296,465	296,465	346,830	346,830
100112	SKY OAKS ROAD SLIDE REPAIR AT BON TEMPE LAKE	10/31/2020	43,213	43,213	50,555	50,555
100113	LAGUNITAS HABITAT ENHANCEMENT	7/1/2017	34,987	34,987	44,677	44,677
100114	SKY OAKS ROAD SINKHOLE REPAIR	10/31/2020	20,426	20,426	23,897	23,897
100115	ROSS RESERVOIR SLIDE REPAIR	10/31/2020	2,366,240	2,366,240	2,768,231	2,768,231
100117	SKY OAKS ROAD RETAINING WALL REPLACEMENT	12/13/2022	344,884	344,884	370,196	370,196
100118	SKY OAKS ROAD & FILTER PLANT ROAD WIDENING	10/2/2023	5,047	5,047	5,226	5,226
100119	DEER PARK PARKING LOT PAVING	11/30/2023	970	970	1,004	1,004
100120	WORN SPRING ROAD SLIDE REPAIR	3/28/2024	355,316	355,316	355,316	355,316
Totals Asset Class 1000 Land			**$13,170,054**	**$13,170,054**	**$67,951,509**	**$67,951,509**

Appendix B - Table 7, Asset Class 2000 Buildings **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
200000	Storage Building Pipe Yd	11/30/1991	$17,238	$0	$40,878	$0
200001	Phoenix Lake House	6/30/1991	9,993	0	23,698	0
200002	Restroom Building Kit	8/31/1986	9,556	0	25,511	0
200003	Hoffman Enclosure	2/29/1988	10,782	0	27,357	0
200004	Bontempe Tunnel Rehab	7/1/1992	18,156	0	41,762	0
200005	Motorized Shop Door	1/31/1985	7,806	0	21,336	0
200006	Phoenix Lake & Patero Cam	1/1/1971	10,182	0	73,844	0
200007	Soulajule Spillway Fence	5/31/1986	7,577	0	20,228	0
200008	Phoenix Cabin Access	7/1/1992	22,444	0	51,625	0
200008	PHOENIX CABIN ACCESS RAMP	12/22/2010	223	0	290	0
200009	Reroof Shop Bldg-C.M.	6/30/1984	12,521	0	34,628	0
200010	Mobile Office (Corp Yard)	9/30/1991	18,426	0	43,696	0
200011	Lower Phoenix Bridge Repl	6/30/1982	11,420	0	34,233	0
200012	"2,000 Fuel Tank Sgtp"	5/31/1989	18,850	0	46,833	0
200013	Refurbishing Interior M/O	8/31/1985	11,309	0	30,910	0
200014	Carpeting Main Office	6/30/1984	10,955	0	30,297	0
200015	Erosion Cont Bret Hart Tk	6/30/1983	12,000	0	33,840	0
200016	MMWD HAVA - Modifications	7/1/1997	103,406	33,608	203,543	66,153
200017	Greenbrae Yard	1/1/1953	5,443	0	104,016	0
200018	Main Gate Automat Sgtp	2/29/1992	8,495	0	19,540	0
200019	Retaining Wall-Lattie Tk	6/30/1983	5,667	0	15,981	0
200020	"2,000 Gal Fuel Tank Mmwd"	5/31/1989	8,127	0	20,192	0
200021	Building Security System	3/31/1989	4,669	0	11,600	0
200022	"2,000 Gal Fuel Tk Sky Oak"	5/31/1989	7,663	0	19,039	0
200023	Middle Peak Generator Hou	1/1/1958	4,577	0	69,143	0
200025	Womens Bathroom Improve'T	5/31/1989	9,439	0	23,451	0
200026	Auto Shop Exhaust System	6/30/1983	7,125	0	20,092	0
200027	Finance Office Remodeling	1/31/1992	7,525	0	17,309	0
200028	West Blithedale Brige M.V	5/30/1988	10,438	0	26,484	0
200029	San Quentin Yard Fencing	6/30/1982	6,629	0	19,871	0
200030	Riggings Bridge Rehab	6/30/1983	6,421	0	18,107	0
200031	"2,000 Gal Fuel Tank Mmwd"	2/28/1990	10,371	0	25,130	0
200032	Eldridge Grade Slid	11/1/1999	132,024	0	249,821	0
200033	Exterior Signs/Corp Yard & Admin Bldg	9/1/1996	14,277	0	29,117	0
200034	Restoration/Parking Lot	6/30/1984	13,794	0	38,148	0
200035	Repainting B.T.& Main Off	11/30/1985	42,910	0	117,284	0
200036	Bon Tempe Access Road	2/1/1994	83,751	0	177,582	0
200037	Reroof Cm Office Bldg	7/1/1992	68,547	0	157,670	0
200038	Bon Tempe Access Road	2/1/1994	82,791	0	175,546	0
200039	HVAC System	6/30/1991	101,578	0	240,884	0
200040	Ada Conversion Office Bulding	2/1/1995	249,866	66,110	523,648	138,548
200041	Sky Oaks Ranger Station	1/1/1997	346,819	108,381	682,673	213,335
200041	SKY OAKS RANGER STATION SEPTIC SYSTEM IMPROVEMENT	5/31/2007	70,924	10,375	102,073	14,932
200041	SKY OAKS ROAD REPAIR	6/30/2007	128,196	0	184,498	0
200042	Lagunitas Lake Pier	6/30/1982	69,435	0	208,142	0
200043	Wq Equip Storage Building	6/30/1992	74,205	0	170,685	0
200044	Corte Madera Office	1/1/1962	934,044	0	12,281,822	0
200044	ADMIN BUILDING HVAC REPLACEMENT	1/31/2009	12,528	2,506	16,762	3,352
200044	ADMIN BUILDING LIGHTING CONTRACTOR REPLS	1/31/2009	6,360	1,272	8,509	1,702
200044	ADMIN BUILDING WATER CONSERVATION REMODEL	12/31/2009	28,699	17,937	38,397	23,998
200044	ALTERNATE ENERGY SUPPLY- ADMIN OFFICE	12/31/2009	1,077,405	303,527	1,441,471	406,092
200044	ADMIN BUILDING HVAC COOLING TOWER CHEMICAL INJECTI	12/31/2009	8,307	0	11,113	0
200044	ADMIN BUILDING BOARD ROOM HVAC REPLS	12/21/2010	9,977	6,485	13,001	8,451
200044	HUMAN RESOURCES REMODEL- ADMIN BLDG	12/22/2010	20,044	13,029	26,120	16,978
200045	Corte Madera Yard	1/1/1962	451,249	0	5,933,510	0
200045	MMWD CORPORATION YARD RE-ROOFING	1/11/2007	557,421	0	802,233	0
200045	ALTERNATIVE ENERGY SUPPLY- CORPORATE YARD	12/31/2009	1,032,354	266,706	1,381,197	356,828
200046	Paint Sgtp/Ignacio Pump	6/30/1990	202,687	0	491,135	0
200047	SCADA Building And Offices	3/1/1995	628,889	167,704	1,317,971	351,459

Appendix B - Table 7, Asset Class 2000 Buildings **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
200048	Phoenix Cabin Restoration	6/30/1990	283,344	42,500	686,576	102,983
200049	Bon Tempe Tunnel Re-Evaluation	3/1/1995	406,136	108,303	851,145	226,972
200050	Soulajule Acc/Bridge D&R	6/30/1983	46,065	0	129,902	0
200051	Skyoaks Vehicle Shed	6/30/1991	49,990	0	118,547	0
200052	Flooring Dispath Main Off	11/30/1985	23,254	0	63,559	0
200053	San Geronimo Ridge Road Slide Repair	6/30/1997	85,195	0	167,696	0
200054	Alpine Security Residence	6/30/1990	72,490	10,874	175,652	26,350
200055	Pine Mt Tunnel Bridge	6/30/1982	19,127	0	57,336	0
200056	Kiosk-Sky Oaks	6/30/1985	17,888	0	48,892	0
200057	Air Conditioning Controls	5/31/1988	19,873	0	50,424	0
200058	District Office Landscaping Upgrade	7/31/1994	96,962	24,443	205,594	51,828
200059	Paving & Overlay-Corp Yd	11/30/1982	15,535	0	46,568	0
200060	Recreation Improvements	1/1/1970	31,308	0	259,940	0
200061	Soulajule Bridge Replacement	6/30/1996	336,894	148,233	687,071	302,310
200062	Sky Oaks House 6/81	6/30/1981	63,365	0	205,528	0
200063	Alpine Dam Redecking	5/31/1988	48,649	0	123,436	0
200064	Soulajule Access Rd Bridge	6/30/1990	30,564	0	74,060	0
200065	Ada Conversion To Parking Lot	6/30/1994	62,607	0	132,749	0
200066	"Car Wash Rack System, Yard"	1/1/1994	55,531	0	117,745	0
200067	Soulajule B&S Closed 6/81	6/30/1981	49,672	0	161,114	0
200068	Corp. Yard Replacement	6/30/1982	24,739	0	74,159	0
200068	CORPORATION YARD LIGHTING	1/31/2009	15,413	3,083	20,622	4,124
200068	CORPORATE YARD MAINTENANCE PLANNER OFFICE	12/31/2009	6,268	3,918	8,386	5,241
200068	F & W ADMIN BUILDING REROOFING PJCT	10/31/2011	97,859	13,592	123,713	17,182
200073	"Watershed Study,Phase I"	1/1/1980	187,235	0	663,218	0
200074	Sediment Control Sg Creek	11/1/1996	482,516	0	984,056	0
200075	Paving Lagunitas Park Lot	2/28/1986	135,226	0	361,001	0
200075	SLURRY SEAL LAGUNITAS PARKING LOT- RESURFACING	2/28/1986	15,925	6,039	42,514	16,121
200076	ADA Upgrades - Watershed	6/30/1997	97,329	0	191,581	0
200078	10'X 24' Modular Trailer	12/1/1999	10,832	0	20,497	0
200079	MMWD Office HVAC Imprv	1/1/2001	7,177	0	12,975	0
200080	SGTP - ADA Improvements	6/1/2000	71,974	28,647	132,653	52,798
200086	Fence At Nicasio Re	7/1/2000	24,960	0	46,003	0
200087	Reroof Soulajule Ranger Resid	6/30/1999	12,410	0	23,483	0
200088	Worn Springs Erosio	1/1/2001	40,269	0	72,803	0
200089	Reroof Alpine Ranger Residence	6/1/1999	4,750	0	8,988	0
200090	Natalie Coffin Green	12/1/2001	352,489	0	637,273	0
200091	West Point Inn Upgr	1/1/2000	7,129	2,764	13,138	5,094
200094	Sediment Control Sg Creek Center	3/31/1998	11,323	0	21,929	0
200095	Bottled Wtr - Capit	7/1/1999	15,265	0	28,885	0
200096	Forbes Hill Reservoir Roof Project	6/30/1997	43,132	0	84,900	0
200097	Sediment Control Sg Creek - Capitalized Interest	11/1/1996	36,519	0	74,478	0
200098	Lower Catarac Trail Rep	1/1/1999	37,951	0	71,813	0
200099	Lower Catarac Trl-Phase Ll	12/1/1998	25,000	0	48,417	0
200100	Marin Stables Upgrade	7/1/1998	49,475	17,320	95,818	33,543
200101	West Point Inn Upgrades Ad	3/1/1999	63,320	23,220	119,816	43,937
200102	Firefighting Equipment	11/30/1981	3,444	0	11,171	0
200103	Pipe/Cup Locator	9/1/2000	2,574	0	4,744	0
200104	Automatic Gate - Sky Oaks Ranger Station	6/30/1997	11,380	0	22,400	0
200105	Handicup Modification Off	6/30/1982	2,985	0	8,948	0
200106	Motorized Fence Gate	11/30/1985	2,968	0	8,112	0
200107	Install Partition Acct/Dp	5/31/1989	2,852	0	7,086	0
200108	Data Processing Partition	5/31/1988	3,164	0	8,028	0
200109	"2,000 Gal Fuel Tk Sky Oak"	2/28/1990	4,726	0	11,452	0
200110	Sky Oaks Residence	5/31/1982	538,879	480,930	1,615,368	1,441,658
200110	SKY OAKS RESIDENCE TEMPORARY OFFICE SPACE IMPROV	12/31/2009	24,834	15,780	33,225	21,112
200111	Building Security System	5/31/1988	2,636	0	6,688	0
200112	Lagunitas Dam Lk Beepers Water	6/30/1982	6,249	0	18,732	0
200113	Steel Roll Up Door	11/30/1991	8,900	0	21,106	0

Appendix B - Table 7, Asset Class 2000 Buildings **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
200114	Wash Water Recov Pnd Fenc	2/29/1992	6,740	0	15,503	0
200115	Fish Grade Gate Installation	6/1/1997	15,164	0	29,849	0
200116	Bullet Proof Glass	12/1/1981	7,716	0	25,027	0
200117	Partition Purch/Engineer	6/30/1985	3,604	0	9,851	0
200118	Cabinets/Counter Top/Yard	1/31/1985	3,509	0	9,591	0
200119	Soulajule Pump Sta Access	1/1/1984	3,934	0	10,880	0
200120	Heating/Cooling Unit	11/30/1985	3,404	0	9,304	0
200121	New Carpets - San Geronimo And Bon Tempe Locations	6/1/1997	6,681	0	13,151	0
200122	Steel Rolling Door	5/31/1992	3,860	0	8,879	0
200123	Soulajule Bridge Replacement	3/31/1998	17,678	6,077	34,237	11,770
200124	Entrance Sign Replacement Prog	6/30/1999	6,325	0	11,968	0
200125	Porteous Rngr Res F	1/1/2000	101,866	39,483	187,746	72,770
200126	SGTP - Furnace	6/30/1998	13,450	4,708	26,048	9,118
200127	Leo Cronin Memorial At Laganitas Creek	4/1/1996	5,053	1,484	10,305	3,027
200128	Customer Service Office	6/30/1995	3,685	1,013	7,723	2,123
200129	Water Quality Lab Expansion	6/30/1995	12,577	3,459	26,358	7,249
200130	Nicasio Dam Spillway Bridge	4/1/1996	24,506	10,660	49,978	21,741
200131	District Office Landscape	7/1/1992	2,687	0	6,181	0
200132	Alpine Dam Bridge	6/30/1982	2,410	0	7,224	0
200133	20' Steel Storage Contain	6/30/1990	3,055	0	7,403	0
200134	Conifer Wy Tank Sei	1/1/2000	154,220	59,776	284,236	110,171
200135	Alpine Bridge Deck	6/30/1982	2,006	0	6,013	0
200136	Seismic Upgrades And Space Modifications	6/30/1997	20,547	6,677	40,444	13,144
200137	Modification Material Off	6/30/1990	2,188	0	5,302	0
200138	EMERGENCY MATERIALS STORAGE BUILDING	5/1/2002	511,084	228,435	896,311	400,618
200140	LGTP CONTROL BUILDING COATING	11/6/2002	14,673	0	25,733	0
200141	WINDOW REPLACEMENT SOUAJULE RESIDENCE	3/31/2006	10,790	661	15,961	978
200142	WATERSHED STRUCTURES INSPECTION	7/31/2003	19,914	0	34,107	0
200142	WATERSHED STRUCTURES INSPECTION	6/30/2004	10,088	0	16,256	0
200143	ALPINE RANGER RESIDENCE CABINETS INSTALLATION	7/31/2003	4,093	0	7,011	0
200144	PHOENIX LAKE RESIDENCE- ELECTRICAL	6/30/2004	2,868	0	4,622	0
200145	REPLACE VAULT TOILET PHOENIX DAM	8/31/2003	2,853	0	4,886	0
200145	REPLACE VAULT TOILET PHOENIX DAM	6/30/2004	210	0	339	0
200147	INKWELL BRIDGE DESIGN	7/31/2003	10,100	0	17,299	0
200147	INKWELL BRIDGE CONSTRUCTION	6/30/2005	948,956	31,732	1,461,269	48,864
200147	INKWELL BRIDGE DESIGN	6/30/2004	64,500	0	103,942	0
200148	WATER QUALITY LABORATORY-CONSTRUCTION	6/30/2004	3,976,464	1,985,042	6,408,095	3,198,907
200148	WATER QUALITY LABORATORY-DEMOLITION	6/30/2004	136,892	71,868	220,602	115,816
200148	WATER QUALITY LAB(FORMER) COMPUTER EQUIP	5/31/2006	35,679	0	52,778	0
200148	WATER QUALITY LAB(FORMER) FURNITURE	5/31/2006	8,730	0	12,913	0
200149	SGTP CHEMICAL ROOM LIGHTING	6/30/2005	21,878	1,003	33,690	1,544
200149	SGTP CHEMICAL ROOM LIGHTING PHASE II	6/30/2005	23,848	1,093	36,723	1,683
200150	BON TEMPE TREATMENT PLANT PERIMETER FENCING	12/31/2005	254,671	0	392,160	0
200150	SGTP PERIMETER FENCING	12/31/2005	227,087	0	349,684	0
200151	LAGUNITAS SEPTIC SYSTEM REPAIR- RANGER RESIDENCE	12/31/2005	48,929	25,669	75,345	39,527
200152	ALPINE DAM RANGER RESIDENCE DRIVEWAY	12/31/2005	7,800	390	12,011	601
200153	FUELING SYSTEM UPGRADE PROJECT	2/28/2006	471,262	35,381	697,113	52,337
200154	CORPORATION YARD PERIMETER FENCE PJCT	3/31/2006	167,768	0	248,170	0
200155	ROCK STORAGE SHELTER AT PELICAN WAY YARD	6/30/2006	120,435	9,033	178,153	13,361
200156	CORP YARD ASBESTOS ABATEMENT & REROOF	11/30/2010	169,532	15,070	220,920	19,637
200157	2005/06 FFMP CONCRETE ROAD RETAINING WALLS	6/30/2007	201,171	28,501	289,523	41,018
200158	AUTO SHOP INTERIOR LIGHTING INSTALLATON	9/30/2008	8,655	1,731	11,942	2,388
200159	WELDING SHOP INTERIOR LIGHTING	1/31/2009	8,185	1,637	10,951	2,190
200160	AUTO SHOP EXHAUST EXTRATION SYSTEM	1/31/2009	32,459	6,492	43,427	8,685
200161	GARAGE AT PHOENIX LAKE	1/31/2009	34,629	6,926	46,330	9,266
200162	SLOPE MONITORING WELLS- PHOENIX CABIN	1/31/2009	9,461	6,433	12,658	8,607
200164	WATERSHED SIGN REPLACEMENT	1/31/2009	2,818	0	3,770	0
200165	SKY OAKS CONFERENCE ROOM	1/31/2009	28,160	5,632	37,675	7,535
200166	DIBBLE ROAD, ROSS, PAVING PROJECT	1/31/2009	22,000	0	29,434	0

Appendix B - Table 7, Asset Class 2000 Buildings **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
200167	MARIN STABLES SITE EVALUATION	3/31/2009	4,154	0	5,557	0
200168	WAREHOUSE EXTERIOR STORAGE SYSTEM	3/31/2009	45,913	9,183	61,427	12,286
200169	WEST PEAK SITE EVALUATION STUDY	3/31/2009	47,491	0	63,539	0
200170	CORPORATION YARD GENERATOR FUEL TANK	3/31/2009	20,572	4,114	27,523	5,505
200171	WATERSHED ENTRANCE SIGN	12/31/2009	2,465	616	3,298	824
200172	PETER'S DAM ROAD PAVEMENT REPLACEMENT	12/31/2009	460	0	616	0
200173	KENT LAKE EAST CRIB WALL REPLACEMENT	12/31/2009	879	0	1,177	0
200174	NEW SKY OAKS MODULAR BUILDING	12/31/2009	110,590	27,770	147,959	37,154
200174	NEW SKY OAKS MODULAR BUILDING	12/31/2009	10,081	0	13,488	0
200175	YARD STRUCTURES & MAIN OFFICE SEISMIC STUDY	12/31/2009	73,413	0	98,220	0
200176	YARD SCADA TELEMETRY ANTENNA REPLS	1/31/2010	24,250	6,063	31,601	7,900
200177	MT TAMALPAIS RADIO TOWER PROJECT	10/31/2010	170,246	110,660	221,850	144,202
200178	TRIPLE C RANCH CULVERT REHABILITATION PJCT	11/30/2010	58,735	38,178	76,539	49,750
200179	EXIT SIGNS/ BACK-UP LIGHTING ADMIN & CORP YARD	12/21/2010	7,353	0	9,582	0
200181	CONCRETE PIPE ROAD RETAINING WALL	12/31/2010	1,796	0	2,341	0
200182	SOULAJULE PUMP STATION DIESEL TANK UPGRADE	3/31/2011	303,853	101,716	384,129	128,588
200185	ADMIN BUILDING FRONT PARKING LOT & ENTRY	3/1/2012	270,127	186,838	332,748	230,151
200186	BON TEMPE TREATMENT PLANT RE-ROOFING	6/30/2012	154,232	29,991	189,986	36,943
200187	ADMIN BUILDING FRONT LOBBY REMODEL	2/1/2013	347,542	248,393	417,415	298,331
200188	ADMIN BUILDING REMODEL	7/1/2012	14,664	5,865	18,063	7,225
200189	SKY OAKS MODULAR BULDING II	6/1/2013	183,536	81,826	220,435	98,277
200190	WATER QUALITY SAMPLE STATIONS	10/3/2013	55,933	40,901	67,178	49,124
200191	STRUCTURAL ASSESSMENT OF WATERSHED BUILDINGS	3/1/2014	27,696	0	32,384	0
200192	PORTEOUS RANCH RESIDENCE REPAIR PROJECT	3/1/2014	15,611	10,234	18,253	11,966
200193	CORP YARD PORTABLE BUILDING REPLACEMENT	3/1/2014	92,754	28,857	108,456	33,742
200194	LGVRP LAB	3/1/2014	33,755	22,128	39,470	25,874
200195	CORPORATION YARD SECURITY FENCE	4/30/2014	13,610	4,310	15,914	5,039
200196	SOULAJULE GATE REPLACEMENT	8/1/2014	24,699	1,206	28,880	1,410
200197	TRAILHEAD KIOSK PROJECT	8/1/2014	11,966	3,989	13,992	4,664
200199	VAULT TOILET CONVERSION-LAGUNITAS	8/1/2014	19,263	9,631	22,524	11,262
200200	WATERSHED ENTRANCE SIGNS	8/1/2014	41,475	6,912	48,496	8,083
200201	TRAILHEAD KIOSK AND SIGN PROJECT	8/1/2014	2,435	812	2,847	949
200202	ADMINISTRATION KITCHEN REMODEL	8/1/2014	2,775	925	3,245	1,082
200203	MMWD SECURITY MANAGEMENT PROJECT	8/1/2014	135,286	45,095	158,188	52,729
200204	CORTE MADERA OFFICE ADA IMPROVEMENTS	7/1/2014	5,996	4,497	7,011	5,258
200205	LOBBY DOOR MODIFICATIONS	7/1/2014	25,721	0	30,075	0
200206	PAVING CORPORATION YARD	7/1/2014	114,492	38,164	133,874	44,624
200207	SKYOAKS HEADQUARTERS EXTERIOR PAINTING	7/1/2014	37,263	0	43,571	0
200208	SKYOAKS ENERGY EFFICIENCY UPGRADES	7/1/2014	4,411	0	5,157	0
200209	SKY OAKS GATEWAY-FACILITIES IMPROVEMENT	4/1/2015	132,036	54,182	146,485	60,112
200210	SKY OAKS ROAD PAVING REPAIR	4/1/2015	24,500	1,838	27,181	2,039
200211	SKY OAKS HEADQUARTERS PAVING REPAIR	4/1/2015	182,498	13,687	202,469	15,185
200212	ADMIN BUILD PARKING LOT LIGHTING	4/1/2015	91,358	35,021	101,356	38,853
200213	2015 ADMIN BUILD EMERGENCY RE-ROOFING	5/1/2015	301,143	117,111	334,098	129,927
200215	CORTE MADERA SLOUGH OUTFALL REINFORCEMENT	2/9/2016	21,189	9,245	23,394	10,208
200216	ADMINISTRATION BUILDING REMODEL	6/30/2016	229,205	182,886	253,063	201,923
200218	OPERATIONS BUILDING ROOF REPLACEMENT	1/31/2019	16,892	12,247	17,169	12,447
200219	THROCKMORTON FIRE STATION ROAD REPAIR	1/31/2019	21,000	13,300	21,344	13,518
200220	SOUTHERN MARIN LINE SLIDE REPAIR	1/31/2019	247,572	156,802	251,632	159,374
200221	CONCRETE PIPE ROAD SLIDE REPAIR AT CP9	1/31/2019	278,027	176,084	282,587	178,972
200222	CONCRETE PIPE ROAD SLIDE REPAIR AT CP26	1/31/2019	439,849	278,571	447,062	283,139
200223	FY20 MINOR SYSTEM IMPROVEMENT	2/17/2021	61,489	19,471	67,697	21,437
200224	ADMIN & CORP YARD SEWER LATERAL REPLACEMENT	4/26/2021	313,837	288,338	345,524	317,451
200225	LOG CABIN PROJECT	5/21/2021	72,392	57,109	79,701	62,875
200226	PORTEOUS RESIDENCE REPAIR	5/21/2021	526,229	484,569	579,362	533,496
200227	SOULAJULE RESIDENCE PROJECT	5/31/2021	37,652	31,690	41,454	34,890
200228	CORP YARD VEHICLE CHARGING STATIONS	5/31/2021	13,677	10,790	15,058	11,879
200229	ADMIN BUILDING HEAT EXCHANGER	5/31/2021	5,828	4,598	6,416	5,062
200230	ADMIN BUILDING SECURITY CAMERAS	1/12/2022	59,582	49,652	61,191	50,992

Appendix B - Table 7, Asset Class 2000 Buildings **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
200231	MINOR SYSTEM IMPROVEMENTS	1/26/2022	31,532	15,766	32,384	16,192
Totals Asset Class 2000 Buildings			**$24,841,524**	**$7,605,181**	**$57,437,829**	**$11,650,674**

Appendix B - Table 8, Asset Class 3000 Dams & Reservoirs **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300000	Reservoir Sensors Lakes	5/31/1987	$47,212	$0	$122,863	$0
300001	Kent Lake Access Road	5/31/1988	99,433	9,942	252,290	25,225
300002	Alpine Dam Tower Valves	4/1/1996	187,508	26,990	382,409	55,043
300003	"Lake Aeration Replacements Phoenix, Kent, Alpine"	1/1/1995	150,897	16,003	316,237	33,538
300004	Nicasio Lake Aerator Replacement	6/30/1995	200,089	24,254	419,329	50,830
300005	Soulajule Dam	6/30/1997	120,595	0	237,377	0
300006	Lagunitas Spillwy Rehab	6/30/1984	147,922	28,109	409,087	77,737
300007	Concrete Pipe	1/1/1920	57,431	0	2,623,521	0
300008	Lagunitas Spillway Redecking	12/31/1992	79,987	0	183,984	0
300009	Nicasio Lake Aerator Replacments	9/1/1995	52,924	6,682	110,914	14,003
300010	Phoenix Spillway Design	12/31/1982	56,569	33,075	169,574	99,148
300011	Lagunitas Spillway Concrete Lining	6/30/1997	92,638	16,843	182,347	33,154
300012	Nicasio Dam Roadway Repair	6/30/1997	99,345	18,064	195,549	35,556
300013	Lagunitas Spillwy Repairs	6/30/1985	30,218	759	82,593	2,074
300014	Soulajule Stream Release	6/30/1996	63,973	0	130,468	0
300015	Kent Hydropower Installat	5/31/1987	32,920	0	85,670	0
300016	C.M. Tunnel	1/1/1973	78,618	38,110	475,691	230,589
300017	Alpine	2/1/1942	1,443,927	266,743	59,985,750	11,081,427
300018	Kent	1/1/1955	2,702,709	823,562	46,953,426	14,307,510
300019	Nacasio	1/1/1963	3,535,879	1,360,306	44,997,102	17,311,058
300020	Kent Dam - Raised	6/30/1982	10,018,470	5,723,860	30,031,837	17,158,112
300021	Soulajule Dam	1/1/1979	10,772,854	5,868,146	41,132,715	22,405,648
300022	Ross Reservoir Seismic	1/1/2001	25,850	0	46,736	0
300023	Terra Linda Reclaim	7/1/1999	8,799	5,132	16,650	9,711
300024	Soulajule Dam	1/1/1979	54,144	13,091	206,732	49,983
300025	Pine Mountain Tunnel	1/1/1920	365,750	0	16,707,926	0
300025	PINE MOUNTAIN TUNNEL INTERIM REPAIRS	5/31/2011	214,368	143,836	271,002	181,836
300026	Phoenix	1/1/1970	193,274	87,880	1,604,692	729,639
300027	Alpine Seismic Investigat	5/31/1987	213,850	16,040	556,515	41,743
300028	Eir-Raising Kent	1/1/1980	368,744	149,951	1,306,153	531,153
300029	Soulajule Job Closed 6/81	6/30/1981	600,749	331,494	1,948,568	1,075,221
300030	Soulajule Dam	1/1/1979	621,016	315,529	2,371,152	1,204,748
300031	Kent	3/31/1983	964,239	566,079	2,719,126	1,596,326
300032	Phoenix Spillway Rehab	8/31/1986	729,114	174,990	1,946,454	467,155
300033	Bon Tempe	1/1/1949	562,212	137,587	13,514,304	3,307,289
300034	Lagunitas	1/1/1922	11,369	0	749,178	0
300035	Nicasio Scouring Val/Repl	6/30/1985	3,938	0	10,764	0
300036	Cataract Pipe	1/1/1920	3,417	0	156,093	0
300037	Nicasio Spillway Riprap Repair	1/1/1996	23,614	3,220	48,159	6,566
300038	Alpine Dam Stream Gauge	6/30/1985	10,431	259	28,511	708
300039	Bon Tempe Log Boom Replacement	6/30/1997	26,614	0	52,387	0
300040	Eldridge Grade Slide Evaluation Above Phoenix Lake	6/30/1997	27,084	0	53,312	0
300041	Kent Lk Hi Level Outlet	5/31/1986	7,785	0	20,783	0
300042	Kent Project Settlement	6/30/1984	25,632	15,373	70,887	42,514
300043	Kent Project General	6/30/1984	14,452	8,693	39,968	24,042
300044	Kent Lake Stream Rl	1/1/2000	3,596	927	6,628	1,708
300045	Prep Of Plans And Specifications	3/31/1998	2,155	0	4,174	0
300046	Soulajule Dam	1/1/1980	2,025	1,137	7,173	4,027
300047	Soulajule Lake Log Boom	6/30/1996	8,323	0	16,974	0
300048	Cathodic Protection Other Facilities	4/1/1996	12,750	3,745	26,003	7,637
300049	Chapman Resevoirs	1/1/1974	7,132	3,534	40,483	20,061
300050	Lake Aerator Replacement	6/30/1996	14,500	2,197	29,572	4,481
300051	Cathodic Protection Other Structures	6/30/1995	15,309	4,209	32,083	8,821
300052	Lagunitas Lk Drainage Adi	6/30/1984	15,947	0	44,102	0
300053	Bon Tempe Inlet Supplylin	1/31/1985	32,266	15,274	88,191	41,748
300053	BON TEMPE LAKE INTAKE PIPING EXTENSION	6/30/2006	128,870	96,223	190,631	142,338
300054	Kent Dam Enlargement	2/28/1990	47,234	25,506	114,454	61,804
300055	Kent Lade Debris Boom	10/31/1984	18,636	232	51,539	642
300056	Reservoir Level Sensors	5/31/1988	12,087	0	30,668	0
300057	Phoenix Lake Aerator Replacement	6/30/1997	64,837	11,789	127,624	23,204
300058	Alpine Dam-New Pipe Boom	11/30/1981	8,286	0	26,876	0
300059	Eir-Raising Kent	1/1/1978	28,470	10,812	117,593	44,659

Appendix B - Table 8, Asset Class 3000 Dams & Reservoirs **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300060	Lake Aerator Replacements	6/30/1997	55,742	10,136	109,722	19,951
300061	Lagunitas Spillway Design	9/30/1982	23,794	13,913	71,326	41,706
300062	Soulajule Plunge Pool	10/31/1984	14,086	2,955	38,956	8,173
300063	1980/81 Cap'Lzed Soul 76B	6/30/1981	23,359	13,304	75,766	43,153
300064	Nicascio Lake Silt Monitoring Program	6/30/1997	35,340	0	69,563	0
300065	Kent Lake Piezameter	5/31/1987	9,564	0	24,889	0
300066	Nicasio Outlet Works	1/31/1991	25,669	4,224	60,872	10,017
300067	Geotechnical Evaluation Rpt	3/31/1998	49,664	0	96,184	0
300068	Kent Lk Spillwy Guardrail	1/1/1984	7,038	0	19,464	0
300290	LAKE LAGUNITAS LOG BOOM	5/1/2002	9,522	0	16,699	0
300295	KENT LAKE AERATOR LIFTING FRAME	12/1/2001	58,202	0	105,224	0
300297	ADA WATERSHED GATE ACCESS	12/1/2001	12,516	0	22,628	0
300299	KENT LAKE PUMP BARGE MODIFICATIONS	12/1/2001	11,079	0	20,030	0
300317	BON TEMPE LAKE OUTLET SYSTEM REPAIR	12/31/2005	170,664	138,238	262,800	212,868
300339	KENT LAKE STREAM RELEASE VALVE REPLS	1/31/2009	21,804	11,837	29,172	15,836
300353	SOULAJULE SPILLWAY /OUTFALL REPAIR PJCT	5/31/2011	180,196	101,113	227,802	127,826
300364	KENT LAKE AERATOR REPAIR	10/28/2013	185,705	125,211	223,040	150,384
300368	ASBESTOS REMOVAL AT SOULAJULE	4/1/2014	60,833	0	71,131	0
300371	ALPINE DAM PIEZOMETER #3 REMOTE READOUT	5/21/2014	11,351	0	13,272	0
300377	ALPINE DAM OUTLET WORKS IMPROVEMENT PROJECT	10/1/2014	247,299	150,853	289,163	176,389
300381	BON TEMPE OUTLET WORKS PROJECT	7/1/2014	19,058	17,152	22,284	20,056
300382	PETERS DAM PIEZOMETER #8 REPLACEMENT	7/1/2014	117	0	136	0
300384	LAGUNITAS DAM LEAK REPAIR PROJECT	7/1/2014	44,725	33,544	52,296	39,222
300385	SOULAJULE METER REPLACEMENT	7/1/2014	18,682	9,341	21,844	10,922
300389	PINE MOUNTAIN TUNNEL REPAIR	7/1/2014	1,517,311	1,140,526	1,774,168	1,333,599
300393	FORBES HILL RESERVOIR COVER&LINER REPL	3/1/2015	391,679	343,301	434,542	380,869
300393	FORBES HILL RESERVOIR-PIPING	3/1/2015	76,420	69,263	84,783	76,843
300393	FORBES HILL RESERVOIR-LINER	3/1/2015	802,410	618,180	890,221	685,830
300393	FORBES HILL RESERVOIR-ROOF	3/1/2015	2,560,069	2,088,008	2,840,227	2,316,507
300396	ALPINE DAM INTAKE TOWER VALVE REPLACEMENT	4/1/2015	29,110	21,975	32,295	24,380
300398	LAKE LAGUNITAS LOG BOOM REPLACEMENT	4/1/2015	27,095	14,564	30,060	16,157
300403	EVAPORATION STATION AT SKYOAK & SEEGER	2/9/2016	59,418	26,078	65,603	28,792
300407	PHOENIX DAM PIEZOMETER INSTALLATION	7/1/2015	5,000	0	5,547	0
300410	SOULAJULE ENVIRONMENTAL ENHANCEMENT	3/19/2018	766,907	0	794,915	0
300411	BON TEMPE SCOUR VALVE REPL	4/9/2018	14,833	13,597	15,375	14,094
300415	KENT LAKE 18" STREAM VALVE REPLS	1/31/2019	20,572	17,340	20,910	17,624
300418	PHOENIX DAM ROAD SLIDE REPAIR AT SPILLWAY	5/31/2019	187,180	138,825	190,250	141,102
300420	ALPINE DAM MISC REPLACEMENT-RAILING	10/31/2020	27,827	23,653	27,827	23,653
300424	BON TEMPE DAM REPAIR	5/31/2021	25,661	23,629	28,252	26,015
300427	BON TEMPE DAM EMBANKMENT ROCK ARMORING	2/19/2021	1,560	1,427	1,718	1,571
300429	KENT LAKE AERATOR VENT LINES REPLACEMENT	10/15/2021	148,169	135,822	163,130	149,536
300430	NICASIO DAM SPILLWAY REPAIR	12/30/2021	419,511	400,465	461,869	440,899
300431	KENT DAM SPILLWAY REPAIR	12/30/2021	490,842	468,145	540,402	515,413
300432	SOULAJULE DAM SPILLWAY REPAIR	12/31/2021	308,174	296,481	339,290	326,416
300433	BON TEMPE LAKE COMPRESSOR REPLACEMENT	1/12/2022	32,639	24,479	33,520	25,140
300436	ALPINE DAM INTAKE VALVE REPAIR	3/1/2022	393,414	367,186	404,036	377,101
Totals Asset Class 3000 Dams & Reservoirs			**$45,172,796**	**$23,270,948**	**$286,004,753**	**$100,348,461**

Appendix B - Table 9, Asset Class 3100 Storage Tanks **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300069	Old Quarry Subdivision	2/28/1989	$96,925	$39,579	$240,811	$98,335
300072	Greenbrae	1/1/1956	27,232	0	451,217	0
300072	2010-11 FFMP SEISMIC TANK RETROFIT PJCT	10/31/2011	223,027	174,746	281,948	220,913
300076	Redwood Tank Lining Project	6/30/1997	260,383	143,210	512,534	281,893
300077	BUCKEYE CIRCLE	6/30/1984	62,397	20,278	172,562	56,080
300078	Tank Coating Maintenance	6/1/1995	182,903	94,246	383,312	197,513
300080	H LINE ROAD	6/30/1999	567,922	331,288	1,074,641	626,876
300083	Chula Vista	1/1/1969	50,048	3,757	452,207	33,946
300084	Redwood Tank Reroofing	5/31/1989	35,375	0	87,889	0
300085	Tank Recoating - Steel	6/30/1996	344,979	183,988	703,560	375,230
300086	MANZANITA AVENUE	6/30/1997	432,444	237,845	851,216	468,170
300086	MANZANITA AVENUE TANK WALL STABALIZATION	5/31/2009	230,653	143,197	308,593	191,585
300087	Steel Storage Tank Coating	6/30/1995	306,612	158,416	642,571	331,995
300089	COUNTRYVIEW DRIVE	1/1/1972	54,259	6,789	354,897	44,403
300091	Marinwood	1/1/1956	30,135	0	499,318	0
300092	Lattie Lane	1/1/1968	40,944	2,399	406,462	23,814
300093	INVERNESS DRIVE	6/30/1997	383,609	210,986	755,090	415,301
300094	Marin Professional Cntr	1/1/1965	43,005	351	507,822	4,142
300095	LONE TREE AVENUE TANK PJCT	6/30/1997	393,528	216,441	774,614	426,038
300096	FAIRHILLS TOP #1	10/31/1984	63,057	21,544	174,388	59,582
300098	Alto Tank	6/30/1991	39,746	2,270	94,254	5,384
300099	WINSHIP PARK	12/31/1980	32,171	8,371	113,955	29,651
300101	Miller Creek	1/1/1967	20,808	862	222,146	9,198
300101	MILLER CREEK TANK SITE PAVING	12/31/2009	4,500	0	6,021	0
300103	San Quentin Tank	7/1/1996	129,452	69,041	264,008	140,804
300105	SCENIC AVENUE, SAN ANSELMO	3/31/1982	29,380	8,555	88,071	25,644
300106	Tank Security/Safety	5/31/1988	9,919	0	25,167	0
300107	Lucas Valley Tank And Pump Station	7/1/1997	149,465	82,206	294,204	161,813
300110	HIND TANK #1	1/1/1978	34,311	7,717	141,718	31,876
300114	Las Cresta Asses District	6/30/1985	59,033	20,661	161,352	56,471
300115	Cathodic Protection Tanks	5/31/1988	19,259	0	48,866	0
300118	Hind #2	1/1/1958	19,082	0	288,266	0
300119	Tank Security/Safety	5/31/1986	13,928	0	37,182	0
300120	SUMMIT AVENUE UPPER	6/30/1975	32,119	5,894	166,490	30,550
300124	Puerto Suello	1/1/1958	108,200	0	1,634,547	0
300125	Alto Tank #2	5/31/1988	369,341	147,735	937,124	374,847
300126	ALTA AVENUE	6/30/1996	963,835	514,045	1,965,671	1,048,357
300127	Recoat 6 Steel Tanks	11/30/1986	85,172	0	227,377	0
300128	Oak Manor Top Tank Rplcmn	5/31/1989	487,641	203,185	1,211,547	504,814
300129	Slide Gulch	1/1/1927	109,790	0	6,110,933	0
300130	CREEKSIDE DRIVE	6/30/1990	416,870	180,643	1,010,126	437,719
300131	Elinor Tank	10/1/1975	156,846	31,371	813,018	162,611
300132	2014 LOS RANCHITOS TANK RECOSTING PROJ	8/1/2014	603,420	364,063	705,569	425,693
300133	Glenwood	1/1/1958	94,129	0	1,421,980	0
300134	ALTO #1	1/1/1966	116,028	2,896	1,305,571	32,582
300136	ALTO #1	1/1/1958	104,540	0	1,579,256	0
300137	Hawthorne Hills Upper Tnk	5/31/1986	112,496	0	300,321	0
300138	Peacock Gap Tank	5/31/1987	674,428	258,533	1,755,105	672,797
300139	Terra Linda Reclaimed Pipe	7/1/1993	295,134	0	649,469	0
300140	Paradise Dr Tank	9/1/1976	398,360	80,964	1,902,372	386,646
300141	Recoating Alto Tank 2	2/28/1990	265,870	0	644,235	0
300142	Alto Tank 2 Phase 2 & 3	2/28/1990	1,491,272	633,780	3,613,530	1,535,724
300143	Pacheco Tanks	9/1/1996	4,583,340	2,457,180	9,347,389	5,011,240
300144	Forbes Reservoir Lining	3/31/1987	285,997	107,306	744,267	279,248
300145	Lucas Valley	1/1/1958	156,777	0	2,368,386	0
300145	LUCAS VALLEY TANK FENCING	4/30/2006	5,365	0	7,936	0
300146	Terra Linda Reclaimed Tank Fab	6/30/1994	491,272	46	1,041,671	97
300147	Terra Linda Reclaimed Tank	7/1/1993	431,715	0	950,028	0
300148	Canon Village Tank	1/1/1978	328,482	73,903	1,356,763	305,249
300149	Mill Valley	1/1/1969	257,005	19,285	2,322,159	174,252
300149	2010-11 FFMP SEISMIC TANK RETROFIT PJCT	10/31/2011	4,636	3,640	5,861	4,602

Appendix B - Table 9, Asset Class 3100 Storage Tanks **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300150	Bret Harte	1/1/1937	143,668	0	7,009,776	0
300151	San Clemente	1/1/1958	85,098	0	1,285,552	0
300151	SAN CLEMENTE TANK FENCING	4/30/2006	5,715	0	8,454	0
300151	2010-11 FFMP SEISMIC TANK RETROFIT PJCT	10/31/2011	56,822	44,515	71,833	56,275
300153	Recoating Steel Tanks	12/31/1992	147,188	0	338,558	0
300154	Hawth Hills Tank Alt Vlv	6/30/1985	41,937	0	114,624	0
300155	Santa Margarita	1/1/1956	55,445	0	918,688	0
300155	SANTA MARGARITA TANK FENCING	4/30/2006	5,715	0	8,454	0
300155	2010-11 FFMP SEISMIC TANK RETROFIT PJCT	10/31/2011	34,835	27,290	44,039	34,499
300156	Marin Bay Park - S.R.	2/29/1988	186,956	73,225	474,361	185,792
300157	Hill Haven Tank Rplcmnt	2/28/1988	188,225	73,721	477,581	187,052
300158	Vernal Ave / Marin Terrace Tank	6/30/1998	795,474	450,768	1,540,585	872,998
300158	Vernal Ave / Marin Terrace Tank	8/1/2014	1,307	1,089	1,528	1,273
300159	MT. TIBURON	1/1/1969	67,253	5,041	607,662	45,546
300159	MT. TIBURON TANK #1 RECOATING	6/30/2009	330,467	247,393	442,135	330,989
300161	Loch Lomond	1/1/1956	49,042	0	812,595	0
300161	LOCH LOMOND TANK FENCING	4/30/2006	5,715	0	8,454	0
300162	Redwood Tank Roof Repair	6/30/1992	63,527	0	146,123	0
300163	TERRA LINDA #1	1/1/1968	68,372	3,977	678,747	39,479
300163	TERRA LINDA TANK SECURITY FENCE	12/31/2009	16,093	0	21,531	0
300165	SPRING LANE #1	1/1/1927	42,593	0	2,370,735	0
300165	SPRING LANE TANK #1 ROOF RETROFIT & RECOATING	5/31/2009	1,702,186	669,503	2,277,371	895,734
300166	Forbes Reservoir Seismic Imps	6/30/1998	181,781	0	352,053	0
300167	Fawn Drive Tank	6/30/1985	210,569	73,703	575,539	201,449
300167	ELDA DRIVE TANK SEISMIC PROJ/FAWN DRIVE TANK TK068	3/1/2014	461,671	302,679	539,825	353,918
300168	Ross Reservoir	1/1/1922	57,378	0	3,781,012	0
300169	"Ring Mountain, Tiburon"	8/30/1990	409,707	224,884	992,769	544,920
300170	Tennessee Valley Tank	1/1/1972	122,170	15,275	799,088	99,911
300171	Escalle - Larkspur	1/1/1972	125,387	15,669	820,130	102,488
300172	Mine Ridge Tanks	6/30/1996	585,052	312,028	1,193,171	636,358
300173	MESA VISTA #1	1/1/1967	74,175	3,097	791,891	33,066
300173	MESA VISTA TANK COATING	4/30/2007	335,620	104,042	483,019	149,736
300174	Painting	6/30/1983	44,944	0	126,741	0
300175	Recoat Smth Sddl Tank #2	10/31/1984	45,479	0	125,775	0
300176	Recoating Steel Tanks	1/31/1994	187,491	0	397,548	0
300177	Rpntng Smith Saddle Tank	6/30/1984	46,565	0	128,778	0
300178	Indian Fire Trail	1/1/1968	86,238	5,038	856,108	50,015
300179	Tank Recoating - Fairfax Grade	1/24/1997	127,157	69,054	250,294	135,924
300180	Other 1981/82	12/31/1981	5,915	1,721	19,186	5,581
300181	Install Liners/Redw	1/1/2001	256,165	155,864	463,127	281,790
300182	SPRING LANE #1	7/1/1999	128,281	74,906	242,738	141,739
300183	Santa Margarita Tank - Floor Patching	6/30/1996	25,824	13,773	52,666	28,089
300185	MARIN PROFESSIONAL CENTER	5/31/1986	2,269	0	6,057	0
300187	MANZANITA- CAPITAL INTEREST	6/30/1998	24,722	14,009	47,879	27,132
300188	Soulajule Turnaround	7/1/1998	6,633	0	12,847	0
300189	FORBS HILL RESERVOIR SEISMIC	7/1/1998	45,481	0	88,082	0
300190	Screening Tank Overflows	8/1/1994	13,275	6,656	28,148	14,114
300191	Vernal Ave / Marin Terr Tank - Cap. Int.	6/30/1998	32,648	18,501	63,229	35,831
300192	Mission Avenue	1/1/1955	2,184	0	37,942	0
300194	Pacheco Ridge Tanks - Capitalized Interest	9/1/1996	35,125	18,713	71,635	38,164
300195	LONE TREE AVENUE TANK PJCT	3/31/1998	55,769	31,371	108,007	60,756
300196	Cloudview	1/1/1965	5,144	35	60,743	416
300196	CLOUDVIEW TANK PAVING	12/31/2009	6,865	0	9,185	0
300197	Upper Road - Ross	2/29/1988	14,264	5,585	36,192	14,171
300199	Skyview Park	1/1/1969	6,322	482	57,122	4,360
300200	Cap Int Alto Tank 2 88/89	9/30/1989	14,645	6,102	36,386	15,161
300201	MANZANITA	3/31/1998	43,123	24,256	83,516	46,977
300202	H LINE ROAD	6/30/1998	46,765	26,500	90,569	51,323
300205	Cathodic Protection Existing Steel Tanks	6/30/1995	27,275	14,092	57,161	29,532
300206	Greenbrae Tank	1/1/1973	5,972	837	36,135	5,063
300207	Strawberry	1/1/1972	2,386	293	15,606	1,918

Appendix B - Table 9, Asset Class 3100 Storage Tanks **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300208	Tank Scour Line Imp	1/1/2001	28,074	17,081	50,755	30,881
300209	ALTA AVENUE	3/31/1998	4,416	2,483	8,552	4,809
300210	Tank Overflow Screening	8/1/1994	2,187	1,097	4,637	2,325
300211	Replace Mine Ridge Tanks	9/1/1996	3,187	1,708	6,500	3,484
300212	Tank Retrofit	8/1/1994	2,399	1,202	5,087	2,550
300213	Lucas Valley Tank & Pump Stn	4/30/1998	2,211	1,082	4,282	2,096
300215	Stream Gage-San Antonio	6/30/1976	3,400	0	16,237	0
300216	Tank Recoating Prjc	7/1/2000	2,104	1,262	3,877	2,327
300217	H LINE ROAD	7/1/2000	3,270	1,963	6,027	3,617
300218	Hawthorne Hills Tank	7/1/2000	3,403	2,042	6,273	3,763
300219	MANZANITA	4/30/1998	2,410	1,359	4,667	2,632
300220	Pacheco Tanks	3/31/1998	2,348	1,297	4,547	2,512
300221	Tank Recoating Project	3/31/1998	5,328	2,997	10,319	5,803
300222	Lucas Valley Tank & Pump Stn	6/30/1998	15,107	8,560	29,258	16,578
300223	Bontempe Washwater	1/1/2000	104,562	61,873	192,714	114,035
300224	Cathodic Protection Steel Tanks	10/1/1994	8,529	4,301	18,085	9,119
300225	Greenwood Way Tank	1/1/1974	2,282	362	12,953	2,057
300226	Tank Coatng Warrant	7/1/2000	22,841	0	42,098	0
300227	INVERNESS DRIVE- CAPITALIZED INTEREST	6/30/1997	17,160	9,438	33,777	18,578
300228	H LINE ROAD	1/1/2000	86,280	51,055	159,019	94,098
300229	Marinship Tank Replacement	7/1/1994	2,822	1,411	5,984	2,992
300230	INVERNESS DRIVE	3/31/1998	7,529	4,236	14,581	8,204
300231	Lucas Valley Tnk & Pump Stn - Cap. Int.	6/30/1998	8,481	4,806	16,425	9,308
300232	Lucas Valley Tank & Pumps	3/31/1998	9,615	5,408	18,621	10,474
300233	Santa Margarita Tank Mod. Floor Repair	6/30/1996	6,878	3,668	14,027	7,480
300234	Tank Coatng Warrant	1/1/2000	27,844	0	51,317	0
300235	C.P. Existing Steel Tanks	8/1/1996	82,804	44,277	168,873	90,301
300237	Tank Recoating Projects	7/1/1998	139,575	79,099	270,314	153,191
300238	Camino Alto - Dist Main	6/30/1983	27,052	11,630	76,286	32,797
300239	Cathodic Protect Tanks	7/1/1998	146,078	82,784	282,908	160,326
300240	Cath Prot @ Mrnwd/S. Marg	6/30/1983	7,307	0	20,606	0
300241	Ring Wall Roundation	3/31/1994	36,719	8,950	77,857	18,978
300242	Vernal Av/Marin Terr Tank	1/1/1999	139,951	80,487	264,821	152,301
300243	ALTA AVENUE	10/1/1996	76,276	40,907	155,559	83,426
300245	C.P. Steel Tanks	6/30/1991	18,815	0	44,618	0
300246	Mariner Highlands #3	1/1/1965	10,410	73	122,926	856
300247	Hawthorne Hills Tank	1/1/2000	784,815	464,403	1,446,463	855,924
300248	Cathodic Protection Tanks	1/31/1994	29,902	0	63,403	0
300249	Alto Tank Down Line	10/1/1975	20,905	4,014	108,362	20,809
300250	Tennessee Valley Tank	2/28/1994	36,759	0	77,942	0
300251	MARIN PROFESSIONAL CENTER TANK RECOATING	3/23/1997	127,157	69,407	250,294	136,619
300252	MILLER CREEK TANK RECOATING	2/28/1997	127,157	69,231	250,294	136,272
300254	Cath Protection Stl Tanks	5/31/1989	11,625	0	28,882	0
300255	Madera Park	1/1/1973	18,180	2,575	110,001	15,580
300259	Cath Prot Steel Tanks	8/30/1987	8,768	0	22,817	0
300261	1998-99 Steel Tank	1/1/2000	1,033,673	611,613	1,905,124	1,127,241
300264	Tank Recoating Prjct	5/1/1999	118,939	69,056	225,061	130,670
300265	Tank Overflows Screening	1/1/1999	103,281	59,399	195,431	112,397
300266	Tank Recoating	1/1/2000	179,252	0	330,372	0
300268	Cushing	1/1/1929	4,503	0	249,427	0
300269	Steel Storage Tanks - Coating	6/30/1996	49,747	26,532	101,455	54,111
300270	Bolsa Tank Replacement	1/1/1978	9,205	2,077	38,020	8,580
300271	Lucas Valley Tank S	7/1/1999	90,331	1	170,928	1
300272	White Hill	1/1/1970	6,935	626	57,579	5,195
300274	REDWOOD DRIVE UPPER	6/30/1995	39,625	20,473	83,043	42,906
300276	GLENWOOD	6/30/1985	4,695	0	12,833	0
300277	Cap Int On Ctd Alto #2	6/30/1989	29,161	12,637	72,451	31,396
300278	White Hill Tank	4/1/1976	12,755	2,492	60,912	11,899
300280	Tank Recoating Prjc	7/2/1999	338,661	197,568	640,827	373,845
300281	Alto Tank #2	5/31/1989	7,120	0	17,690	0
300282	Upper Summit	1/1/1968	10,217	604	101,427	5,992

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300283	Courtright Tank	1/1/1977	13,055	2,713	58,109	12,074
300284	Sausalito Blvd	1/1/1931	4,711	0	298,433	0
300284	SAUSALITO BLVD TANK RECOATING PJCT	9/30/2008	44,947	8,989	62,018	12,404
300286	Fairfax Grade	1/1/1958	6,986	0	105,536	0
300287	Install Liner Meas Vista - Redwood Tank	6/30/1995	53,185	27,479	111,461	57,589
300288	Meadow Club Upper Tank	7/1/1978	13,665	3,185	56,442	13,154
300291	"WILSON WY TANK, LK UPGRD-CONST."	12/1/2001	758,789	473,255	1,371,831	855,609
300292	EXT.TANK COATING SANTA MARG.-CONST.	2/1/2002	280,985	123,516	492,777	216,616
300293	MT TIB TNK SEISMIC RETROFIT-CONST.	12/1/2001	147,710	64,316	267,049	116,278
300294	2000-01 TANK RECOATING PRGRM-CONST.	5/1/2002	423,625	188,866	742,930	331,223
300296	FENCE INSTALLATION-TANK SITES	12/1/2001	56,072	35,668	101,374	64,485
300298	REPLC WATER TANKS SOULAJULE	12/1/2001	54,501	33,609	98,533	60,762
300300	SUMMIT TRAIL TANK	12/1/2001	405,518	250,131	733,145	452,217
300304	LUCAS VALLEY TANK SEISMIC PJCT	8/7/2002	2,222	1,420	3,897	2,490
300305	MARINWOOD TANK SEISMIC RETROFIT	6/30/2003	105,771	67,605	181,158	115,789
300307	STRAWBERRY TANK 2001-02 RECOATING PJCT	6/30/2003	327,487	212,412	560,897	363,804
300308	REDWWOD TANK LINER REPAIRS	6/30/2003	93,910	60,938	160,842	104,369
300309	HIND TANK LINER INSTALLATION	7/31/2003	5,110	3,321	8,751	5,688
300310	BON TEMPE WATERSHED TANK SEISMIC RETRO	7/31/2003	1,727	1,122	2,957	1,922
300311	2002-03 TANK COATING, PUERTO SUELLO	6/30/2004	565,220	376,080	910,855	606,055
300312	SANTA MARGARITA TANK SITE PAVEMENT RPLS	7/31/2004	15,080	10,053	24,302	16,201
300313	LAS GALLINAS P-4 TANK SITE PAVEMENT RPLS	7/1/2004	5,806	3,871	9,356	6,238
300314	SAN CLEMENTE TANK SITE PAVEMENT RPLS	7/1/2004	11,830	7,887	19,064	12,709
300316	MEADOW CLUB TANK COATING	6/1/2005	6,721	4,481	10,350	6,900
300318	MONTE MAR VISTA TANK REPLS PJCT	1/31/2006	432,963	298,150	640,459	441,037
300319	FAIRFAX MANOR 1ST LIFT TANK REPLS. PJCT.	3/31/2006	595,581	412,771	881,010	610,589
300320	BAY ROAD TANK REPLACEMENT PJCT	3/31/2006	531,120	367,400	785,656	543,474
300321	SAUSALITO BOULEVARD TEMPORARY TANK	3/31/2006	33,455	23,158	49,488	34,256
300322	SPRING LANE TANK PROJECT	3/31/2006	2,911,478	2,022,535	4,306,790	2,991,825
300322	SPRING LANE TANK- LANDSCAPING	9/30/2006	118,095	0	174,692	0
300323	SCOTT TANK #1 & 2 REPLACEMENT PJCT	3/31/2006	654,085	453,961	967,553	671,520
300324	PARADISE DRIVE TANK 2004/05 RECOATING PROJECT	4/30/2006	313,140	217,893	463,210	322,317
300325	MESA VISTS TANK #1 SEISMIC RETROFIT PJCT	4/30/2006	359,658	250,303	532,022	370,260
300326	OAK WOODLANDS TANK REPLS PJCT	5/31/2006	548,412	379,270	811,236	561,034
300326	OAK WOODLANDS TANK #2 REPLS PJCT	5/31/2006	548,412	379,270	811,236	561,034
300327	FAIRHILLS TOP TANK 2 REPLACEMENT PJCT	3/31/2007	479,509	340,459	690,103	489,984
300328	GOODHILL ROAD TANK REPLACEMENT	4/30/2007	486,697	346,811	700,448	499,125
300329	SANTA VENETIA TANK REPLACEMENT	6/30/2007	1,066,383	763,170	1,534,725	1,098,344
300330	KENT WOODLANDS 1ST TANK REPLS	6/30/2007	791,036	566,251	1,138,448	814,942
300331	KENT FIRE TRAIL TANK #2 & PUMP RPLS	6/30/2007	1,293,616	925,365	1,861,754	1,331,773
300332	MARIN CITY TANK REPLACEMENT	2/29/2008	1,230,177	881,816	1,697,395	1,216,727
300332	MARIN CITY TANK SITE PAVING	12/31/2009	16,785	0	22,457	0
300333	MT. TIBURON TANK INSTALLATION	3/31/2008	1,210,296	883,327	1,669,963	1,218,813
300334	TAM WOODS TOP TANK REPLACEMENT	9/30/2008	659,627	484,841	910,151	668,983
300335	MESA VISTA TANK SITE FENCING REPLS	9/30/2008	6,209	0	8,567	0
300336	LUCAS VALLEY TANK SITE PAVEMENT REPLS	9/30/2008	28,185	0	38,890	0
300337	LOCH LOMOMD TANK SITE PAVEMENT REPLS	9/30/2008	10,842	0	14,960	0
300338	PAVING AT LAS RANCHITOS TANK SITE	1/31/2009	14,750	0	19,734	0
300340	1998/99 STEEL TANK SEISMIC	3/31/2009	8,856	6,495	11,849	8,689
300341	SEQUOIA PARK TANKS REPLACEMENT PJCT	3/31/2009	1,069,044	791,536	1,430,285	1,059,004
300342	SEISMIC VALVE OPERATORS-ALTO & SMITH SADDLE TANKS	4/30/2009	1,190	0	1,592	0
300343	GOODHILL TANK RETAINING WALL	4/30/2009	45,518	10,817	60,898	14,473
300344	BEACON HILL STORAGE TANK REPLACEMENT PJCT	6/30/2009	1,075,638	805,391	1,439,107	1,077,540
300345	FRIAR TUCK LANE (LOCKWOOD)TANK REPLACEMENT	10/31/2009	909,140	682,083	1,216,347	912,566
300346	ROMER TANK RETAINING WALL REPLACEMENT	10/31/2009	98,420	39,713	131,677	53,132
300347	OAK MANOR FIRST LIFT TANK REPLACEMENT	12/31/2009	833,662	628,834	1,115,364	841,323
300348	SUMMIT AVENUE LOWER TANK REPLACEMENT PROJECT	1/31/2010	1,051,578	797,599	1,370,328	1,039,363
300349	CASCADE TANKS I & II REPLACEMENT PROJECT	3/31/2010	616,202	468,287	802,983	610,232
300350	RAFAEL HIGHLANDS TANK SEISMIC RETROFIT PJCT	3/31/2010	236,969	180,614	308,798	235,361
300351	GLENWOOD FOREST TANK REPLS PJCT -TK-228	12/31/2010	397,508	306,466	517,998	399,361
300352	SUGAR LOAF TANKS REPLACEMENT PJCT	5/31/2011	1,340,436	1,042,592	1,694,567	1,318,035

Appendix B - Table 9, Asset Class 3100 Storage Tanks **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
300354	KENT FIRE TRAIL TOP TANK REPLS PJCT	10/31/2011	278,701	218,336	352,332	276,018
300355	SWIG TANK REPLACEMENT PROJECT	10/31/2011	408,502	320,600	516,424	405,300
300356	SKY RANCH TANK REPLACEMENT PJCT	2/1/2013	509,233	412,337	611,613	495,237
300357	FERN CANYON TANK REPLACEMENT TK-236	3/1/2013	380,963	309,018	457,555	371,145
300358	TAM WOOD FIRST LIFT TANK REPLACEMENT	7/1/2012	727,135	581,422	895,701	716,208
300359	FAIRFAX MANOR TOP TANK REPLACEMENT	6/1/2013	1,444,708	1,177,881	1,735,163	1,414,691
300360	FAIRVIEW PARK TANK REPLACEMENT PROJECT	3/1/2013	490,274	397,702	588,843	477,658
300361	RAFAEL HIGHLANDS TANK COATING PROJECT	7/1/2012	387,300	201,396	477,084	248,084
300362	2012/13 GLENWOOD TANK COATING PROJECT	6/1/2013	673,794	377,372	809,259	453,241
300363	SAUSALITO PUMP HOUSE TANK RETAINING WALL	7/1/2012	145,283	58,113	178,963	71,585
300365	BRET HARTE TK SEISMIC RETROFIT - CONST	3/1/2014	4,317	3,425	5,048	4,005
300366	SAUSALITO BLVD TEMPORARY TANKS REMOVAL	3/1/2014	7,151	5,304	8,362	6,202
300367	TAM WOODS TOP TANK SOIL STABILIZATION	3/1/2014	75,957	53,532	88,815	62,594
300369	2009/2010 ESCALLE TANK COATING PROJECT	4/1/2014	2,349	0	2,746	0
300370	MARIN CITY TANK EXTERIOR COAT REPAIR	4/1/2014	20,402	0	23,856	0
300372	CONIFER WAY UPPER TANK REPLACEMENT PROJECT	4/14/2014	555,689	460,765	649,759	538,765
300373	2013/14 SKY VIEW TERRACE TANK RECOATING	6/1/2014	258,946	154,511	302,781	180,667
300374	MILL VALLEY TANK MIXER PROJECT	8/1/2014	11,592	1,130	13,555	1,322
300376	WHITE HILL TANK	8/1/2014	210,654	175,545	246,314	205,262
300378	ELDA DRIVE TANK STAIRCASE PROJECT TK068	10/1/2014	111,336	75,155	130,183	87,878
300379	MILL VALLEY TANK REPLACEMENT	7/1/2014	2,175	1,813	2,543	2,119
300380	BRET HARTE TANK RETAINING WALL	7/1/2014	44,834	33,626	52,424	39,318
300383	COUNTY VIEW DRIVE TANK SEISMIC	7/1/2014	151,378	126,148	177,004	147,503
300386	KENT WOODLANDS TANK ALTITUDE VALVE MODIFICATION	7/1/2014	1,435	478	1,678	559
300387	SLIDE GULCH TANK REPLACEMENT	7/1/2014	1,356,438	1,130,482	1,586,061	1,321,855
300388	HIND TANK REPLACEMENT	7/1/2014	326,667	272,750	381,967	318,923
300390	MADERA PARK TANK REPLACEMENT	7/1/2014	105,400	88,379	123,243	103,340
300391	ROSS RESERVOIR TANK REPLACEMENT	7/1/2014	1,126,152	947,186	1,316,791	1,107,529
300392	OAK AVE TANK REPLACEMENT	3/1/2015	938,422	793,146	1,041,117	879,943
300394	LOS RANCHITO TANK BYPASS PIPELINE TK089	4/1/2015	101,535	85,894	112,646	95,294
300395	LUCAS VALLEY TANK BYPASS PIPELINE	4/1/2015	333,349	281,962	369,828	312,818
300397	2013/14 TANK COATING INSPECTION	4/1/2015	32,640	0	36,212	0
300399	2015 COUNTY VIEW DRIVE TANK RECOATING	5/1/2015	248,910	157,643	276,150	174,895
300400	SKY VIEW TERRACE TANK RETAINING WALL&FENCE	5/1/2015	102,073	78,691	113,243	87,302
300401	2013/14 TANK COATING INSPECTION	5/1/2015	29,990	0	33,272	0
300402	LOS RANCHITOS RECTIFIER REPAIR	5/1/2015	15,819	8,569	17,550	9,506
300404	ELINOR TANK REPLACEMENT PROJECT (TK-050)	6/30/2016	613,388	448,131	677,237	494,778
300405	2015 ELDA DRIVE TANK ROCOATING	6/30/2016	302,173	204,470	333,627	225,754
300406	HUMMINGBIRD TANK REPLACEMENT OF ROOF LADDER	6/30/2016	99,716	67,485	110,096	74,509
300408	SUMMIT AVE, UPPER TANK & SLIDE GULCH PS R	6/30/2017	1,475,400	1,301,231	1,575,574	1,389,579
300409	UPPER ROAD TANK REPLACEMENT PROJECT (TK-163)	1/31/2018	643,621	504,170	667,127	522,583
300412	2018 INDIAN FIRE TRAIL TANK COSTING PROJECT	6/30/2018	347,461	312,715	360,151	324,136
300413	2016 LUCAS VALLEY TANK RECOATING PROJECT	6/30/2018	1,107,288	995,022	1,147,728	1,031,361
300414	LOCH LOMOND TANK RECTIFIER ANODE REPLACE	7/31/2018	26,887	6,722	27,869	6,967
300416	LAGUNITAS PICNIC GROUNDS TANK REPLACEMENT	1/31/2019	21,336	19,380	21,686	19,698
300417	SAN QUENTIN RIDGE TANK	1/31/2019	12,458	11,316	12,662	11,501
300421	TENNESSEE VALLEY TANK RECOATING PJCT	3/5/2021	939,624	783,020	1,034,497	862,081
300422	MARINER HIGHLAND TANK REPLACEMENT	5/31/2021	670,669	635,272	738,385	699,415
300423	2016 INDIAN FIRE TRAIL TANK COSTING PROJECT	5/20/2021	291	254	321	280
300425	MESA VISTA TANK RECTIFIER REPLACEMENT	5/31/2021	23,275	20,327	25,625	22,379
300426	MEADOW CLUB TANK HOSE LINE	5/31/2021	3,571	2,440	3,931	2,686
300428	ALTO TANK-EMERGENCY PUMP PORTS	5/31/2021	23,038	20,120	25,364	22,151
300434	FORBES TANK SOLAR	4/5/2022	110	85	113	88
300435	LUCAS VALLEY TANK SOLAR	4/5/2022	7,841	6,077	8,052	6,241
300437	COURTWRIGHT TANK IMPROVEMENT PROJECT	11/16/2023	137,871	136,339	137,871	136,339
300438	MEADOW CLUB TANK STARICASE PROJECT	11/28/2023	11,075	10,337	11,075	10,337
300439	CHULA VISTA TANK SEISMIC RETROFIT	11/29/2023	7,341	7,178	7,341	7,178
300440	SAUSALITO TANKS STAIRCASE PROJECT	1/8/2024	25,286	24,443	25,286	24,443
300441	SCENIC AVENUE TANK SOLAR ARRAY, SAN ANSELMO	2/29/2024	4,361	4,180	4,361	4,180
300442	SANTA MARGARITA TANK ALTITUDE VALVE	3/14/2024	193,227	186,786	193,227	186,786
Totals Asset Class 3100 Storage Tanks			**$73,843,778**	**$44,976,406**	**$158,073,374**	**$67,736,466**

Appendix B - Table 10, Asset Class 4000 Pumping Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
400000	Greenbrae	1/1/1968	$16,493	$0	$163,731	$0
400001	Knight Drive (Mann)	1/1/1967	16,677	0	178,043	0
400002	San Geronimo Booster Pmp	5/31/1988	33,123	0	84,043	0
400003	Idylberry	1/1/1968	18,294	0	181,610	0
400004	Soulajule	1/1/1980	22,023	0	78,009	0
400005	Lagunitas Booster-Flood Control	6/30/1983	26,803	0	75,584	0
400006	Chapman Booster C.M.	1/1/1971	14,691	0	106,545	0
400007	San Geronimo Booster Pump	11/30/1988	29,417	0	74,639	0
400007	SAN GERONIMO BOOSTERS #7, #8	6/30/2007	232,550	73,641	334,682	105,983
400008	La Cresta Asses District	6/30/1985	23,794	0	65,035	0
400009	Lagunitas Pump Control	3/31/1987	26,508	0	68,983	0
400010	Via Montebello	1/1/1968	15,868	0	157,526	0
400011	Oak Manor 1St Lift	1/1/1955	16,201	0	281,456	0
400012	Scott Pump Relocation	1/1/1971	19,371	0	140,486	0
400013	Kent Pump	1/1/1955	27,266	0	473,685	0
400014	Old Quarry Subdivision	2/28/1989	55,088	0	136,867	0
400015	Marinview Unit #3 Pmp St	1/1/1974	27,767	0	157,612	0
400016	Chapman Park	1/1/1963	29,706	0	378,034	0
400017	San Geronimo Standby	6/30/1991	75,789	0	179,727	0
400018	Lagunitas Booster Pump	5/31/1987	54,311	0	141,337	0
400019	Manor 2Nd Lift	1/1/1967	21,924	0	234,060	0
400021	Throckmorton Booster	6/30/1982	30,991	0	92,900	0
400022	Lagunitas Booster Stat Mdfctn	6/30/1986	39,877	0	106,456	0
400023	SML Pump St Rehab	6/30/1990	57,235	0	138,687	0
400024	Tiburon Booster Pump	1/31/1991	62,418	0	148,019	0
400025	Manor 1St Lift Ffx	1/1/1954	11,027	0	201,331	0
400026	Glenwood Forest	1/1/1969	11,103	0	100,321	0
400027	Lockwood Drive	1/1/1964	11,130	0	136,343	0
400028	Mesa Vista	1/1/1961	11,134	0	150,723	0
400028	MESA VISTA PS NOISE ATTENUATION PJCT	12/31/2010	11,529	5,073	15,023	6,610
400029	Ignacio Pump Station	9/30/1991	28,715	0	68,095	0
400030	Skyview Terrace	1/1/1969	11,329	0	102,363	0
400031	Oak Manor 2Nd Lift	9/1/1976	9,466	0	45,205	0
400032	Elda Drive	1/1/1964	9,658	0	118,311	0
400033	Summit Ave - Mill Valley	1/1/1963	9,993	0	127,170	0
400034	Manderly Road	1/1/1971	10,131	0	73,474	0
400036	Mariner Highlands	1/1/1965	10,772	0	127,201	0
400037	Swig	1/1/1970	11,368	0	94,385	0
400038	Sugar Loaf	1/1/1966	13,416	0	150,960	0
400039	Channing Wy	1/1/1966	13,461	0	151,466	0
400041	Forbes	1/1/1957	13,467	0	213,277	0
400042	Grove Hill	1/1/1962	13,493	0	177,421	0
400043	Aline-B.T. Auxillary Pump	6/30/1990	31,715	0	76,849	0
400044	Hill Haven Pump And Scada	6/30/1996	56,957	0	116,160	0
400045	Hind	1/1/1967	12,120	0	129,393	0
400047	Mc Near Drive	1/1/1966	12,838	0	144,456	0
400048	Corte Madera 1St Lift	1/1/1969	12,859	0	116,187	0
400049	Sausalito Pump House	5/31/1988	25,426	0	64,513	0
400050	Lucas Valley Pump Station	10/1/1976	115,239	0	550,325	0
400051	Ignacio Pump Station	6/30/1998	1,039,076	0	2,012,366	0
400052	REDWOOD DRIVE UPPER	6/30/1996	627,433	0	1,279,604	0
400053	Marin Wood Booster Plnt	8/1/1976	126,327	0	603,276	0
400055	Rpl Alpine-B.T. Pump	1/1/1978	173,684	0	717,385	0
400056	"Quail Hill, Terra Linda Pumping Equipment"	6/30/1994	264,217	0	560,234	0
400057	Smith Saddle Booster	1/1/1972	86,279	0	564,333	0
400058	Ignacio Pump Control System Modifications	3/1/1995	340,284	0	713,138	0
400059	S.M.L. Booster Station	6/30/1990	213,328	0	516,919	0
400060	Marina Pump Station	1/1/1978	100,115	0	413,515	0
400061	Forrest Knolls Pump Station	6/30/1996	501,491	0	1,022,754	0
400062	Pine Mtn Pump Station	1/1/1978	174,014	0	718,748	0

Appendix B - Table 10, Asset Class 4000 Pumping Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
400063	Lagunitas Booster	1/1/1973	282,383	0	1,708,603	0
400063	LAGUNITAS BOOSTER PUMP STATION IMPELLER REPLS	1/31/2009	126,942	0	169,837	0
400063	LAGUNITAS PUMP STATION SOUND SUPRESSION PJCT	5/31/2007	6,894	1,930	9,921	2,778
400063	LAGUNITAS BOOSTER PUMP REIMPELLER PJCT	1/31/2009	40,263	8,053	53,868	10,774
400063	LAGUNITAS BOOSTER PUMP STATION ROOF REPAIRS	4/30/2009	86,704	0	116,002	0
400063	LAGUNITAS BOOSTER PUMPS SOUND ATTENUATION	1/6/2011	40,548	17,841	51,261	22,555
400063	LAGUNITAS PUMP STATION ACOUSTICAL LOUVER	12/31/2010	21,559	9,486	28,094	12,361
400064	Phoenix-B.T. Pump Station	6/30/1979	323,008	0	1,233,303	0
400065	Marinship Tank Replacement	6/30/1994	1,782,688	0	3,779,933	0
400067	Ignacio Pump Station #1	1/1/1977	729,781	0	3,248,319	0
400067	AMMONIA ANALYZER IPS TANK SITE	4/30/2009	14,541	0	19,455	0
400067	IGNACIO CHEMICAL INJECTION LINES REPLS	1/31/2010	45,097	0	58,766	0
400068	Soulajule Jbs Clsd 6/81	6/30/1981	1,296,546	0	4,205,430	0
400069	Las Gallinas Pump Station	1/31/1992	454,062	0	1,044,423	0
400070	Reclaimed Water Pumpt Station	6/30/1994	637,231	0	1,351,156	0
400071	Lagunitas	1/1/1960	211,178	0	2,938,552	0
400072	S.Q. Pump Station	1/1/1978	241,709	0	998,356	0
400073	Tocaloma (6)	1/1/1969	241,198	0	2,179,335	0
400074	Kent - Pump Modification	3/31/1983	353,347	0	996,428	0
400075	Fairhills 1St Lift	1/1/1965	33,853	0	399,751	0
400076	San Geronimo Pump Station	1/1/1971	34,827	0	252,578	0
400077	Tiburon Booster	1/1/1964	35,328	0	432,768	0
400078	Scott Highlands	1/1/1964	36,338	0	445,141	0
400079	Kent Woodlands 2Nd Lift	1/1/1962	37,314	0	490,645	0
400081	Tiburon-Belvedere	1/1/1967	30,455	0	325,137	0
400082	Lagunitas Mcc Desing	6/30/1994	130,788	12	277,317	26
400084	Chapman Bstr Station Mdf	11/30/1985	51,590	0	141,009	0
400085	Phoenix Gate House #2	1/1/1966	32,735	0	368,341	0
400086	San Geronimo Booster #6	1/1/1971	33,158	0	240,474	0
400087	Eastwood Way Pump Station Activation	6/30/1997	285,599	0	562,168	0
400088	San Geroniomo Booster Station	6/30/1995	253,914	0	532,131	0
400090	Tiburon-Belvedere Pump	1/1/1974	66,028	0	374,791	0
400091	Upsizing Pumps	12/31/1990	159,218	0	385,804	0
400092	Tocaloma Pump Station	6/30/1991	168,942	0	400,632	0
400093	"Ring Mountain, Tiburon"	8/31/1990	185,885	0	450,422	0
400094	Phoenix Lake Pump	1/1/1978	50,842	0	209,998	0
400095	Conifer Wy Pump Station	5/31/1986	85,454	0	228,129	0
400097	Relocate Kent Pump	6/30/1990	128,598	0	311,608	0
400098	Via Montebello Pump Station & Improvements	6/30/1994	245,919	23	521,436	48
400099	Chula Vista Pump	1/1/1974	60,670	0	344,377	0
400100	Ignacio	1/1/1980	10,860	0	38,468	0
400100	IGNACIO TREATMENT PLANT RE-ROOFING	1/11/2007	91,767	0	132,070	0
400101	Knight Dr Pump Hse Fence	2/1/1976	2,688	0	12,837	0
400102	1997-98 Stnby Pump	1/1/2001	145,242	8,754	262,587	15,827
400103	Monte Mar Vista Pump	1/1/1979	3,293	0	12,573	0
400104	Rewound Pump - Oak Grove	1/1/1973	3,000	0	18,152	0
400105	Eldridge - Cushing	1/1/1924	3,054	0	162,871	0
400106	Other	6/30/1983	4,305	0	12,140	0
400107	Phase Prtctn Pump Station	6/30/1984	3,608	0	9,978	0
400108	Phase Prtctn - Pumps	6/30/1985	3,902	0	10,665	0
400109	Distribution Pump Replc	12/31/1991	3,944	0	9,353	0
400111	Tiburon Bosster Pump Rplc	9/1/1998	23,228	0	44,986	0
400112	Crescent Ave Pump	1/1/1979	3,004	0	11,470	0
400113	San Quentin Pump St	1/1/2000	159,928	3,225	294,757	5,944
400114	Mann Standby Pump Rplc	6/30/1992	10,146	0	23,338	0
400115	Dominican Heights	1/1/1962	3,741	0	49,191	0
400116	Del Mesa	1/1/1967	3,745	0	39,982	0
400117	Bates	1/1/1958	3,750	0	56,650	0
400118	Tam Woods 1St Lift Rplc	4/30/1992	6,212	0	14,289	0
400118	TAM WOODS 1ST LIFT PUMP RETAINING WALL PJCT	6/30/2005	56,387	0	86,829	0

Appendix B - Table 10, Asset Class 4000 Pumping Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
400119	Meadow Club #1	1/1/1960	3,827	0	53,253	0
400120	Hill Haven	1/1/1953	3,209	0	61,324	0
400122	Fairview Park - M.V.	1/31/1985	4,961	0	13,560	0
400123	Cm 2Nd Lift Pump Replcmnt	7/1/1992	22,700	10,593	52,214	24,367
400124	Federal Wrks Booster Pump	5/31/1988	6,767	0	17,170	0
400125	Upgrade Standby Pumps	6/30/1991	8,889	0	21,080	0
400126	Reclaimed Pump Station - Addtl Costs	3/1/1995	2,050	0	4,296	0
400127	Construction Reclaimed Pump Stations	6/30/1995	2,556	0	5,357	0
400129	Hillhaven Pump And Scada	7/1/1996	3,666	0	7,477	0
400130	Ignacio Control System	6/30/1996	4,255	0	8,678	0
400131	Kent Lake Aerator V	7/1/1999	21,978	0	41,588	0
400132	Upper Rd Pump Rplcm	6/30/2001	77,864	6,229	140,772	11,262
400133	Pump & Motor Cntrl	1/1/2001	16,068	1,241	29,050	2,244
400134	Pump Stn Emerg Resp	7/1/2000	6,397	257	11,790	473
400135	REDWOOD DRIVE UPPER	3/31/1998	2,859	0	5,537	0
400136	Upsize Regulators	7/1/1998	3,129	0	6,060	0
400137	Cortez Avenue Pump Station	11/1/1996	2,762	0	5,633	0
400138	Grove Hill Pump Replacement	2/1/1996	5,574	0	11,368	0
400139	Lapachet Pump Replacement	12/31/1992	14,025	6,662	32,260	15,323
400140	San Quentin Pump Station Modification	6/30/1997	13,307	0	26,193	0
400141	Swig Pump Replacement	7/1/1992	14,219	6,635	32,706	15,263
400142	Upper Road - Ross	2/29/1988	4,325	0	10,974	0
400143	Recondition Booster	1/1/2001	118,881	7,165	214,928	12,955
400145	Kent Pump Project Report	6/30/1997	9,125	0	17,962	0
400146	Eastwood Way Pump Station Act.	3/31/1998	11,271	0	21,828	0
400147	Remote Valve Repl Shafter	7/1/1998	14,439	0	27,964	0
400148	Lagunitas Booster Rewiring	6/30/1982	2,325	0	6,970	0
400150	Reclaimed Pump Station - Addtl Costs	7/1/1994	7,091	0	15,035	0
400151	Marin City	1/1/1964	6,804	0	83,349	0
400152	Lockwood Dr S/B Pump	10/1/1975	6,908	0	35,808	0
400153	Summit Road - San Anselmo	3/31/1982	8,868	0	26,583	0
400154	Pump Station Emergenc	1/1/2000	351,627	7,090	648,071	13,067
400155	Sausalito Blvd	1/1/1962	6,985	0	91,846	0
400156	S.G. Booster Station Motor Control	6/30/1996	35,381	0	72,157	0
400157	Lapachet	1/1/1960	6,162	0	85,745	0
400158	Crescent Ave	1/1/1962	6,232	0	81,945	0
400159	Glen Drive	1/1/1967	6,443	0	68,785	0
400161	Kentwoodlands 2Nd Lift Pm	1/1/1974	6,737	0	38,241	0
400162	Kent Fire Trail	1/1/1957	6,743	0	106,789	0
400163	San Quentin Pump Rplc	3/31/1992	11,479	0	26,404	0
400164	Cascades	1/1/1967	8,010	0	85,515	0
400168	Lattie Lane	1/1/1970	9,004	0	74,757	0
400170	Tocaloma Pump	12/31/1982	9,693	0	29,056	0
400171	Kent Fire Trail Pump	1/1/1974	7,198	0	40,858	0
400172	Scott Pump Spply Line	1/1/1970	7,439	0	61,764	0
400174	Throckmorton	1/1/1960	7,816	0	108,760	0
400175	Pump Station Misc Replacements	8/1/1994	28,353	0	60,118	0
400176	Phase Prtctn Pump Station	6/30/1984	6,405	0	17,713	0
400177	Dominican Hts S/B Pump	10/31/1984	6,943	0	19,201	0
400177	DOMINICAN HEIGHTS PUMP STATION PAVING	12/31/2009	4,185	0	5,599	0
400178	Fawn Dr Pump	1/1/1974	4,656	0	26,429	0
400178	FAWN DRIVE PS NOISE ATTENUATION PJCT	12/31/2010	25,952	11,419	33,818	14,880
400179	Throckmorton Booster -M.V	2/1/1976	4,825	0	23,042	0
400180	Cascade Pump	1/1/1974	4,934	0	28,007	0
400181	Mine Ridge	1/1/1962	4,998	0	65,719	0
400182	Corte Madera 3Rd Lift	1/1/1967	3,856	0	41,167	0
400183	San Quentin	1/1/1980	4,568	0	16,181	0
400184	Highland Vista	1/1/1965	3,926	0	46,360	0
400185	"Fairhills Pump, San Rafael"	6/30/1996	19,781	0	40,342	0
400186	Fairhills	1/1/1947	4,008	0	111,273	0

Appendix B - Table 10, Asset Class 4000 Pumping Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
400187	Marin Stand-By Pump S.A.	1/1/1974	4,188	0	23,772	0
400188	Lucas Valley Rd Pump Station	7/1/1997	31,893	0	62,778	0
400188	LUCAS VALLEY PUMP IMPELLER REPLACEMENT	12/31/2009	25,529	0	34,155	0
400189	Oak Manor 2Nd Lift Install New Pump	2/1/1996	25,992	0	53,009	0
400190	Ignacio Pump Stn - Cap Int.	6/30/1998	47,373	0	91,747	0
400191	Beacon Hill	1/1/1968	5,865	0	58,223	0
400192	San Geronimo Valley	1/1/2001	301,434	18,169	544,970	32,848
400193	Fawn Drive	1/1/1967	4,094	0	43,707	0
400194	Kent Pump Meter	5/31/1986	6,141	0	16,394	0
400195	Tam Woods 1St Lift	1/1/1967	5,196	0	55,472	0
400196	REDWOOD DRIVE LOWER	1/1/1967	5,199	0	55,504	0
400196	REDWOOD DRIVE LOWER P S SOUNDPROOFING	12/31/2010	28,016	12,514	36,508	16,307
400197	Tam Woods 2Nd Lift	1/1/1967	5,226	0	55,793	0
400198	Monte Mar Vista S/B Pump	6/30/1984	8,142	0	22,517	0
400199	Monte Mar Vista #1	1/1/1961	5,412	0	73,263	0
400200	Oak Manor Unit 2Nd	1/1/1955	5,411	0	94,004	0
400203	LAGUNITAS BOOSTER#1 PUMP/MOTOR	12/1/2001	9,258	0	16,737	0
400204	KENT PUMP SLIDE REPAIR PJCT	4/1/2003	143,856	0	246,387	0
400205	1997/98 STANDBY PUMP INSTALLATION	11/6/2002	1,846	0	3,237	0
400206	LAGUNITAS PUMP STATION SEISMIC RETRO PJCT	6/30/2003	275,427	0	471,732	0
400209	KENT PUMP REPAIR	7/1/2004	83,287	0	134,218	0
400210	RICHARDSON DRIVE PRESSURE SYSTEM PUMP STATION	1/31/2005	329,421	8,236	507,266	12,682
400211	SLIDE GULCH PUMP #1 REPLACEMENT	7/31/2004	11,313	0	18,232	0
400212	IGNACIO PUMP STATION LIGHTING UPGRADE	8/31/2004	13,629	57	21,963	92
400213	SUMMIT DRIVE & H-LINE PUMP STATION REHAB	12/31/2005	1,070,179	71,354	1,647,937	109,877
400214	MADERA PARK PRESSURE SYSTEM PUMP#1 REPLS	3/31/2006	89,463	7,092	132,337	10,491
400215	THROCKMORTON BOOSTER STATION REPLS PJCT	3/31/2006	620,291	52,227	917,563	77,257
400216	ALPINE BON TEMPE PUMP & MOTOR REPLS	5/31/2006	44,556	2,228	65,909	3,295
400217	OAK WOODLANDS PUMP REPLACEMENT	5/31/2007	691,065	69,461	994,571	99,967
400218	HAWTHORNE HILLS PUMP	3/31/2008	4,817	0	6,646	0
400219	MARIN TERRACE PUMP STATION REPLS	5/31/2008	928,235	177,905	1,280,777	245,474
400220	IGNACIO PUMP STATION EMERGENCY GENERATOR	9/30/2008	1,033,891	215,441	1,426,559	297,264
400221	LAGUNITAS PUMP STATION CONTROL BUILDING REPLS	12/31/2008	525,430	117,033	724,987	161,482
400221	LAGUNITAS BOOSTER CONTROL BUILDING ROOF REPAIRS	4/30/2009	22,712	0	30,387	0
400221	LAGUNITAS PUMP STN CNTRL BLDG ELECTRICAL PJCT	10/31/2009	844,629	214,767	1,130,038	287,339
400222	PAVING AT SKYVIEW TERRACE PUMP SITE	1/31/2009	1,200	0	1,605	0
400223	IGNACIO CHEMICAL TANKS & DIFFUSER PIT	3/31/2009	31,692	6,345	42,400	8,489
400224	SAN GERONIMO VALLEY PUMP STATION	3/31/2009	1,345	269	1,799	360
400225	H- LINE BOOSTER STATION REHAB	5/31/2009	111,793	27,017	149,568	36,146
400226	ALPINE BON TEMPE PUMP & MOTOR REBUILDING	12/31/2009	47,989	11,997	64,205	16,051
400227	NORTH REDWOOD DRIVE PUMP STATION RETROFIT	12/31/2009	12,975	3,244	17,359	4,340
400228	IGNACIO #1 BOOSTER PUMP REPLACEMENT	12/21/2010	32,219	9,666	41,985	12,596
400229	SAN GERONIMO BOOSTER #4 REBUILD	12/21/2010	28,193	8,458	36,738	11,021
400230	IGNACIO TRANSMISSION PUMP MOTOR REBUILDS#1,#2	12/21/2010	26,755	8,027	34,865	10,460
400231	TOCALOMA TRANSMISSION MOTOR & PUMP REBUILDS	12/21/2010	110,906	33,350	144,523	43,459
400232	ALPINE BON TEMPE PRIM PUMPS	12/31/2010	134	0	175	0
400233	ALPINE BONTEMPE PUMP SOLAR ARRAY	12/31/2010	9,947	2,984	12,962	3,888
400234	LAGUNITAS PUMP STATION SITE- SECURITY, PARKING,	2/28/2011	212,015	69,810	268,027	88,253
400235	IGNACIO PLANT PLC UPGRADE	3/31/2011	94,194	28,258	119,080	35,724
400236	PHOENIX LAKE WATER SUPPLY PROJECT- PUMP	6/30/2011	82,388	53,559	104,155	67,708
400236	PHOENIX LAKE WATER SUPPLY PJCT- BARGE PUMP	6/30/2011	283,909	85,289	358,915	107,821
400236	PHOENIX LAKE WATER SUPPLY PJCT- BOOSTER PUMP	6/30/2011	64,165	19,249	81,116	24,335
400237	ALPINE- BON TEMPE BARGE PUMP STATION	10/31/2011	3,009,084	1,058,095	3,804,056	1,337,634
400238	LAGUNITAS BOOSTER PUMP STATION-ENERGY SAVING PROJ	3/31/2013	118,098	51,838	141,841	62,260
400239	TOCALOMA BOOSTER STATION IMPELLER REPL	7/1/2012	377,674	196,390	465,227	241,918
400240	SOULAJULE HOWELL-BUNGER VALVE ACRATION PROJECT	2/1/2014	589,411	349,609	689,189	408,792
400241	LAGUNITAS BOOSTER PUMP 4 & 5 REPLACEMENT	3/1/2014	139,548	43,415	163,172	50,765
400242	MARIN TERR PUMP STATION-RETAINING WALL REPL	3/1/2014	12,374	3,850	14,469	4,502
400243	CONTROL VALVE REPLACEMENT PROGRAM	4/1/2014	32,796	15,988	38,348	18,694
400244	VIA MONTEBELLO PS SCADA RADIO INSTALLATION	4/1/2014	6,032	0	7,053	0

Appendix B - Table 10, Asset Class 4000 Pumping Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
400245	MARINER HIGHLANDS PUMP REPLACEMENT	3/20/2014	22,837	11,038	26,703	12,906
400246	SOLAJULE PUMP STATION DIESEL ENGINE REPLACEMENT	6/30/2014	1,562,703	768,338	1,827,244	898,406
400247	SAN GERONIMO CONTROL VALVE REPBUILD	8/1/2014	32,976	16,488	38,559	19,279
400248	LUCAS VALLEY PUMP VARIABLE FREQ DRIVE REPLACE	8/1/2014	55,653	33,392	65,074	39,044
400249	TIBURON BOOSTER #2 REPLACEMENT	8/1/2014	43,265	25,959	50,589	30,353
400250	LAGUNITAS BOOSTER BLOWOFF IMPROVEMENTS	7/1/2014	10,103	6,062	11,813	7,088
400251	SAN GERONIMO TRANSMISSION PUMP REBUILDS	7/1/2014	64,028	38,417	74,867	44,920
400252	FIRE ROAD PUMP REPLACEMENT	7/1/2014	30,238	18,143	35,357	21,214
400253	SAUSALITO BL PUMP REPLACEMENT	7/1/2014	11,395	6,837	13,324	7,995
400254	H LINE BOOSTER PUMP RETAINING WALL	7/1/2014	31,118	18,671	36,386	21,832
400255	THROCKMORTON BOOSTER SOUND ATTENUATION	7/1/2014	12,103	7,262	14,152	8,491
400256	FAIRHILL 2ND LIFT PUMP 1 MOTOR STARTER	7/1/2014	2,642	1,585	3,089	1,854
400257	IGNACIO PUMP 1 & 2 VFD REPLACEMENT	7/1/2014	6,486	3,243	7,584	3,792
400258	LARGE DISTRICT REGULATOR VAULT REPLACEMENT	7/1/2014	37,577	18,789	43,938	21,969
400259	LAGUNITAS BOOSTER PUMP 3 REBUILD/REPLACE	7/1/2014	18,353	11,012	21,460	12,876
400260	BON TEMPE PUMP-SAMPLE PUMP REPLACE	7/1/2014	6,830	3,415	7,986	3,993
400261	PHOENIX PUMP ROOFING & SIDING PROJECT	7/1/2014	58,078	19,359	67,909	22,637
400262	LAGUNITAS SMALL PUMP CONTROL VALVE RETROFIT	7/1/2014	2,943	0	3,441	0
400263	CASCADE PUMP 2 REPLACEMENT	7/1/2014	36,546	21,927	42,732	25,639
400264	MADERA PARK PUMP CHECK VALVE INSTALL	7/1/2014	9,793	3,264	11,450	3,817
400265	LAGUNITAS LAKE CONTROL VALVE REPL	7/1/2014	5,940	3,564	6,945	4,167
400266	CASCADE PUMP STATION PCR INSTALLATION	4/1/2015	3,537	2,228	3,924	2,472
400267	SHAFTER VALVE ACTUATOR REPLACEMENT	4/1/2015	5,326	3,355	5,909	3,723
400268	ELINOR AV PUMP STATION CONTROL VALVE REPL	5/1/2015	9,543	6,045	10,587	6,707
400269	SAN QUENTIN PUMP REPAIR PROJECT	7/1/2015	17,811	11,399	19,760	12,646
400270	2015 PUMP CONTROL VALVE INSTL-TAM WOODS 1&2 LIFT	7/31/2015	45,889	29,369	50,911	32,583
400274	IGNACIO PUMP STATION VFD REPLACEMENT	6/30/2016	401,203	271,481	442,965	299,740
400275	LAGUNITAS BOOSTER PUMP 1 REBUILD	9/1/2015	15,511	10,031	17,209	11,128
400276	FEDERAL WORKS LINE BOOSTER BYPASS PRP	6/30/2017	195,107	139,829	208,354	149,323
400277	NML BOOSTER PUMP #5 REPLACEMENT SGTP	6/30/2017	171,191	122,687	182,814	131,017
400278	SCENIC AVE PUMP REPLACEMENT 2016	1/23/2018	70,708	56,707	73,291	58,778
400279	SOULAJULE PUMP HOUSE ROOF REPAIR	1/31/2019	29,676	23,147	30,163	23,527
400280	DISTRIBUTION PUMP MOTOR REPLACEMENT 2016	1/31/2019	19,399	14,065	19,717	14,295
400281	NML BOOSTER PUMP #3 REPLACEMENT SGTP	4/30/2019	277,632	219,329	282,184	222,926
400282	SMITH SADDLE PUMP STATION PS-130 PROJECT	6/7/2019	1,135,077	904,295	1,153,691	919,125
400283	TIBURON BOOSTERS CV ACTUATOR REPLACEMENT	10/31/2019	26,374	21,363	26,807	21,714
400284	IGNACIO PLANT CHEMICAL ROOM IMPROVEMENT	11/30/2019	242,216	185,699	246,188	188,744
400285	SAN QUENTIN PUMP CHECK VALVE	3/10/2021	4,479	3,881	4,931	4,273
400286	MONTECITO DR BOOSTER PUMP STATION REPL	5/31/2021	3,583	3,129	3,944	3,445
400287	SOULAJULE PUMP STATION ELECTRIFICATION	3/31/2021	238,442	225,166	262,517	247,900
400288	PHOENIX LAKE WATER SUPPLY PJCT 2015	5/20/2021	29,823	25,101	32,834	27,635
400289	ALPINE BARGE PUMP #1 REPAIR	5/26/2021	25,547	21,502	28,126	23,673
400290	FAIRVIEW PARK DISTRIPBUTION PUMP REPLACE	5/27/2021	3,113	2,719	3,427	2,993
400291	UPPER ROAD PUMP STATION PCR INSTALLATION	5/31/2021	2,636	2,302	2,903	2,535
400292	DEL MESA PUMP REPLACEMENT PROJECT	5/31/2021	1,868	1,631	2,056	1,796
400293	OAK MANOR 1ST PUMP REPLACEMENT	5/31/2021	28,809	25,263	31,718	27,814
400294	FY21 MINOR PUMP REPAIRS	11/30/2021	90,200	86,191	99,308	94,894
400295	LUCAS VALLEY PUMP REBUILDS	1/26/2022	33,836	30,452	34,749	31,275
400296	KASTANIA PUMP STATION	6/30/2022	2,141,543	1,964,041	2,199,369	2,017,073
400297	SOULAJULE PUMP STATION FUEL SYSTEM IMPRO	1/31/2024	6,009	5,889	6,009	5,889
400298	BEACON HILL PUMP REPLACEMENT	3/5/2024	75,706	60,716	75,706	60,716
400299	FY2022 MINOR PUMP REPAIRS	2/29/2024	9,030	8,880	9,030	8,880
400300	NORTH REDWOOD PUMP STATION BYPASS VALVE	2/29/2024	9,073	8,884	9,073	8,884
400301	PUMP STATION-STANDBY GENERATOR #1	3/11/2024	53,866	52,968	53,866	52,968
Totals Asset Class 4000 Pumping Plants			**$35,973,775**	**$8,825,031**	**$78,891,061**	**$10,175,695**

Appendix B - Table 11, Asset Class 5000 Water Treatment Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
500000	Silactor Alpine	1/1/1957	$3,731	$0	$59,088	$0
500001	Photometer/Accessories 2	11/30/1985	3,795	0	10,373	0
500002	Chemical Fume Hood Vwr	5/31/1987	4,026	0	10,477	0
500003	Chlorinator-Kent	1/1/1966	4,109	0	46,235	0
500004	Chlorinator Meadow Club	1/1/1951	4,127	0	87,146	0
500005	Anthracite Coal	6/30/1993	5,206	0	11,456	0
500006	Force Flow Drum Scale	7/1/1992	3,539	0	8,140	0
500007	Particle Counters - Filter Perfomance Monitor At S	6/1/1997	24,334	2,366	47,899	4,657
500009	Chlorinator\Forbes Reser.	1/1/1950	3,370	0	75,766	0
500011	Duriron Frp Pump	7/1/1992	3,899	0	8,968	0
500012	Hach Ratio/Turbidimeter	7/1/1992	5,132	0	11,805	0
500013	Carbon Feed System	6/30/1990	6,402	0	15,513	0
500014	Enteria Tot Chlor Analy	2/29/1992	7,912	0	18,199	0
500015	Stranco Liqd Polymer Sys	12/31/1992	6,172	0	14,197	0
500017	Spectronic Spectrometer	9/30/1991	8,494	0	20,143	0
500018	Polyblend Polym Feed Syst	5/31/1986	4,223	0	11,274	0
500019	Particle Counters - Filter Performance Monitor At	6/1/1997	31,291	3,042	61,593	5,988
500020	Cannon Copier Np1500	12/31/1992	4,263	0	9,806	0
500021	Chlorinator Conversion	4/30/1991	5,048	0	11,971	0
500022	Chlorine Analyser/Record	11/30/1985	4,320	0	11,808	0
500023	Borges Chlorine Analyzer	3/31/1987	4,600	0	11,971	0
500024	Envitrotube Pump/Access	12/31/1992	3,632	0	8,354	0
500025	Conductivity Cell W/Ds3, Land Pump & Detector Int	8/1/1994	2,879	0	6,105	0
500026	Maintenance Software Pack	4/30/1987	2,175	0	5,660	0
500027	Borges Solu/Metering Pump	11/30/1988	2,061	0	5,229	0
500028	Hach Chlorine Analyzer	11/30/1990	2,081	0	5,043	0
500029	Ist Chlorine Monitor Fuel	3/31/1987	2,120	0	5,517	0
500030	Speedomax 3 Pen Recorder	11/30/1985	2,148	0	5,871	0
500031	Modicon As-B872-100 Analog Module For Ptcl Cntr	4/30/1998	10,608	1,355	20,544	2,625
500032	Alamedaelectric	9/1/1998	9,212	974	17,840	1,887
500033	Allen Bradley Ctrline Mtr Control	3/31/1998	11,646	1,456	22,555	2,821
500034	Hach Residual Chlor Anyal	12/31/1991	2,360	0	5,597	0
500035	VWR Fume Hood	1/31/1992	2,518	0	5,792	0
500036	Hach Chlorine Anlyzer	7/30/1993	2,467	0	5,429	0
500039	Rpair Pump(Reverse	3/31/1987	3,855	0	10,032	0
500041	Prechlorinator-Bon Tempe	1/1/1972	2,883	0	18,857	0
500042	Pilot Filter System	11/30/1988	3,468	0	8,799	0
500043	B & M Solution Metering Pump	6/1/1994	3,123	0	6,622	0
500044	Chlorinator - Alpine	1/1/1966	2,215	0	24,924	0
500045	Dukane Microfilm Reader	6/30/1990	2,307	0	5,590	0
500046	Hach 6/Se Turbidimeter	6/30/1996	5,168	0	10,540	0
500047	Polymer Tank 4200 Gal	2/29/1988	2,897	0	7,351	0
500049	"76 Gary Place, San Rafael - Fireline"	5/31/1998	6,160	804	11,930	1,558
500051	"19 Broadway, Fairfax - Fireline"	5/31/1998	7,158	934	13,863	1,809
500052	"1175 Idylberry Rd, S.R. - Fireline"	5/31/1998	7,630	996	14,777	1,930
500053	"208 Greenfield Ave., S.A. - Fireline"	5/31/1998	8,317	1,086	16,107	2,103
500054	SGTP Sludge Pond Pmp	7/1/1998	10,500	1,401	20,335	2,713
500055	2130 Redwood Hwy, Greenbrae - Fireline"	5/31/1998	3,452	450	6,685	872
500056	"Fireline - 2 Walden Lane, Mill Valley"	6/30/1998	3,560	475	6,895	919
500057	"2140 Redwood Highway, Greenbrae - Fireline"	12/1/1996	2,690	217	5,486	442
500058	"384 Carrera Drive, M.V. - Fireline"	5/31/1998	4,019	525	7,784	1,016
500059	"1501 Tiburon Blvd, Tiburon - Fireline"	5/31/1998	4,501	587	8,717	1,137
500060	"740 Francisco Blvd W, S.R. - Fireline"	5/31/1998	5,004	653	9,691	1,264
500061	SGTP Sludge Pond Pump	6/30/1998	65,650	8,753	127,144	16,953
500064	LGVRP FILTER CLEANING	6/30/2005	40,803	21,507	62,832	33,118
500066	LAS GALLINAS TREATMENT PLANT RE-ROOFING	1/11/2007	56,962	0	81,979	0
500067	"1110 Third St, S.R. -Fireline"	5/31/1998	12,005	1,567	23,250	3,035
500068	Reverse Osmosis Unit - Lg	6/30/1984	2,902	0	8,026	0
500069	Corte Madera Recycling	4/1/1996	7,604	444	15,508	906
500070	"1115 Third Street, S.R. - Fireline"	5/31/1998	13,384	1,748	25,921	3,385

Appendix B - Table 11, Asset Class 5000 Water Treatment Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
500071	"5 Richmond Road, San Anselmo - Fireline"	12/1/1996	10,891	877	22,211	1,789
500072	"622-624 Lindaro St, S.R. - Fireline"	5/31/1998	18,879	2,465	36,563	4,774
500073	Drake Blvd. San Geron Valley - Fireline	5/31/1998	3,414	446	6,612	863
500074	Hach Chlorine Analyzer	7/1/1992	9,438	0	21,709	0
500076	30 Tons Anthracite Coal	6/30/1985	10,013	0	27,368	0
500077	RMPP & Alter Disinfectant	6/30/1996	68,923	4,595	140,563	9,371
500078	Borges/Mahoney Micro 2000 Residual Chlorine Analyz	6/1/1995	18,887	0	39,582	0
500079	Destrat Unit - Nicasio	1/1/1972	14,430	0	94,384	0
500080	Hydrolab Surveyor 3	12/31/1990	8,607	0	20,856	0
500081	Philadelphia Mixer	12/31/1990	7,119	0	17,250	0
500083	Chemtree Current Monitor	6/30/1990	7,250	0	17,568	0
500084	Hach Chlorine Analyzer	9/30/1991	11,529	0	27,340	0
500085	Norlab Lab Furniture	8/1/1993	10,603	0	23,333	0
500086	Clarifier #1 S.G.T.P.	12/31/1990	99,316	0	240,655	0
500088	P/E Specrtophotometer	11/30/1991	92,424	0	219,176	0
500089	RMPP & Alternate Disinfectant-Sgtp, Bttp, Ignacio	9/30/1995	208,881	0	437,755	0
500090	"1612 Fifth Street, S.R. - Fireline"	5/31/1998	2,844	371	5,508	718
500091	"615 Lindaro Ave., S.R. - Fireline"	5/31/1998	3,022	394	5,853	763
500092	Bon Tempe Clarifier Modif	7/1/1997	118,365	11,836	232,988	23,297
500093	50 Bacteria Sampling Stations	7/1/1997	131,972	13,197	259,772	25,978
500094	Tempe T/Plant Flour/Analy	4/30/1981	18,083	0	58,653	0
500095	SGTP Backwash Rehab	5/31/1989	26,325	0	65,405	0
500096	Atomic Emission Atomizer	7/31/1979	22,371	0	85,417	0
500097	Anthracite Coal 100 Tons	6/30/1984	27,466	0	75,959	0
500098	Alpine Wtr Systm Upgrd - Micron Filter	7/1/1997	8,397	839	16,529	1,652
500099	SGTP Control Rm Ret	1/1/2000	313,546	0	577,885	0
500100	BTTP Dilution Line	6/30/1991	13,178	0	31,251	0
500101	Clarifier / Clearwell Rehabilitation	7/1/1996	33,303	0	67,919	0
500102	SGTP Hot Standby Pc	6/30/1993	21,116	0	46,468	0
500103	B.T. & S.G. Pneumatic Sys	8/31/1985	11,389	0	31,129	0
500104	Clarifier / Clwl Rehabilitation	6/30/1996	68,468	4,565	139,636	9,310
500105	BT Modernization	6/30/1984	5,750	0	15,902	0
500106	N. Marin Line Chlrntr	1/1/1959	6,321	0	90,937	0
500107	SGTP Sludge Drying	9/1/2000	114,908	0	211,782	0
500108	S.G. Waste Wtr Rcvry Pmp	10/31/1981	7,330	0	23,775	0
500109	SGTP Filter Basin &	1/1/2000	259,286	0	477,880	0
500110	Bon Tempe Clearwell No1	12/1/1996	32,647	0	66,581	0
500111	SGTP Clearwell No. 2 - Capitalized Interest	4/1/1997	135,442	12,415	266,602	24,438
500112	SGTP Filter Basin & Ctngs	1/1/1999	595,577	393,135	1,126,972	743,905
500113	SGTP Elec & Sys Mdfctns	6/30/1983	24,560	0	69,258	0
500114	SGTP Caustic Feed System	9/30/1981	24,849	0	80,599	0
500115	S.G./B.T.F.P. Drainage	8/1/1975	40,263	0	208,705	0
500116	BTTP Operator Interface	3/31/1987	27,054	0	70,404	0
500117	Bon Tempe Trmt Plnt	1/1/2001	370,232	0	669,350	0
500117	BON TEMPE WINDOW FILM PROJECT	6/30/2005	3,508	0	5,401	0
500117	BTTP BUILDING COATING PROJECT	3/31/2008	3,002	0	4,143	0
500117	BON TEMPE TREATMENT PLANT EXTERIOR RECOATING	12/31/2008	244,580	0	337,471	0
500117	BON TEMPE TRMT PLANT WINDOW GLASS REPLS	10/31/2009	101,496	63,435	135,793	84,870
500117	BON TEMPE TREATMENT PLANT PLC UPGRADE	3/31/2011	219,223	14,695	277,140	18,577
500117	BTTP GUARDRAIL PROJECT	10/31/2011	68,908	9,188	87,113	11,615
500118	Bon Tempe Reroofing	1/1/1984	13,363	0	36,956	0
500119	Skuice Gates B.T.	6/30/1984	14,767	0	40,839	0
500120	B.T. Leach Field	5/31/1986	20,716	0	55,304	0
500121	Sky Ranch Phase I	6/30/1994	154,899	90,875	328,441	192,687
500122	BT Filter Media Removal	3/31/1982	17,405	0	52,174	0
500123	Program Cntrllr Bttp	11/30/1986	5,563	0	14,851	0
500124	SGTP Clearwell No. 2	3/31/1998	6,643	831	12,865	1,610
500125	Pilot Test At Lgvrp	1/1/2001	51,607	0	93,302	0
500126	B.T. & S.G. Sfty Rqrmnts.	6/1/1976	2,727	0	13,023	0
500127	SGTP Clearwell No. 1	3/31/1998	17,765	2,221	34,405	4,302

Appendix B - Table 11, Asset Class 5000 Water Treatment Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
500128	Chloramine Conversions	4/30/1994	4,113	0	8,721	0
500129	San Geron Booster P	1/1/2001	64,591	0	116,775	0
500131	SGTP Wash Wtr Rcvry Pump	6/30/1990	114,132	27,831	276,555	67,439
500132	SGTP Emerg Gnrtr	6/30/1990	18,511	4,514	44,854	10,938
500133	BTTP Emerg Generato	1/1/2000	2,382	0	4,390	0
500134	B.T.T.P. Access Hatch	6/30/1999	3,043	508	5,758	961
500135	Bon Tempe Clearwell No. 1	3/31/1998	4,530	566	8,773	1,096
500136	Floridation Facilities	1/1/1979	7,190	0	27,453	0
500137	Hypochorite Controls& Conversion	8/1/1994	19,167	53	40,641	113
500138	SGTP Improvements	3/1/1978	4,680	0	19,330	0
500139	Sludge Beds	1/1/1970	6,150	0	51,061	0
500140	BTTP Automatic Flor Sys	5/31/1989	5,032	0	12,502	0
500141	SGTP Cmprssr Wall	6/30/1981	5,401	0	17,518	0
500142	SGTP Clearwell No. 1 - Capitalized Interest	4/1/1997	20,348	1,866	40,053	3,673
500143	Flor Storage Area Roofs	8/31/1986	3,048	0	8,137	0
500144	S.G. Improvements	6/1/1976	5,817	0	27,779	0
500145	SGTP - Reroof Portion	6/30/1984	3,674	0	10,161	0
500146	Acid Feed System Bttp	11/30/1990	4,189	0	10,150	0
500147	BTTP Clairifier Overhall	8/1/1994	17,558	49	37,229	103
500148	BT Modernization	3/31/1982	1,458,679	0	4,372,605	0
500149	San Geronimo Trmnt Plnt	7/1/1976	2,220,701	0	10,604,980	0
500149	SAN GERONIMO TREATMENT PLANT	1/11/2007	190,890	0	274,727	0
500149	SGTP COATING PJCT	6/30/2008	934,257	528,172	1,289,085	728,771
500149	SGTP SUPERINTENDANT'S OFFICE REMODEL	9/30/2008	27,719	17,068	38,246	23,550
500149	SGTP WASTE WATER #2 MOTOR RECOVERY REPLACEMENT	12/31/2009	1,527	0	2,043	0
500149	SGTP WINDOW GLASS REPLACEMENT PROJECT	12/31/2009	81,467	51,428	108,995	68,806
500149	SGTP BUILDING EXTERIOR RECOATING PROJECT	12/31/2009	418,033	111,721	559,291	149,473
500149	TREATMENT PLANTS LAB FUME HOOD MONITORS	12/21/2010	4,195	0	5,466	0
500149	SGTP GUARD RAIL PROJECT	10/31/2011	263,426	35,124	333,021	44,403
500150	San Geronimo Plant	1/1/1958	1,739,578	0	26,279,317	0
500151	Chlorine Injector Pump	10/1/2000	2,136	393	3,938	724
500154	Bon Tempe Clarifier & Modifications	7/1/1993	662,222	0	1,457,280	0
500155	BT Modernization	6/30/1982	389,239	0	1,166,801	0
500156	San Geronimo Clarifer And Repairs	7/1/1993	701,817	0	1,544,413	0
500157	"SG, BTTP & Ignacio Disinfection System"	6/30/1995	2,751,845	756,757	5,767,080	1,585,946
500158	SGTP Clearwell No. 2	4/1/1997	3,839,858	351,987	7,558,315	692,845
500159	Bon Tempe Plant	1/1/1958	1,198,651	0	18,107,684	0
500160	RMPP & Alter. Disinfect Sty	3/31/1998	5,843	730	11,316	1,414
500161	Hypoclorite Conversion/Container Addtl Costs	7/1/1994	2,808	0	5,954	0
500162	Purification equipment	4/1/1999	6,660	833	12,603	1,576
500163	Orionresearch	9/1/1998	5,995	634	11,610	1,228
500164	Milton Roy	7/1/1998	6,500	650	12,588	1,258
500165	Bon Tempe Flash Mix Injctr	6/30/1998	8,929	1,191	17,293	2,306
500166	Alamedaelectric	11/1/1998	2,600	289	5,035	559
500167	Alamedaelectric	9/1/1998	2,650	281	5,132	545
500168	2 Duratrec Chemical Sensors	3/31/1998	3,500	437	6,778	846
500169	Alamedaelectric	9/1/1998	3,125	331	6,052	641
500170	Phase Microscope W/Digital	10/1/2000	8,388	1,541	15,460	2,841
500171	Alamedaelectric	9/1/1998	3,686	389	7,139	754
500172	SGTP Floc-Sed Tank #2	5/31/1989	211,692	0	525,950	0
500173	Washwtr Hypo Fac Install	1/1/1999	221,434	0	419,006	0
500174	SGTP Modernization	5/31/1989	135,204	16,921	335,915	42,040
500175	S.G. Sludge Bulkheads	6/30/1985	55,066	0	150,509	0
500176	SGTP Pump Pit Enclosure	2/28/1986	69,470	0	185,458	0
500177	Floridation Facilities	6/1/1977	106,959	0	476,084	0
500178	Recoat Clarifier #L Sgtp	5/31/1992	147,367	0	338,970	0
500179	B.T.T.P. Replace Havc System	6/30/1994	58,368	0	123,761	0
500180	BTTP Emerg Generator Replc	4/1/1999	182,588	0	345,499	0
500181	B.T.T.P. Expansion	6/30/1981	55,485	0	179,969	0
500182	SGTP Filter Gate Ops	9/1/1998	157,354	0	304,745	0

Appendix B - Table 11, Asset Class 5000 Water Treatment Plants **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
500183	SGTP Backwash System	7/31/1991	61,926	0	146,852	0
500184	Bon Tempe Clearwell No. 1	7/1/1996	204,211	13,614	416,473	27,765
500185	SGTP Filters 5 & 6 Underdrains	6/30/1997	377,599	0	743,260	0
500186	Hypochorite Conversion/Container Upgrade	6/30/1994	289,819	0	614,519	0
500188	SGTP Modernization	6/30/1992	686,448	137,289	1,578,952	315,790
500189	Bontempe Clearwell #1	6/30/1996	946,239	63,083	1,929,786	128,653
500191	BTTP 2Nd Wash Rcvry Pmp	5/31/1989	72,765	0	180,785	0
500193	"#1-#4 Underdrain Repairs, San Geronimo"	6/30/1996	633,893	190,168	1,292,779	387,835
500194	SGTP Clearwell No. 1	4/1/1997	677,198	62,077	1,332,986	122,191
500195	BTTP Additional I/0	6/30/1992	150,638	0	346,494	0
500196	BTTP Clarifier Overhaul	6/30/1994	179,060	0	379,671	0
500200	BTTP FILTER REHABILITATION PJCT	6/30/2003	1,575,684	468,781	2,698,718	802,895
500201	TREATMENT PLANT UPGRADE PJCTS FOR PM	6/1/2003	142,142	42,459	243,451	72,720
500202	SGTP CATCH BASIN MODIFICATIONS	7/1/2004	23,911	7,970	38,533	12,844
500203	SGTP CLARIFIER DRAW DOWN PUMP CONNECTIONS	10/31/2004	5,387	1,840	8,681	2,966
500204	SGVTP POLYMER SPLITTER CABINET	1/31/2005	13,354	4,674	20,564	7,197
500205	SGTP SEPTIC SYSTEM REPLACEMENT	6/30/2006	175,658	64,439	259,841	95,321
500206	BTTP UNINTERRUPTABLE POWER SUPPLY	6/30/2006	149,847	14,167	221,661	20,956
500207	FERRIC CHLORIDE CONVERSION	2/28/2007	38,543	16,059	55,470	23,112
500208	PLANT SECURITY FENCING PJCT-VARIOUS	3/31/2007	108,366	0	155,959	0
500210	BON TEMPE SLUICE GATE REPLACEMENT	3/31/2009	147,757	68,953	197,686	92,253
500212	SGTP FILTER & UNDERDRAIN REPAIR	3/31/2009	31,401	14,654	42,012	19,606
500213	BTTP CLAIRFIER DRAW DOWN PUMP	3/31/2009	15,850	7,441	21,205	9,955
500214	BTTP FILTER CONTROLS MODERNIZATION PRP	3/31/2009	440,181	217,602	588,923	291,131
500215	SGTP UNDERGROUND STORAGE TANK REMOVAL	3/31/2009	64,043	0	85,683	0
500216	BTTP LAKE INTAKE INSPECTION	3/31/2009	18,202	0	24,352	0
500218	BTTP SLUDGE POND CONSTRUCTION	3/31/2009	6,927	3,233	9,268	4,325
500219	NIKE MISSILE SITE STUDY	3/31/2009	162,802	0	217,814	0
500220	SGTP PROPANE GAS LINE REPLACEMENT	3/31/2009	13,221	6,170	17,688	8,255
500222	BTTP FERRIC CHLORIDE PROJECT	3/31/2009	45,080	21,037	60,313	28,146
500223	SGTP FILTER #2 UNDERDRAIN REPAIR	3/31/2009	18,824	8,784	25,184	11,753
500224	CHLORINE ANALYZER REPLACEMENT PJCT	3/31/2009	68,196	32,961	91,240	44,099
500225	BTTP SEISMIC RETROFIT	3/31/2009	2,859	1,334	3,824	1,785
500226	SGTP & BTTP RAPID SAND FILTER ACCESS PJCT	10/31/2009	128,274	65,818	171,619	88,059
500227	SGTP HYPOCHL0RITE TANK REPLACEMENT	12/31/2009	99,772	2,419	133,486	3,236
500228	SGTP CLARIFIER #1 DRIVE REPAIR	12/31/2009	156,102	0	208,850	0
500229	BTTP CHEMICAL METERING PUMP	12/31/2009	9,297	0	12,439	0
500230	SGTP SANITARY DRAIN REPAIR/ REPLS	12/31/2009	2,726	1,394	3,648	1,864
500231	SGTP BACKWASH VALVE REPLACEMENT	12/31/2009	16,611	0	22,223	0
500232	SGTP INFLUENT CHANNEL DIVIDER	12/31/2009	16,775	8,387	22,443	11,221
500234	SGTP CLARIFIER #2 RECOATING PJCT	10/31/2011	1,137,897	546,198	1,438,519	690,498
500236	TREATMENT PLANT VALVE REPAIR & REPLACEMENT	6/30/2012	257,558	50,535	317,266	62,250
500237	BON TEMPE TREATMENT PLANT FILTER VALVE REPLMNT	6/30/2012	96,455	18,764	118,816	23,114
500238	IGNACIO TREATMENT PLANTS-INSTALL 7 CHEMICAL PUMPS	1/1/2013	187,609	115,692	225,328	138,952
500240	BTTP HYPOCHL0RITE TANK REPLACEMENT	7/1/2012	117,312	23,462	144,508	28,902
500241	SGTP HYPOCHL0RITE TANK#1 REPLACEMENT	6/30/2013	90,220	23,557	108,359	28,294
500242	CHEMICAL METERING PUMP REPL PROJECT	7/1/2012	240,931	53,170	296,784	65,496
500243	BON TEMPE TREATMENT PLANT PILOT UPGRADE	10/24/2013	19,653	14,371	23,604	17,260
500244	SGTPL PROGRAMMABLE LOGIC CONTROLLERS UPGRADE	4/1/2014	219,471	106,992	256,624	125,104
500247	LAS GALLINAS BIRD NETTING REPAIR	9/1/2014	2,694	419	3,150	490
500248	SGTP FILTER INFLUENT SLUICE GATE	9/1/2014	63,485	21,162	74,232	24,744
500248	SGTP FILTER#4 INFLUENT SLUICE GATE	9/1/2014	21,342	7,114	24,955	8,318
500249	SGTP SURFACE WASH BACKFLOW PREVENTION	9/1/2014	51,040	25,520	59,680	29,840
500250	TREATMENT PLANT CHEMICAL FALL PROTECTION	9/1/2014	9,506	764	11,115	894
500251	BTTP BACKWASH RATE VALVE	9/1/2014	85,588	28,529	100,077	33,359
500253	BON TEMPE TRMT PLANT LANDSLIDE SLIDE INCLINOMETER	9/1/2014	4,840	1,613	5,659	1,886
500254	BTTP CWI ACCESS	9/1/2014	2,271	1,135	2,655	1,328
500256	SGTP POWDERED ACTIVATED CARBON	9/1/2014	30,211	189	35,326	221
500257	SGTP FILTER #3 UNDERDRAIN REPAIR	9/1/2014	20,799	13,866	24,320	16,213
500258	SGTP CARPET REPLACEMENT	9/1/2014	3,690	244	4,315	285

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
500259	SGTP SLUDGE BED MINOR IMPROVEMENT	9/1/2014	273,848	182,565	320,206	213,471
500259	SGTP SLUDGE BED REBUILD	9/1/2014	70,476	47,376	82,406	55,395
500260	BTTP SEPTIC SYSTEM REPAIR	9/1/2014	138,437	46,146	161,872	53,957
500261	CAUSTIC SODA CONTAINMENT IMPROVEMENT	9/1/2014	24,974	8,325	29,202	9,734
500262	SGTP FLOW METER	9/1/2014	43,387	14,462	50,731	16,910
500263	IPS HYPO TANK #1 REPLACEMENT	9/1/2014	23,647	7,882	27,650	9,217
500264	TREATMENT PLANT WQ LAB FUM HOOD REPLACEMENT	9/1/2014	67,843	22,614	79,328	26,443
500265	TREATMENT PLANT SURFACE SCATTER TURBIDMENT REPL	9/1/2014	47,395	15,798	55,418	18,473
500266	BTTP CLARIFIER FLOC DRIVE GEARBOX	9/1/2014	41,774	13,925	48,846	16,282
500267	OPERATOR DOWN ALARM SYSTEM AT BTTP & SGTP	7/1/2014	25,653	8,551	29,996	9,999
500268	SGTP WASH WATER RETURN PUMPS	7/1/2014	94,828	31,609	110,881	36,960
500269	SGTP FILTER ISOLATION VALVES	7/1/2014	110,168	36,723	128,818	42,939
500270	TREATMENT PLANT WATER SOFTNERS REPLACEMENT	7/1/2014	13,562	4,521	15,857	5,286
500272	BON TEMPE TP RAW WATER METER REPLACEMENT	7/1/2014	11,029	3,676	12,896	4,299
500273	SGTP SODIUM HYPOCHLORITE CHEM METERING PUMP	7/1/2014	80,820	40,410	94,501	47,251
500274	BTTP SLUDGE PIPING IMPROVEMENT	7/1/2014	1,817	1,363	2,125	1,594
500276	SGTP ELECTRICAL SERVICE UPGRADE	7/1/2014	2,169,081	757,563	2,536,272	885,807
500277	BON TEMPE TREATMENT PLANT CLARIFIER COATING	4/1/2015	49,525	18,985	54,945	21,062
500278	SGTP N. MARIN LINE PUMP CONTROL VALVE-2 REPL	4/1/2015	33,246	12,744	36,884	14,139
500279	SGTP FLASH MIXER VFD REPLACEMENT	5/1/2015	6,164	2,748	6,838	3,048
500280	WATER TREATMENT PLANTS-MASTER PLAN	5/1/2015	279,885	23,547	310,514	26,124
500281	SGTP ZINC CHEMICAL ROOM REPAIRS	5/1/2015	43,753	35,561	48,541	39,453
500282	SGTP SLUDGE PUMP REPLACEMENT	2/29/2016	27,452	19,750	30,310	21,806
500283	SGTP VINYL FLOORING OPERATION & BREAK ROOM	6/30/2017	9,688	2,826	10,346	3,018
500285	TRMT PLNT SURFACE WASH VALVE & BTTP BKWASH VALV	3/30/2018	4,159	2,403	4,311	2,491
500286	WTP FILTER SEISMIC REHAB	8/22/2018	511,070	410,275	529,735	425,259
500287	SAN GERONIMO TREATMENT PLT AIR COMPRESSOR REPL	1/31/2019	38,427	24,337	39,057	24,736
500288	BTTP FERRIC CHLORIDE CHEMICAL METERING PUMP	1/31/2019	28,938	13,022	29,413	13,236
500289	BTTP FLUORIDE CHEMICAL METERING PUMP	1/31/2019	15,144	6,815	15,393	6,927
500290	SGTP FERRIC CHLORIDE CHEMICAL METERING PUMP	1/31/2019	18,463	8,308	18,766	8,445
500291	FLUROIDE ANALYZER REPLACEMENT PJCT	2/28/2019	1,549	1,269	1,574	1,290
500295	BON TEMPE TREATMENT PLANT LIGHTING UPGRADE	10/31/2020	22,884	17,163	22,884	17,163
500296	BON TEMPE AMMONIA ROOM STAINLESS PIPING	10/23/2020	57,224	51,860	57,224	51,860
500297	SGTP SEPTIC SYSTEM REPAIR	10/31/2020	177,214	113,978	177,214	113,978
500298	IPS HYPO TANK REPLACEMENT	2/12/2021	17,405	12,322	19,163	13,566
500299	SGTP CAUSTIC TANK REPLACEMENT	3/31/2021	2,258	1,756	2,486	1,933
500300	BTTP AMMONIA TANK REPLACEMENT	3/24/2021	56,220	42,452	61,896	46,738
500301	LGVRP POND INLET SUMP VALVE REPLACEMENT	6/30/2021	6,277	3,890	6,911	4,283
500302	SGTP TEMPORARYEMERGENCY GENERATOR	8/27/2020	50,067	36,880	50,067	36,880
500303	CHEMICAL METERING DIAPHRAGM PUMP INSTALL	2/28/2022	149,299	125,245	153,330	128,627
500304	SGTP LIGHTING UPGRADE	4/5/2022	1,879	0	1,930	0
500305	SGTP SLUDGE LINE EMERGENCY REPAIR	6/30/2022	49,827	46,367	51,173	47,619
500306	SGTP EMERGENCY GENERATOR PROJECT	9/14/2023	7,052,869	5,735,262	7,052,869	5,735,262
500307	IGNACIO TREATMENT PLANT SECURITY PROJECT	1/8/2024	3,525	3,349	3,525	3,349
Totals Asset Class 5000 Water Treatment Plants			**$45,757,736**	**$13,206,714**	**$123,473,154**	**$16,886,192**

Appendix B - Table 12, Asset Class 9001 Construction in Progress **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
900022	WATER QUALITY LAB UPGRADES-CONST.	7/31/2001	$0	$0	$0	$0
900031	TIBURON LOWER TANK NO. 2 -CONST.	8/31/2001	0	0	0	0
900039	1999-2000 SCADA REPL. PRJCT.-CONST.	5/31/2002	0	0	0	0
900070	PUMP STA. EMERG. RESP. RETRO-CONST.	3/31/2003	0	0	0	0
900083	SUMMIT DR PUMP STA. REHAB.-CONST.	7/31/2001	0	0	0	0
900116	LAGUNITAS PMP STA SEISMIC-CONST.	7/31/2001	0	0	0	0
900123	VALLEY VIEW&FAIRHILLS PIPELINE-CONST.	7/31/2001	0	0	0	0
900130	UPPER TOYON PIPELINE REPL.-CONST.	7/31/2001	0	0	0	0
900132	CASCADE CANYON PIPELINE REPL.-CONST	7/31/2001	0	0	0	0
900133	CASCADE CANYON PHASE 3-CONST.	7/31/2001	0	0	0	0
900134	CASCADE DR PIPELINE REPL.-CONST.	7/31/2001	0	0	0	0
900135	SUMMIT AVE / ETHEL AVE REPL.-CONST.	7/31/2001	0	0	0	0
900137	WEST POINT INN RESTORATION-CONST.	7/31/2001	0	0	0	0
900225	RICHARDSON LNDG.-PIPELINE-CONST.	8/31/2001	0	0	0	0
900235	FERNWOOD ESTATES - PIPE - CONST.	9/30/2001	0	0	0	0
900264	HILLSIDE AVE-PIPELINE-CONST.	7/31/2001	0	0	0	0
900265	HILLSIDE AVE-HYDRANT-CONST.	3/31/2004	0	0	0	0
900266	HILLSIDE AVE-SERVICES-CONST.	6/30/2005	748	748	1,151	1,151
900282	TANK RECOATING PROJECT - CONST	9/30/2001	0	0	0	0
900285	KENT FIRE TRAIL TANKS & PUMP - CONST	8/31/2001	0	0	0	0
900301	MARINWOOD TK SEISMIC RETROFIT - CONST	9/30/2001	0	0	0	0
900313	250 STADIUM WAY - HYDRANT - CONST.	2/28/2002	0	0	0	0
900329	2002/03 FFMP San Rafael Pipeline-Design	2/28/2002	0	0	0	0
900330	2002/03 FFMP San Rafael Pipeline-Const.	4/30/2002	0	0	0	0
900331	2002/03 FFMP Mill Valley Pipel. -Design	2/28/2002	0	0	0	0
900332	2002/03 FFMP Mill Valley Pipel. - Cons	8/31/2002	0	0	0	0
900333	Richardson Drive Pressure Sys. - Design	3/31/2002	0	0	0	0
900334	Richardson Drive Pressure Sys. - Const.	8/31/2002	0	0	0	0
900337	2002-03 Kent Wdlnds FFMP Phase II-Design	2/28/2002	0	0	0	0
900338	2002-03 Kent Wdlnds FFMP Phase II-Const.	8/31/2002	0	0	0	0
900348	2001-02 Ross Valley PRP Phase IV-Design	2/28/2002	0	0	0	0
900349	2001-02 Ross Valley PRP Phase IV-Const.	3/31/2003	0	0	0	0
900350	Mill Valley Pipeline Repl Prjct.- Design	2/28/2002	0	0	0	0
900351	Mill Valley Pipeline Repl. Prject-Const.	8/31/2002	0	0	0	0
900367	2 Shoreline Parkway, SR - Const	6/30/2002	0	0	0	0
900369	High Street Pipeline Repl - Design	5/31/2002	0	0	0	0
900370	High Street Pipeline Repl. - Const.	7/31/2002	0	0	0	0
900371	Concrete Pipe Road Pipline - Design	5/31/2002	0	0	0	0
900372	Concrete Pipe Road Pipeline - Const.	7/31/2002	0	0	0	0
900391	626 Tamalpais Avenue, CM - FL-Const.	8/31/2002	0	0	0	0
900402	Throckmorton Booster Sta. Rehab.-Design	8/31/2002	0	0	0	0
900403	Throckmorton Booster Sta. Rehab.-Const.	10/31/2002	0	0	0	0
900411	SGTP Setpic Sys. Replacement-Design	9/30/2002	0	0	0	0
900412	SGTP Setpic Sys. Replacement-Const.	9/30/2002	0	0	0	0
900426	02/03 San Anselmo Pipeline Repl.-Design	10/31/2002	0	0	0	0
900427	02/03 San Anselmo Pipeline Repl.-Const.	1/31/2003	0	0	0	0
900431	02/03 Pipeline Repl. - WEST - Design	11/30/2002	0	0	0	0
900432	02/03 Pipeline Repl. - WEST - Const.	5/31/2003	0	0	0	0
900443	Golf Avenue Fire Hydrant - Const.	12/31/2002	0	0	0	0
900458	Voice Radio - Replace Controllers- Const	3/31/2003	0	0	0	0
900460	BTTP UPS Installation - Design	1/31/2003	0	0	0	0
900461	BTTP UPS Installation - Construct	10/31/2004	0	0	0	0
900462	03/04 FFMP Norman Way Reg.&Pipe-Design	2/28/2003	0	0	0	0
900463	03/04 FFMP Norman Way Re&Pipe-Const.	4/30/2003	0	0	0	0
900464	Bridgeway Valve Replacement-Design	1/31/2003	0	0	0	0
900465	Bridgeway Valve Replacement-Const.	2/28/2003	0	0	0	0
900466	Miracle Mile Valve Replacement-Design	2/28/2003	0	0	0	0

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
900467	Miracle Mile Valve Replacement-Const.	4/30/2003	0	0	0	0
900468	03/04 FFMP Bret Harte Rd. -Desgin.	2/28/2003	0	0	0	0
900469	03/04 FFMP Bret Harte Rd. - Construct	9/30/2003	0	0	0	0
900470	03/04 FFMP Tam Valley Pipeline-Design	1/31/2003	0	0	0	0
900471	03/04 FFMP Tam Valley Pipeline-Const.	5/31/2003	0	0	0	0
900472	Resaca Avenue Repair	2/28/2003	0	0	0	0
900473	Resaca Avenue Repair	6/30/2007	0	0	0	0
900474	Madera Park Pressure System Pump-Design	2/28/2003	0	0	0	0
900475	Madera Park Pressure System Pump-Const.	7/31/2003	0	0	0	0
900482	Monte Mar Vista Tank Replacement-Design	2/28/2003	0	0	0	0
900483	Monte Mar Vista Tank Replacement-Const.	12/31/2004	0	0	0	0
900485	03/04 FFMP Corte Madera Pipeline-Design	2/28/2003	0	0	0	0
900486	03/04 FFMP Corte Madera Pipeline-Const.	10/31/2003	0	0	0	0
900487	Ignacio Chemical Tanks & Diffuser Pit	4/30/2003	0	0	0	0
900493	Garage at Phoenix Lake Residence-Design	3/31/2003	0	0	0	0
900494	Garage at Phoenix Lake Residence-Const.	5/31/2003	0	0	0	0
900502	Bon Tempe Sluice Gate Replacement	12/31/2003	0	0	0	0
900526	03/04 FFMP Country Club Pipeline Design	5/31/2003	0	0	0	0
900527	03/04 FFMP Country Club Pipeline Const.	3/31/2004	0	0	0	0
900528	18 Baywood Tr., San Rafael	8/31/2003	0	0	0	0
900540	575 Drake Blvd., Greenbrae 8587F	7/31/2003	0	0	0	0
900556	03/04 Corrosion Test Station Rehab.-Cons	8/31/2003	0	0	0	0
900560	03/04 Pipeline Replacement North - Desig	8/31/2003	0	0	0	0
900561	03/04 Pipeline Replacement North - Const	10/31/2003	0	0	0	0
900562	Facility Capital Maintenance - Desig	9/30/2003	0	0	0	0
900563	Facility Capital Maintenance - Const	10/31/2003	0	0	0	0
900579	Marin Pipeline Repel. Project - Design	9/30/2003	0	0	0	0
900580	Marin Pipeline Replacement Project - Con	11/30/2003	0	0	0	0
900581	1500 Butterfield Rd San Dominico -Const	11/30/2003	0	0	0	0
900585	Marion Avenue Sausalito Pipeline -Design	10/31/2003	0	0	0	0
900586	Marion Avenue Sausalito Pipeline -Const.	1/31/2004	0	0	0	0
900587	2004/05 FFMP Cypress Ridge PRP Design	10/31/2003	0	0	0	0
900588	2004/05 FFMP Cypress Ridge PRP Constr	11/30/2004	0	0	0	0
900592	Desalination Project - Studies	11/30/2003	85,933	85,933	147,179	147,179
900594	Oak Knoll Drive, San Anselmo PEA-Pipelin	12/31/2003	0	0	0	0
900595	Oak Knoll Drive, San Anselmo PEA-Service	1/31/2004	0	0	0	0
900601	Butterfield Rd., S.A. San Domenico-Pipe	12/31/2003	0	0	0	0
900602	Butterfield Rd., S.A. San Domenico-Hyd.	8/31/2004	0	0	0	0
900603	Butterfield Rd., S.A. San Domenico-Servi	8/31/2004	0	0	0	0
900623	04/05 FFMP Summit Ave PRP Design	1/31/2004	0	0	0	0
900624	04/05 FFMP Summit Ave PRP Constr	9/30/2004	0	0	0	0
900625	04/05 FFMP Lovell Avenue PRP Design	1/31/2004	0	0	0	0
900626	04/05 FFMP Lovell Avenue PRP Constr	12/31/2004	0	0	0	0
900627	04/05 FFMP Blithedale Canyon PRP Design	1/31/2004	0	0	0	0
900628	04/05 FFMP Blithedale Canyon PRP Constr	5/31/2004	0	0	0	0
900631	SCADA System Upgrade- Design	3/31/2004	0	0	0	0
900632	SCADA System Upgrade-Const.	6/30/2004	0	0	0	0
900649	New PRP Various Locations FY 2004-Design	2/29/2004	0	0	0	0
900650	New PRP Various Locations FY 2004-Constr	8/31/2004	0	0	0	0
900708	WATER QUALITY LAB UPGRADES-DEMOLITION	9/30/2004	0	0	0	0
900721	Wireless Video Camera Pilot Project	10/31/2004	0	0	0	0
900724	05/06 FFMP Alto Tiburon PRP-Design	9/30/2004	0	0	0	0
900725	05/06 FFMP Alto Tiburon PRP-Const	3/31/2005	0	0	0	0
900747	Desalination Project - Design	10/31/2004	199,299	199,299	321,171	321,171
900748	Desalination Project - Construct	11/30/2004	572,008	572,008	921,794	921,794
900749	05/06 FFMP West End /San Rafael	10/31/2004	0	0	0	0
900750	05/06 FFMP West End /San Rafael	3/31/2005	0	0	0	0

Appendix B - Table 12, Asset Class 9001 Construction in Progress **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
900751	05/06 FFMP H Line Tank System Phase I	11/30/2004	0	0	0	0
900752	05/06 FFMP H Line Tank System Phase I	11/30/2004	0	0	0	0
900753	05/06 FFMP H Line Tank System Phase II	11/30/2004	0	0	0	0
900754	05/06 FFMP H Line Tank System Phase II	11/30/2004	0	0	0	0
900763	Rosario Road, Forest Knolls -Pipel	12/31/2004	0	0	0	0
900764	Rosario Road, Forest Knolls -Hydra	4/30/2005	0	0	0	0
900765	Rosario Road, Forest Knolls -Servi	4/30/2005	0	0	0	0
900795	Old Lab - Computer Equipment -Training	3/31/2005	0	0	0	0
900796	Old Lab - Furniture	5/31/2005	0	0	0	0
900825	301 Sir Francis Drake Bl, Greenbrae	3/31/2005	0	0	0	0
900916	Access Control & Alarm Monitoring Proj	8/31/2005	0	0	0	0
900917	Access Control & Alarm Monitoring Proj	10/31/2005	0	0	0	0
900920	Mission Avenue, San Rafael -Pipeline	9/30/2005	2,157	2,157	3,322	3,322
900970	05/06 FFMP Concrete Pipe Rd Retaining Wa	12/31/2005	0	0	0	0
900971	05/06 FFMP Concrete Pipe Rd Retaining Wa	2/28/2006	0	0	0	0
900981	2006-07 FFMP Country Club Area, SR-Desg	1/31/2006	0	0	0	0
900982	2006-07 FFMP Country Club Area, SR-Const	6/30/2007	0	0	0	0
900989	2006/07 FFMP Glenwood Area PRP-Desg	3/31/2006	0	0	0	0
900990	2006/07 FFMP Glenwood Area PRP-Const	10/31/2008	0	0	0	0
901001	2006-07 FFMP Strawberry Point PRP-Desg	3/31/2006	0	0	0	0
901002	2006-07 FFMP Strawberry Point PRP-Const	6/30/2006	0	0	0	0
901007	2006/07 FFMP Sausalito Blvd., Sausalito-	3/31/2006	0	0	0	0
901008	2006/07 FFMP Sausalito Blvd., Sausalito-	5/31/2006	0	0	0	0
901013	Mill Valley Watersheds Sed.Control-Const	1/31/2008	(238)	(238)	(328)	(328)
901102	2007-08 FFMP Tamalpais Valley PRP-Design	10/31/2006	0	0	0	0
901103	2007-08 FFMP Tamalpais Valley PRP-Const	3/31/2008	0	0	0	0
901119	2007-08 FFMP Summit/Fairway PRP-Design	10/31/2006	0	0	0	0
901120	2007-08 FFMP Summit/Fairway PRP-Const	4/30/2008	0	0	0	0
901165	Oak Road, Larkspur PEA-Pipeline	2/28/2007	11,813	11,813	17,001	17,001
901217	Hind Tanks Replacement - Design	8/31/2007	12,362	12,362	17,791	17,791
901218	Hind Tanks Replacement - Construct	9/30/2007	36,418	36,418	52,412	52,412
901281	Water Quality Lab Security System Proj	9/30/2007	0	0	0	0
901282	Water Quality Lab Security System Proj	11/30/2007	0	0	0	0
901297	Larkspur Landing Circle- Pipeline	11/30/2007	0	0	0	0
901333	2005-06 FFMP, Landscpe Rest Alto-Tib PRP	1/31/2008	0	0	0	0
901334	2005-06 FFMP, Landscpe Rest Alto-Tib PRP	4/30/2008	0	0	0	0
901350	Gunsite Pass Access Improvement Culvert	4/30/2008	0	0	0	0
901351	Gunsite Pass Access Improvement Culvert	8/31/2008	0	0	0	0
901442	Voice Recorder Replacement	1/31/2009	0	0	0	0
901444	2008-09 FFMP Baltimore Canyon Area PRP	9/30/2008	0	0	0	0
901445	2008-09 FFMP Baltimore Canyon Area PRP	1/31/2009	0	0	0	0
901460	Fueling Stations Phase II EVR Upgrade	10/31/2008	0	0	0	0
901461	Fueling Stations Phase II EVR Upgrade	3/31/2009	0	0	0	0
901471	2009-2010 FFMP Summit Avenue-Design	11/30/2008	0	0	0	0
901472	2009-2010 FFMP Summit Avenue-Const.	7/31/2009	0	0	0	0
901478	2008-2009 PRP - Design	12/31/2008	0	0	0	0
901479	2008-2009 PRP - Construction	4/30/2009	0	0	0	0
901496	Phone System Software Upgrade	3/31/2009	0	0	0	0
901501	Voice Radio Replacement Project	4/30/2010	0	0	0	0
901502	Voice Radio Replacement Project	6/30/2009	0	0	0	0
901511	148 Francis, FX Upgrade HY-03193	2/28/2013	0	0	0	0
901512	49 Manzanita Rd., FX Upgrade HY-01976	2/28/2009	0	0	0	0
901513	SGTP Surface Wash Backflow Prevention Pr	3/31/2009	0	0	0	0
901514	SGTP Surface Wash Backflow Prevention Pr	5/31/2009	0	0	0	0
901516	San Geronimo Booster #4	9/30/2009	0	0	0	0
901518	Alpine Bon Tempe Pump	6/30/2009	0	0	0	0
901520	Replacement of Failed Control Systems	3/31/2009	0	0	0	0

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
901522	SGTP Clarifier #1 Drive Repair	3/31/2009	0	0	0	0
901524	Control Valve Replacement	4/30/2009	0	0	0	0
901526	Hydrants -3 new / 2 upgrades - Cnty Fire	3/31/2009	0	0	0	0
901529	2010 Best Mgmt Practices Culvert Upgrds	3/31/2009	0	0	0	0
901530	2010 Best Mgmt Practices Culvert Upgrds	9/30/2010	0	0	0	0
901531	Lagunitas Rd Bridge PRP-Design	3/31/2009	0	0	0	0
901532	Lagunitas Rd Bridge PRP-Construction	6/30/2009	0	0	0	0
901533	Crown Ct PRP-Design	3/31/2009	0	0	0	0
901534	Crown Ct PRP-Construction	5/31/2009	0	0	0	0
901535	Pine Court Pipeline Replacement-Design	5/31/2009	0	0	0	0
901536	Pine Court Pipeline Replacement-Construc	5/31/2009	0	0	0	0
901537	3rd and Union Street Piping Offset-Desig	4/30/2009	0	0	0	0
901538	3rd and Union Street Piping Offset-Const	6/30/2009	0	0	0	0
901539	Vista del Mar Pipeline Replacement Proje	4/30/2009	0	0	0	0
901540	Vista del Mar Pipeline Replacement Proje	5/31/2009	0	0	0	0
901541	Nova Albion PRP-Design	5/31/2009	0	0	0	0
901542	Nova Albion PRP-Construct	6/30/2009	0	0	0	0
901543	Asbestos Abastement of Roof Panels Yard	5/31/2009	0	0	0	0
901544	Asbestos Abastement of Roof Panels Yard	6/30/2009	0	0	0	0
901545	Ross Pipeline Replacement Project-Design	4/30/2009	0	0	0	0
901546	Ross Pipeline Replacement Project-Const.	5/31/2009	0	0	0	0
901548	Phoenix Lake Water Supply Project-Barge	5/31/2009	0	0	0	0
901549	Phoenix Lake Water Supply Proj-Barge Pum	5/31/2009	0	0	0	0
901551	Phoenix Lk Water Suply-Repl Booster Pump	5/31/2009	0	0	0	0
901553	Trtmnt Plant Chem Fall Protection-Const.	6/30/2009	0	0	0	0
901555	Ethel Avenue, MV PRP-Design	5/31/2009	0	0	0	0
901556	Ethel Avenue, MV PRP-Const.	6/30/2009	0	0	0	0
901557	Mill Valley Tank Mixer Project-Design	4/30/2009	0	0	0	0
901558	Mill Valley Tank Mixer Project-Const.	6/30/2009	0	0	0	0
901561	BTTP Backwash Rate Valve-Design	9/30/2009	0	0	0	0
901562	BTTP Backwash Rate Valve-Const.	9/30/2009	0	0	0	0
901563	SGTP Hypo Tank Replacement-Design	9/30/2009	0	0	0	0
901564	SGTP Hypo Tank Replacement-Const.	6/30/2009	0	0	0	0
901565	2009-10 FFMP Bayside Acres Area PRP-Desi	5/31/2009	0	0	0	0
901566	2009-10 FFMP Bayside Acres Area PRP-Cons	11/30/2009	0	0	0	0
901568	Rafael Highlands Tk Seismic Retro-Design	6/30/2009	0	0	0	0
901569	Rafael Highlands Tk Seismic Retro-Const.	11/30/2009	0	0	0	0
901571	Beach Road PRP - Design	5/31/2009	0	0	0	0
901572	Beach Road PRP - Construction	6/30/2009	0	0	0	0
901573	Southern Marin Line Rd Retaining Wall	5/31/2009	0	0	0	0
901574	Southern Marin Line Rd Retaining Wall	6/30/2009	0	0	0	0
901576	Cloudview Tank Paving	6/30/2009	0	0	0	0
901578	Marin City Tank Paving	6/30/2009	0	0	0	0
901579	2009-10 FFMP Greenbrae PRP Area PRP-Desi	5/31/2009	0	0	0	0
901580	2009-10 FFMP Greenbrae PRP Area PRP-Cons	9/30/2009	0	0	0	0
901583	Fern Canyon to Summit Easement PRP-Desi	6/30/2009	0	0	0	0
901584	Fern Canyon to Summit Easement PRP-Cons	8/31/2009	0	0	0	0
901585	Easton Point Subdivision, Tiburon	7/31/2009	10,555	10,555	14,121	14,121
901586	333 Biscayne Dr., SR Peacock Gap	6/30/2009	0	0	0	0
901587	FY 2010 New Service Installations	6/30/2009	582,031	582,031	778,706	778,706
901588	Glenwood Forrest Tank Replacement	6/30/2009	0	0	0	0
901589	Glenwood Forrest Tank Replacement	6/30/2009	0	0	0	0
901591	Mt Tam Radio Tower Project	6/30/2009	0	0	0	0
901592	Mt Tam Radio Tower Project	7/31/2009	0	0	0	0
901620	Replacement of Failed Cotnrol Systems	8/31/2009	0	0	0	0
901623	Re Roofing	8/31/2009	0	0	0	0
901727	Pine Mt Tunnel Repair/Replacement - Desi	12/31/2009	0	0	0	0

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
901728	Pine Mt Tunnel Repair/Replacement - Con	4/30/2010	0	0	0	0
901741	SGTP Electrical Service Upgrade - Design	6/30/2010	0	0	0	0
901742	SGTP Electrical Service Upgrade - Const.	7/31/2010	164	164	214	214
902118	Sky Oaks Modular Building II	3/31/2012	0	0	0	0
902119	Sky Oaks Modular Building II	4/30/2012	0	0	0	0
902151	FFIP Camino Alto Downline	6/30/2012	0	0	0	0
902152	FFIP Camino Alto Downline	1/31/2013	0	0	0	0
902401	FFIP North Marin Line Stabilization Proj	9/30/2013	211,028	211,028	253,455	253,455
902402	FFIP North Marin Line Stabilization Proj	4/30/2014	59,028	59,028	69,021	69,021
902453	SAP Upgrade Project Activity 2014-Prof	5/31/2014	108,180	108,180	126,493	126,493
902468	Village At Loch Lomond Marina P-1	4/30/2014	210,342	210,342	245,949	245,949
902469	Village At Loch Lomond Marina P-1	11/30/2014	11,419	11,419	13,352	13,352
902470	Village At Loch Lomond Marina P-1	11/30/2014	3,163	3,163	3,699	3,699
902471	Village At Loch Lomond Marina P-1	10/31/2014	34,649	34,649	40,515	40,515
902510	SAP Upgrade Project Activity 2014	9/30/2014	0	0	0	0
902610	Scott Highlands Tank Seismic Retrofit	12/31/2014	18,701	18,701	21,867	21,867
902611	Scott Highlands Tank Seismic Retrofit	2/28/2015	232	232	257	257
902616	Meadow Club Tank Staricase Project	1/31/2015	0	0	0	0
902618	Deer Park Parking Lot Paving Project	1/31/2015	0	0	0	0
902619	Deer Park Parking Lot Paving Project	8/31/2015	0	0	0	0
902636	Village At Loch Lomond Marina P- II	3/31/2015	107,741	107,741	119,531	119,531
902637	Village At Loch Lomond Marina P- II	5/31/2015	1,498	1,498	1,662	1,662
902638	Village At Loch Lomond Marina P- II	3/31/2015	10,379	10,379	11,515	11,515
902639	Village At Loch Lomond Marina P- II	3/31/2015	34,040	34,040	37,765	37,765
902640	FFIP Tiburon PRP	3/31/2015	0	0	0	0
902641	FFIP Tiburon PRP	10/31/2015	3,912,632	3,912,632	4,340,807	4,340,807
902671	Soulajule Pump Station Electrification	5/31/2015	79,840	79,840	88,578	88,578
902672	Soulajule Pump Station Electrification	6/30/2015	0	0	0	0
902682	Chula Vista Tank Seismic Retrofit	6/30/2015	0	0	0	0
902695	Soulajule Pump Station Fuel System Impro	6/30/2015	0	0	0	0
902708	Forbes Hill Tank Solar Project	7/31/2015	12,319	12,319	13,667	13,667
902709	Forbes Hill Tank Solar Project	11/30/2016	0	0	0	0
902714	Stony Hill Road, Tiburon	7/31/2015	3,120	3,120	3,461	3,461
902717	Bolsa Tank Replacement Project	7/31/2015	97,892	97,892	108,605	108,605
902718	Bolsa Tank Replacement Project	7/31/2015	307,017	307,017	340,615	340,615
902725	Sausalito Tanks Staircase Project	8/31/2015	0	0	0	0
902726	Sausalito Tanks Staircase Project	9/30/2015	0	0	0	0
902771	FFIP Sausalito PRP	9/30/2015	0	0	0	0
902772	FFIP Sausalito PRP	12/31/2015	1,109,953	1,109,953	1,231,419	1,231,419
902776	Redwood Ave PRP	10/31/2015	993	993	1,102	1,102
902777	Redwood Ave PRP	10/31/2015	2,885	2,885	3,201	3,201
902778	Ignacio Treatment Plant Security Project	10/31/2015	0	0	0	0
902787	2016 Valve Replacement Project	11/30/2015	0	0	0	0
902795	BT Filter Seismic Rehab-D	5/31/2016	0	0	0	0
902796	SG Filter Seismic Rehab-D	3/31/2016	0	0	0	0
902797	BT Filter Seismic Rehab-C	2/29/2016	9,201,486	9,201,486	10,159,291	10,159,291
902798	SG Filter Seismic Rehab-C	12/31/2016	0	0	0	0
902820	Sky Oaks Rd & Filter Plant Rd Widening	2/29/2016	0	0	0	0
902821	Sky Oaks Rd & Filter Plant Rd Widening	7/31/2023	0	0	0	0
902827	Indian Fire Trail Tank Seismic Retrofit	3/31/2016	13,506	13,506	14,912	14,912
902879	Eliseo Drive PRP	7/31/2016	122,665	122,665	135,433	135,433
902880	Eliseo Drive PRP	2/28/2018	305	305	316	316
902913	FFIP Meadowcroft Drive PRP	11/30/2016	0	0	0	0
902914	FFIP Meadowcroft Drive PRP	9/30/2017	1,066,534	1,066,534	1,138,947	1,138,947
902925	Courtwright Tank Improvement Projects	12/31/2016	0	0	0	0
902926	Courtwright Tank Improvement Projects	4/30/2017	0	0	0	0
902941	McInnis Park Pipeline Relocation Project	3/31/2017	68,277	68,277	72,913	72,913

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
902942	McInnis Park Pipeline Relocation Project	1/31/2018	41	41	42	42
902943	3rd St. PRP	3/31/2017	0	0	0	0
902944	3rd St. PRP	9/30/2017	0	0	0	0
902993	500 & 504 Miller Ave (FL-09394,FL-09395)	7/31/2017	0	0	0	0
902996	FFIP Wolfback Ridge	10/31/2017	55,016	55,016	58,751	58,751
902997	FFIP Wolfback Ridge	1/31/2018	36,378	36,378	37,706	37,706
903012	Bon Tempe North Intertie PRP	8/31/2017	10,693	10,693	11,419	11,419
903061	Bolinas Rd PRP	12/31/2017	107,024	107,024	114,291	114,291
903062	Bolinas Rd PRP	1/31/2018	6,443	6,443	6,678	6,678
903064	San Clemente Tank System Improvement	3/31/2018	0	0	0	0
903065	San Clemente Tank System Improvement	5/31/2023	0	0	0	0
903078	South St PRP	2/28/2018	100,670	100,670	104,347	104,347
903088	SGTP Clarifier Seismic Upgrade	4/30/2018	495,071	495,071	513,151	513,151
903089	SGTP Clarifier Seismic Upgrade	3/31/2018	12,805	12,805	13,272	13,272
903090	1 Sacramento Ave-San Anselmo	4/30/2018	25,600	25,600	26,535	26,535
903092	1 Sacramento Ave-San Anselmo	6/30/2018	11,349	11,349	11,763	11,763
903094	18 Varda Landing (FL-0924)	5/31/2018	6,455	6,455	6,690	6,690
903095	319 Miller Ave., MV (FL-09425)	4/30/2018	8,861	8,861	9,184	9,184
903109	Johnson St PRP	5/31/2018	7,420	7,420	7,691	7,691
903110	Johnson St PRP	6/30/2018	1,417	1,417	1,468	1,468
903111	Greenbrae Boardwalk PRP	5/31/2018	83,353	83,353	86,397	86,397
903112	Greenbrae Boardwalk PRP	6/30/2018	11,708	11,708	12,136	12,136
903123	Lake Lagunitas Flush Toilets	6/30/2019	0	0	0	0
903143	Beacon Hill Pump Station Pump Rplmnt	8/31/2018	0	0	0	0
903213	SGTP Emergency Generator	2/28/2019	0	0	0	0
903214	SGTP Emergency Generator	2/28/2019	163	163	166	166
903232	1694-1696 Tiburon Blvd (FL-09461)	4/30/2019	0	0	0	0
903236	Oak Manor 1st Pump Replacement	6/30/2019	0	0	0	0
903256	CMF and IS-U/CCS Phase II	6/30/2019	0	0	0	0
903258	471 Panoramic Hwy	7/31/2019	123	123	125	125
903277	E Blithedale Ave PRP	9/30/2019	0	0	0	0
903278	E Blithedale Ave PRP	7/31/2020	0	0	0	0
903279	Southern Marin PRP	8/31/2019	0	0	0	0
903280	Southern Marin PRP	8/31/2019	0	0	0	0
903281	Pump Station - Standby Generator #1	7/31/2019	0	0	0	0
903282	Pump Station - Standby Generator #1	5/31/2020	0	0	0	0
903284	Culvert and Stream Enhancements	8/31/2019	113,280	113,280	115,137	115,137
903285	Culvert and Stream Enhancements	8/31/2019	123,164	123,164	125,183	125,183
903291	Tocaloma Booster Pump Station Rehab	9/30/2019	74,755	74,755	75,981	75,981
903292	Tocaloma Booster Pump Station Rehab	1/31/2020	264,513	264,513	264,513	264,513
903293	Wolf Back Ridge Tank Rehabilitation	9/30/2019	40,638	40,638	41,304	41,304
903294	Wolf Back Ridge Tank Rehabilitation	12/31/2021	15,095	15,095	16,619	16,619
903309	Administration Building Standby Power	1/31/2020	37,672	37,672	37,672	37,672
903310	Administration Building Standby Power	6/30/2020	22,370	22,370	22,370	22,370
903314	CMF Adjustment Enhancements	1/31/2020	0	0	0	0
903315	Dunning&Customer Notice enhance to SB998	12/31/2019	0	0	0	0
903316	3 Wolfback Ridge Rd (FL-09488)	4/30/2020	0	0	0	0
903328	Distribution System Master Plan Study	2/29/2020	1,204,557	1,204,557	1,204,557	1,204,557
903329	Distribution System Master Plan Study	4/30/2020	4,715	4,715	4,715	4,715
903333	Greenbrae Tank Floor Recoating	2/29/2020	28,019	28,019	28,019	28,019
903334	Greenbrae Tank Floor Recoating	8/31/2020	8,828	8,828	8,828	8,828
903358	949 Del Presidio Blvd (FL-09493)	5/31/2020	0	0	0	0
903359	NML Booster Pump Replacements	5/31/2020	18,608	18,608	18,608	18,608
903360	NML Booster Pump Replacements	3/31/2021	336,066	336,066	369,998	369,998
903365	Replacement of NML Booster Meter	8/31/2020	0	0	0	0
903368	Customer Mass Payment Plans	6/30/2020	0	0	0	0
903370	Fire & Fuels: Watershed Land Improvement	6/30/2020	1,812,959	1,812,959	1,812,959	1,812,959

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903372	Fair Drive, San Rafael	6/30/2020	22,951	22,951	22,951	22,951
903373	Fair Drive, San Rafael	6/30/2020	3,530	3,530	3,530	3,530
903378	580 Red Hill Ave (FL-09497)	7/31/2020	12,728	12,728	12,728	12,728
903383	FY21 New Service Installation	7/31/2020	459,376	459,376	459,376	459,376
903384	FY21 Hydrant Body Upgrades	2/28/2021	5,858	5,858	6,450	6,450
903385	FY21 Fireline Retrofits	7/31/2020	11,392	11,392	11,392	11,392
903386	Lagunitas Ranger Residence Repair	11/30/2020	3,500	3,500	3,500	3,500
903391	3773 Redwood Hwy., San Rafael	8/31/2020	29,324	29,324	29,324	29,324
903398	Ignacio Piping/Check Valve	10/31/2020	0	0	0	0
903401	Smith Saddle Tank Rehabilitation	8/31/2020	400,632	400,632	400,632	400,632
903402	Smith Saddle Tank Rehabilitation	12/31/2020	212,419	212,419	212,419	212,419
903409	Nicasio Dam Spillway Repair	1/31/2021	0	0	0	0
903410	Nicasio Dam Spillway Repair	2/28/2021	33,723	33,723	37,128	37,128
903411	Kent Dam Spillway Repair	10/31/2020	0	0	0	0
903412	Kent Dam Spillway Repair	4/30/2021	33,723	33,723	37,128	37,128
903413	Soulajule Dam Spillway Repair	10/31/2021	0	0	0	0
903414	Soulajule Dam Spillway Repair	6/30/2021	33,723	33,723	37,128	37,128
903416	North Redwood Pump Station Bypass Valve	12/31/2020	0	0	0	0
903417	Local Hazard Mitigation Plan	9/30/2020	210,860	210,860	210,860	210,860
903418	Local Hazard Mitigation Plan	10/31/2020	872	872	872	872
903422	225 Tennessee Valley Rd (HY-09507)	11/30/2020	2,140	2,140	2,140	2,140
903426	Tennessee Valley Rectifier Upgrade	3/31/2021	20,807	20,807	22,908	22,908
903428	Water Bill Redesign SAP	1/31/2021	0	0	0	0
903431	Alpine Dam Valve Cathodic Protection	4/30/2021	63,633	63,633	70,058	70,058
903432	Alpine Dam Valve Cathodic Protection	1/31/2021	748	748	823	823
903436	250 Bon Air Rd	11/30/2020	1,578	1,578	1,578	1,578
903437	1112 2nd St	11/30/2020	5,507	5,507	5,507	5,507
903438	46 Cliff Road	1/31/2021	6,153	6,153	6,774	6,774
903439	MERA at Mill Valley Tank Site	1/31/2021	1,010	1,010	1,112	1,112
903441	2000 Paradise Dr - (FL-09511)	1/31/2021	10,454	10,454	11,509	11,509
903442	FFIP Ridge Rd PRP	12/31/2020	0	0	0	0
903443	FFIP Ridge Rd PRP	4/30/2021	0	0	0	0
903445	2225 Vistazo East St.	1/31/2021	0	0	0	0
903447	Leo Cronin Power Gate	3/31/2021	23,695	23,695	26,087	26,087
903449	Watershed Trail Enchancements	6/30/2021	3,289	3,289	3,621	3,621
903452	Watershed Culvert Repairs	4/30/2022	25,766	25,766	26,461	26,461
903453	Watershed Culvert Repairs	7/31/2021	187,786	187,786	206,746	206,746
903457	Pump Station Door Alarms	1/31/2021	215,637	215,637	237,409	237,409
903459	43 Bayview Tr. MV	1/31/2021	19,250	19,250	21,193	21,193
903460	Kastania Pump Station Rehabilitation	1/31/2021	353	353	389	389
903461	Kastania Pump Station Rehabilitation	2/28/2021	0	0	0	0
903462	Robin Drive, Corte Madera-Pipeline	4/30/2021	0	0	0	0
903463	Robin Drive, Corte Madera-Hydrant	12/31/2023	77	77	77	77
903464	Robin Drive, Corte Madera-Service	6/30/2023	1,524	1,524	1,524	1,524
903468	Manuel T Freitas PRP	3/31/2021	182,682	182,682	201,127	201,127
903469	Manuel T Freitas PRP	4/30/2021	53,809	53,809	59,242	59,242
903471	400F Smith Ranch Rd-SR Facility	3/31/2021	8,066	8,066	8,880	8,880
903472	1201 Fifth Ave. (FL-09517)	3/31/2021	0	0	0	0
903473	Scenic Avenue Tank Solar Array	1/31/2022	0	0	0	0
903482	Replace failed PLC Module Power Supplies	6/30/2021	0	0	0	0
903483	Replace failed SCADA radios	5/31/2021	0	0	0	0
903484	Replace failed RTU parts	5/31/2021	0	0	0	0
903485	San Geronimo Treatment Plant Roof Rehab	5/31/2021	17,331	17,331	19,080	19,080
903486	San Geronimo Treatment Plant Roof Rehab	10/31/2023	762	762	762	762
903487	FFIP Treehaven PRP	4/30/2021	0	0	0	0
903488	FFIP Treehaven PRP	8/31/2021	0	0	0	0
903489	1 Lincoln Park (FL-09521)	4/30/2021	0	0	0	0

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Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
903494	1530 & 1534 5th Ave - Marin Academy	5/31/2021	0	0	0	0
903495	190 Mill St., (FL-09523)	5/31/2021	0	0	0	0
903496	East Bay Intertie Project	5/31/2021	3,550,935	3,550,935	3,909,468	3,909,468
903497	East Bay Intertie Project	9/30/2021	27,032	27,032	29,762	29,762
903499	BTTP Chemical Feed Pumps	6/30/2021	88,185	88,185	97,089	97,089
903500	SGTP Chemical Feed Pumps	6/30/2021	62,492	62,492	68,802	68,802
903501	SGTP Chemical Feed Pumps	5/31/2021	183,627	183,627	202,167	202,167
903504	420 Coloma St., (FL-09524)	6/30/2021	10,320	10,320	11,361	11,361
903505	35 San Anselmo Ave., (FL-09525)	6/30/2021	11,108	11,108	12,229	12,229
903507	Armory Drive Recycled Hydrant Pipe	5/31/2021	0	0	0	0
903510	Dell & ReDesign VxRail Hyperconvergence	6/30/2021	733,874	733,874	807,972	807,972
903511	San Geronimo Creek Crossing PRP	6/30/2021	55,097	55,097	60,660	60,660
903512	San Geronimo Creek Crossing PRP	4/30/2022	22,185	22,185	22,784	22,784
903514	Pine Mountain Tunnel Replacement	6/30/2021	1,651,564	1,651,564	1,818,320	1,818,320
903515	Pine Mountain Tunnel Replacement	8/31/2021	4,159,623	4,159,623	4,579,614	4,579,614
903519	FY2022 Renewal of Fireline Laterals	6/30/2021	0	0	0	0
903521	FY22 Renewal of Service Laterals	7/31/2021	0	0	0	0
903522	FY22 New Service Installation	7/31/2021	558,364	558,364	614,741	614,741
903523	FY22 Hydrant Body Upgrades	11/30/2021	2,873	2,873	3,163	3,163
903524	FY22 Fireline Retrofits	8/31/2021	20,371	20,371	22,428	22,428
903525	Ignacio Chemical Diffuser Sump Pump	12/31/2021	0	0	0	0
903530	FY22 Domestic Meter Change Program	7/31/2021	0	0	0	0
903532	BTTP Ammonia Tank Replacement #2	10/31/2021	164,133	164,133	180,705	180,705
903533	IGTP Ammonia Tank Replacement	3/31/2023	3,018	3,018	3,018	3,018
903534	IGTP Ammonia Tank Replacement	10/31/2021	52,936	52,936	58,280	58,280
903538	Fire Road Pump Station Generator	8/31/2021	27,505	27,505	30,282	30,282
903540	Fuels Management-BFFIP	9/30/2021	1,081,192	1,081,192	1,190,358	1,190,358
903541	Talus Reserve - Erin Dr-Pipeline	1/31/2022	69	69	70	70
903542	Talus Reserve - Erin Dr-Hydrant	12/31/2022	1,381	1,381	1,418	1,418
903543	Talus Reserve - Erin Dr-Service	9/30/2022	0	0	0	0
903544	45 Ross Ave.	7/31/2021	0	0	0	0
903545	1628 5th Ave	8/31/2021	0	0	0	0
903546	Courtright System Improvement	8/31/2021	0	0	0	0
903547	Courtright System Improvement	7/31/2022	0	0	0	0
903548	Phoenix Transfer Pump Station Upgrade	8/31/2021	683,473	683,473	752,483	752,483
903549	Phoenix Transfer Pump Station Upgrade	8/31/2021	68,325	68,325	75,224	75,224
903550	12 & 26 Kings Wy	9/30/2021	0	0	0	0
903551	Fairfax Grade Flow Meter	9/30/2021	0	0	0	0
903552	Bolinas Road Meter Replacement	9/30/2021	0	0	0	0
903553	San Quentin Pump 1 Flow Meter	6/30/2022	0	0	0	0
903556	Coastal Conservancy Grant-Grant Funding	9/30/2021	888,609	888,609	978,330	978,330
903557	1 Muir Woods Rd.	8/31/2021	0	0	0	0
903560	Phoenix Hydraulic Actuator Replacement	10/31/2021	2,699	2,699	2,972	2,972
903562	Peacock Gap Recycled Water Transmission	9/30/2021	441,205	441,205	485,753	485,753
903563	Peacock Gap Recycled Water Transmission	11/30/2021	583	583	642	642
903569	Customer Service Carpet Replacement	2/28/2022	3,022	3,022	3,104	3,104
903570	SGTP Clarifier 2 pump suction line	4/30/2022	16,369	16,369	16,811	16,811
903571	Automatic Transfer Switch-Yard	4/30/2022	5,823	5,823	5,981	5,981
903575	FFIP Rock Ridge PRP	11/30/2021	121,421	121,421	133,681	133,681
903576	FFIP Rock Ridge PRP	1/31/2022	32,506	32,506	33,383	33,383
903578	FFIP Glenwood Transmission PRP	11/30/2021	253,806	253,806	279,433	279,433
903579	FFIP Glenwood Transmission PRP	1/31/2022	26,964	26,964	27,692	27,692
903581	SCADA Radio Room, Uninterruptable Power	2/28/2022	14,220	14,220	14,604	14,604
903582	350 Merrydale Rd-San Rafael-CEQA	5/31/2022	3,553	3,553	3,649	3,649
903584	Watershed Trail Maintenance	4/30/2022	50,000	50,000	51,350	51,350
903585	Transmission System Improvement	11/30/2021	37,511	37,511	41,298	41,298
903586	Transmission System Improvement	12/31/2021	37,082	37,082	40,827	40,827

Appendix B - Table 12, Asset Class 9001 Construction in Progress **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
903588	514 4th St (FL-09529)	12/31/2021	11,373	11,373	12,522	12,522
903590	Pelican Yard Base Rock Storage Canopy	3/31/2022	49,944	49,944	51,293	51,293
903591	System-Wide AMI	12/31/2021	142,698	142,698	157,106	157,106
903592	System-Wide AMI	12/31/2021	239	239	263	263
903593	150 Third St. - Valve Installation	1/31/2022	1,580	1,580	1,623	1,623
903594	Santa Margarita Tank Altitude Valve	12/31/2021	0	0	0	0
903595	Santa Margarita Tank Altitude Valve	1/31/2022	0	0	0	0
903597	FY22 Cathodic RMP	6/30/2022	1,334	1,334	1,370	1,370
903600	Meadow Way Bridge PRP	1/31/2022	32,808	32,808	33,694	33,694
903606	Sky Oaks Road Retaining Wall Replacement	3/31/2022	0	0	0	0
903607	Sky Oaks Road Retaining Wall Replacement	3/31/2022	0	0	0	0
903608	Pine Mt Tunnel Bridge Retaining Wall	3/31/2022	23,628	23,628	24,266	24,266
903609	Pine Mt Tunnel Bridge Retaining Wall	6/30/2022	204	204	209	209
903611	FFIP Redwood Drive PRP	3/31/2022	157,519	157,519	161,772	161,772
903612	FFIP Redwood Drive PRP	5/31/2022	1,152,349	1,152,349	1,183,465	1,183,465
903613	Bayside Acres Rectifier Anode Replacemen	6/30/2022	223	223	229	229
903614	Bayside Acres Rectifier Anode Replacemen	4/30/2022	4,926	4,926	5,059	5,059
903619	Kastania Pump Station Rehab Phase II	4/30/2022	332,533	332,533	341,512	341,512
903620	Kastania Pump Station Rehab Phase II	6/30/2022	29,182	29,182	29,970	29,970
903621	800 Upper Rd., (FL-09532)	4/30/2022	0	0	0	0
903622	3000 Kerner Blvd., (FL-09533)	4/30/2022	18,306	18,306	18,801	18,801
903623	999 Third St	5/31/2022	55,268	55,268	56,760	56,760
903624	Talus Reserve - Erin Dr-Recycled	11/30/2022	0	0	0	0
903626	1569 4th St., (FL-09538)	5/31/2022	0	0	0	0
903627	17 Paul Dr (FL-09539)	5/31/2022	2,311	2,311	2,373	2,373
903628	325 Pine St. (FL-09540)	5/31/2022	0	0	0	0
903630	931 Bolinas Rd - Test Station C0333 CP	5/31/2023	1,031	1,031	1,031	1,031
903631	300 Smith Ranch Rd - SR LGVSD Facility	6/30/2022	44,839	44,839	46,050	46,050
903637	955 Pt San Pedro Rd., (FL-09549)	6/30/2022	0	0	0	0
903639	Crescent Lane PRP	6/30/2022	0	0	0	0
903641	FY 2023 Renewal of Fireline Laterals	12/31/2022	86,642	86,642	88,982	88,982
903643	FY23 Renewal of Service Laterals	7/31/2022	669,481	669,481	687,558	687,558
903644	FY23 New Service Installation	7/31/2022	537,638	537,638	552,155	552,155
903646	FY23 Fireline Retrofits	7/31/2022	7,536	7,536	7,739	7,739
903647	Santa Margarita Pump Repair	9/30/2022	9,810	9,810	10,075	10,075
903648	Greenbrae PS #1	9/30/2022	23,638	23,638	24,276	24,276
903649	Hill Haven Pump Repair	9/30/2022	5,483	5,483	5,631	5,631
903650	Quail Hill Pump #2 VFD	11/30/2022	10,667	10,667	10,955	10,955
903652	FY23 Domestic Meter Change Program	7/31/2022	202,373	202,373	207,838	207,838
903653	46 Castro Ave (FL-09550)	7/31/2022	0	0	0	0
903657	Fuels Management-BFFIP	8/31/2022	1,226,050	1,226,050	1,259,156	1,259,156
903658	199 Porteous Ave - (HY-09551)	8/31/2022	16,623	16,623	17,072	17,072
903659	199 Porteous Ave - (HY-09551)	9/30/2022	3,708	3,708	3,809	3,809
903660	Northgate Mall Redevelopment- WSA	12/31/2022	30,000	30,000	30,810	30,810
903661	885 4th St (FL-09552)	8/31/2022	0	0	0	0
903662	Marin City PRP, Phase I	8/31/2022	241,511	241,511	248,033	248,033
903663	Marin City PRP, Phase I	10/31/2022	50,610	50,610	51,977	51,977
903664	11 Professional Center Pkwy - (FL-09553)	9/30/2022	0	0	0	0
903665	Taylor Avenue	9/30/2022	0	0	0	0
903666	Bon Tempe Backwash Line	9/30/2022	92,591	92,591	95,091	95,091
903667	Bon Tempe Backwash Line	12/31/2022	166,619	166,619	171,118	171,118
903668	1620 Sir Francis Drake Blvd (FL-09559)	9/30/2022	0	0	0	0
903669	2097 Sir Francis Drake Blvd (FL-09560)	10/31/2022	0	0	0	0
903670	Sir Francis Drake Blvd-Butterfield E PRP	10/31/2022	191,183	191,183	196,345	196,345
903671	Sir Francis Drake Blvd-Butterfield E PRP	10/31/2022	558,537	558,537	573,618	573,618
903672	Lapachet Pump Station Chlorine Analyzer	2/28/2023	4,133	4,133	4,133	4,133
903673	Lapachet Pump Station Chlorine Analyzer	2/28/2023	24,518	24,518	24,518	24,518

Appendix B - Table 12, Asset Class 9001 Construction in Progress **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
903674	Mann Pump Station Meter	11/30/2022	9,955	9,955	10,224	10,224
903679	18 Olive Ave Hydrant Check Valve	10/31/2022	0	0	0	0
903680	18 Olive Ave Hydrant Check Valve	12/31/2022	0	0	0	0
903681	Circuit breaker & Trip-Nicasio Aerator	11/30/2022	3,019	3,019	3,100	3,100
903682	Flooring for SGTP Offices	6/30/2023	31,438	31,438	31,438	31,438
903687	Cibrian Pump #1 Repair	11/30/2022	9,716	9,716	9,978	9,978
903688	Edgewood Ave Service Relocation	11/30/2022	24,178	24,178	24,831	24,831
903689	Edgewood Ave Service Relocation	2/28/2023	82,771	82,771	82,771	82,771
903692	Fairfax Manor 2nd PS	3/31/2023	10,860	10,860	10,860	10,860
903693	300 Tamalpais Dr.,Corte Madera Town Hall	12/31/2022	17,284	17,284	17,750	17,750
903697	3825 Paradise Dr, TB-CEQA	4/30/2023	7,458	7,458	7,458	7,458
903698	Data Center Solar UPS and Inverter	3/31/2023	81,730	81,730	81,730	81,730
903699	MERA Facility-MV Tank (Lease#80)	2/28/2023	23,819	23,819	23,819	23,819
903700	Worn Spring Road Slide Repair	1/31/2023	0	0	0	0
903701	Worn Spring Road Slide Repair	1/31/2023	0	0	0	0
903702	Kastania PS-Floor Drain-Design	2/28/2023	33,094	33,094	33,094	33,094
903706	6 Princess St (FL-09564)	3/31/2023	1,465	1,465	1,465	1,465
903707	Tiburon PRP	3/31/2023	153,603	153,603	153,603	153,603
903708	Tiburon PRP	10/31/2023	55,842	55,842	55,842	55,842
903709	PLC Replacement Wire Sets	6/30/2023	6,994	6,994	6,994	6,994
903710	RTU/Battery Cabinets	4/30/2023	10,100	10,100	10,100	10,100
903711	SCADA GPS Clock Replacement	4/30/2023	3,647	3,647	3,647	3,647
903712	Cell Modem Replacement	5/31/2023	14,668	14,668	14,668	14,668
903713	VXI Power Supplies	6/30/2024	6,484	6,484	6,484	6,484
903714	Granada Drive PRP	3/31/2023	180,102	180,102	180,102	180,102
903715	Granada Drive PRP	4/30/2023	930,394	930,394	930,394	930,394
903716	800 Mission Ave (FL-09565)	4/30/2023	35,009	35,009	35,009	35,009
903717	Loma Alta Landslide Repair	4/30/2023	60,779	60,779	60,779	60,779
903718	Loma Alta Landslide Repair	5/31/2023	21,504	21,504	21,504	21,504
903719	North Marin Line Valve Isolation	5/31/2023	0	0	0	0
903720	North Marin Line Valve Isolation	7/31/2023	0	0	0	0
903721	71 Throckmorton Ave., (FL-09566)	5/31/2023	0	0	0	0
903722	1380 Lincoln Ave-SR (FL-09567)	5/31/2023	0	0	0	0
903723	36 Tiburon Blvd., Mill Valley (FL-09568)	6/30/2023	0	0	0	0
903724	1044 Sir Francis Drake Blvd., (FL-09569)	6/30/2023	10,148	10,148	10,148	10,148
903727	FY24 New Service Installation	7/31/2023	461,487	461,487	461,487	461,487
903728	FY24 Hydrant Body Upgrades	9/30/2023	5,329	5,329	5,329	5,329
903729	FY24 Fireline Retrofits	8/31/2023	14,694	14,694	14,694	14,694
903731	FY24 Renewal of Fireline Laterals	2/29/2024	91,016	91,016	91,016	91,016
903733	FY24 Renewal of Service Laterals	7/31/2023	422,694	422,694	422,694	422,694
903735	FY24 Service Meter Program	8/31/2023	152,868	152,868	152,868	152,868
903736	FY24-BBTTP WWRP #1	10/31/2023	8,510	8,510	8,510	8,510
903737	FY24 Channing Pump #1 Repair	12/31/2023	9,043	9,043	9,043	9,043
903738	FY24 Lag Booster#1-5 Surge Suppressor	4/30/2024	4,634	4,634	4,634	4,634
903739	FY24 Tam Woods 2nd Pump #1	3/31/2024	8,424	8,424	8,424	8,424
903742	10 E Crescent Rd-SR (FL-09570)	7/31/2023	4,339	4,339	4,339	4,339
903743	Hind PS flow meter	10/31/2023	25,277	25,277	25,277	25,277
903744	ProLink III software for flow meters	10/31/2023	5,346	5,346	5,346	5,346
903745	Forbes Reservoir flow meter	3/31/2024	9,187	9,187	9,187	9,187
903746	Wolfback Ridge PS Flowmeter	5/31/2024	5,235	5,235	5,235	5,235
903747	Tam Woods 2nd Lift PS, Pump #1 FM	6/30/2024	3,702	3,702	3,702	3,702
903748	Canal District PRP	2/29/2024	36,485	36,485	36,485	36,485
903749	Canal District PRP	4/30/2024	1,417	1,417	1,417	1,417
903751	Fuels Management-BFFIP	9/30/2023	1,995,055	1,995,055	1,995,055	1,995,055
903752	Stream Release Automation	3/31/2024	6,069	6,069	6,069	6,069
903753	Stream Release Automation	8/31/2023	36,560	36,560	36,560	36,560
903754	SWSA Roadmap Pre-Design	8/31/2023	249,798	249,798	249,798	249,798

Appendix B - Table 12, Asset Class 9001 Construction in Progress **MMWD Capacity Charge Study**

Asset Number	Asset Description	Capitalized Date	Acquisition Cost	Book Value	Replacement Value	Depreciated Replacement Value
903755	SWSA Roadmap Pre-Design	9/30/2023	5,250	5,250	5,250	5,250
903756	5764 Paradise Dr., Corte Madera	8/31/2023	1,375	1,375	1,375	1,375
903757	Alpine Barge, Pumps and Actuators	8/31/2023	64,081	64,081	64,081	64,081
903758	Alpine Barge, Pumps and Actuators	9/30/2023	112,925	112,925	112,925	112,925
903760	SCADA Hardware - Radio Replacements	6/30/2023	96,920	96,920	96,920	96,920
903761	3301 Kerner Blvd-San Rafael	8/31/2023	3,808	3,808	3,808	3,808
903762	Replace Admin Building Solar Inverter	8/31/2023	7,093	7,093	7,093	7,093
903763	706 Meadowsweet Dr., Corte Madera	1/31/2024	2,346	2,346	2,346	2,346
903765	Elinor Ave Electrical Service Replacemnt	7/31/2023	35,942	35,942	35,942	35,942
903766	170 N San Pedro Rd., San Rafael	9/30/2023	37,442	37,442	37,442	37,442
903767	1048 Redwood Hwy., Frontage Rd-MV	9/30/2023	2,958	2,958	2,958	2,958
903768	Marin-Sonoma Regional Conveyance	11/30/2023	404,646	404,646	404,646	404,646
903769	Marin-Sonoma Regional Conveyance	11/30/2023	190	190	190	190
903771	PLC Parts/Software Upgrade	10/31/2023	41,637	41,637	41,637	41,637
903772	528 4th St., (FL-09578)	11/30/2023	0	0	0	0
903773	Spring Lane Tanks Site	10/31/2023	0	0	0	0
903775	Point Tiburon Rectifier Replacement	10/31/2023	0	0	0	0
903776	FY24-2/Syk Oaks EV Charging Stations	8/31/2023	11,070	11,070	11,070	11,070
903777	Window Coverings for San Geronimo	2/29/2024	9,821	9,821	9,821	9,821
903781	2 Bellagio Rd-RS (FL-09579)	11/30/2023	2,076	2,076	2,076	2,076
903782	Local Storage Project	12/31/2023	529,963	529,963	529,963	529,963
903784	1 Shady Ln, Ross	12/31/2023	6,527	6,527	6,527	6,527
903785	San Geronimo Clarifier #2 Drawdown Pump	11/30/2023	56,937	56,937	56,937	56,937
903788	Lucas Valley Pump #2 VFD Replacement	2/29/2024	15,164	15,164	15,164	15,164
903789	835 College Ave - Kentfield	12/31/2023	15,790	15,790	15,790	15,790
903790	Veterans Memorial Auditorium Parking Lot	12/31/2023	13,803	13,803	13,803	13,803
903791	Petaluma River Desalination	12/31/2023	83,515	83,515	83,515	83,515
903792	Petaluma River Desalination	6/30/2024	163	163	163	163
903794	IGTP Ammonia Flowmeter	2/29/2024	28,131	28,131	28,131	28,131
903795	326 Mission Ave-San Rafael	4/30/2024	2,372	2,372	2,372	2,372
903796	187 Sacramento Ave-Pipeline	3/31/2024	6,488	6,488	6,488	6,488
903800	Bon Tempe Air Compressor Replacement	4/30/2024	59,347	59,347	59,347	59,347
903801	SGTP-Filter Backwash Valve Replacement	6/30/2024	1,841	1,841	1,841	1,841
903802	SGTP-Filter Backwash Valve Replacement	4/30/2024	124	124	124	124
903803	FFIP Paradise Drive PRP	3/31/2024	23,704	23,704	23,704	23,704
903805	Anode Replacement	4/30/2024	8,799	8,799	8,799	8,799
903806	Anode Replacement	4/30/2024	21,037	21,037	21,037	21,037
903807	San Rafael Anode Well Replacement	4/30/2024	18,838	18,838	18,838	18,838
903808	San Rafael Anode Well Replacement	4/30/2024	2,945	2,945	2,945	2,945
903810	PCR Replacement	6/30/2024	1,382	1,382	1,382	1,382
903811	SCADA Hardware-NXTNET9S TransNEXT Radios	4/30/2024	9,054	9,054	9,054	9,054
903814	Edwards Ave PRP	4/30/2024	5,203	5,203	5,203	5,203
903815	Edwards Ave PRP	4/30/2024	176,221	176,221	176,221	176,221
903816	FFIP Sleepy Hollow PRP	4/30/2024	2,185	2,185	2,185	2,185
903819	West Peak Power Pole Removal	5/31/2024	124,777	124,777	124,777	124,777
903820	2084 Sir Francis Drake Blvd-Fairfax	5/31/2024	1,747	1,747	1,747	1,747
903821	Bon Tempe Spillway Capacity Assessment	6/30/2024	307	307	307	307
903823	Spillway Hydraulic Capacity Assessment	6/30/2024	921	921	921	921
903827	3606 Paradise Dr-Tiburon	5/31/2024	2,158	2,158	2,158	2,158
903828	153 Redwood Rd.-San Anselmo	5/31/2024	4,045	4,045	4,045	4,045
903830	Lagunitas Creek Habitat Project Planning	5/31/2024	12,794	12,794	12,794	12,794
903834	Sky Oaks Ranger Residence Flooring	6/30/2024	28,046	28,046	28,046	28,046
903835	Crescent Ave Flowmeter	6/30/2024	2,411	2,411	2,411	2,411
903850	FY25 Renewal of Service Laterals	6/30/2024	3,834	3,834	3,834	3,834
Totals Asset Class 9001 Construction in Progress			**$54,605,655**	**$54,605,655**	**$59,028,871**	**$59,028,871**

Appendix B - Table 13
MMWD Capacity Charge Study
Cost of Water Rights

Cost of Water Rights	Acquisition Date	Original Cost	Escalated Cost
Sonoma County Water Rights	1996	$2,867,344	$6,490,143
Sonoma County Water Rights	2005	$6,326,257	$10,956,690
Aqueduct Energy Efficiency Project	2015	$3,622,882	$4,918,798
Las Gallinas Valley Sanitary District – Recycled Water Rights	2017	$6,349,595	$8,108,111
Total Cost of Water Rights		**$19,166,078**	**$30,473,742**

MARIN MUNICIPAL WATER DISTRICT
ORDINANCE NO. 469

AN ORDINANCE AMENDING PROVISIONS OF TITLE 11 ENTITLED WATER SERVICE RULES AND REGULATIONS AND TITLE 13 ENTITLED WATER SERVICE CONDITIONS AND WATER CONSERVATION MEASURES OF THE MUNICIPAL WATER DISTRICT CODE RELATED TO CAPACITY CHARGES

BE IT ORDAINED BY THE BOARD OF DIRECTORS OF THE MARIN MUNICIPAL WATER DISTRICT AS FOLLOWS:

SECTION 1. Purpose: The purpose of this Ordinance is to align provisions of the District Code with proposed updates to the District's capacity charges. This includes using industry standard terminology, such as "capacity charges" rather than "connection fees". Additionally, the revisions in the Ordinance reflect that the proposed capacity charges will be based on water meter size, rather than the District's historic practice of assigning water entitlements based on estimated water usage to calculate capacity charges for new and upgraded water service connections.

SECTION 2. Section 11.08.025 of the Marin Municipal Water District Code entitled "Off services and services with minimal or no consumption" is hereby amended to read as follows:

§ 11.08.025. Off services and services with minimal or no consumption.

(a) For any service to be activated for which an application or variance has previously been approved, the applicant must provide the district with a building permit which indicates the proposed use of the service, and such use must be consistent with the use stated on the service application or in the variance approval, or as set forth in the pipeline extension agreement.

(b) Services, the meters to which are being read and billed, that have had minimal or no consumption for two or more years shall be reviewed by staff to ascertain their status. Such services should be put to their intended use or may lose their water service. Such services required to have water budgets, which did not receive water budgets at the time of activation shall be given water budgets prior to the commencement of water use and pay capacity charges, based on water meter size, at that time equal to the difference between the capacity charge originally paid and the capacity charge applicable at the time of use. The term "activation" for purposes of this subsection means connection of the water service to a structure permitted to be occupied under applicable local building codes or application of the water to the purpose for which the service was sought where service was for irrigation purposes.

SECTION 3. Section 11.08.030 of the Marin Municipal Water District Code entitled "Change in character or increase in the amount of water use from existing connection" is hereby amended to read as follows:

§ 11.08.030. Change in character or increase in the amount of water use from existing connection.

All services are granted solely for the specific use and customer type for which the application was made. No substantial change in the character of water use or increase in the amount of water use through an existing service connection, which would require the upgrade of the water meter serving the property, shall be made except by making application therefor to the district. At the time the application is made, the district shall determine, based upon probable peak demand, whether the existing water meter and piping are of adequate size for the new use.

The district will review services at its discretion for substantial changes in character or increase in use:

(1) A substantial change in the character of water use includes but is not limited to, change from one of the following uses to another: single-family residential, multiple residential, commercial, industrial or irrigation;

(2) A substantial increase in the amount of water use is defined as an increase over the current water use for the property that would require the upgrade of the existing water meter serving the property.

The district will permit water consumption to exceed an existing service's water use so long as no building modifications have been made, there has been no expansion of landscape, and water is being used without waste. However, payment for water use in the higher rate tiers will not result in an increase in the service's water budget or be deemed a credit toward capacity charges necessary to purchase a larger water meter size. In the event of the imposition of water rationing, the rationed allocation will be based on the water budget for the service and not on the demonstrated usage level.

SECTION 4. Section 11.08.035 of the Marin Municipal Water District Code entitled "Water budgets" is hereby amended to read as follows:

§ 11.08.035. Water budgets.

The district may assign an annual water budget to all new or existing services. The water budget will be the district's determination of the actual consumption requirement of the service and will be based upon, but is not limited to, consideration of consumption history, estimated annual consumption, site audits, and area averages for similar services.

SECTION 5. Section 11.080.040 of the Marin Municipal Water District Code entitled "Application for new service connection" is hereby retitled and amended to read as follows:

§ 11.08.040. Application for new or upgraded service connection.

Applicants requesting water service which requires the installation of a new service or which substantially changes the character of water use or amount of water use of an existing service, which would require the upgrade of the existing water meter serving the property, shall make written application for a new or upgraded service connection and water budget on a form provided by the district and all blanks thereon shall be filled in or completed. The district

shall, at its sole discretion, determine the appropriate service and meter size required based upon probable peak demand. When the proper size of service and meter for the use applied for has been determined, and the installation made, the district shall have fulfilled its obligation insofar as the installation is concerned.

SECTION 6. Section 11.08.160 of the Marin Municipal Water District Code entitled "Charges for installation for new service connections" is hereby amended to read as follows:

§ 11.08.160. Charges for installation for new service connections.

Upon approval of an application for a new service connection and payment by the applicant of the service installation charge and capacity charges set forth in Chapter 11.56, the district will make all necessary installations. All deposits made for such charges and fees shall be credited to the parcel of land to be served, shall run with said parcel of land, and are refundable only to the owner of record of said parcel or his designee.

SECTION 7. Section 11.08.170 of the Marin Municipal Water District Code entitled "Applications and services run with the land" is hereby amended to read as follows:

§ 11.08.170. Applications and services run with the land.
Each application and each water service approved pursuant thereto runs with the parcel of land for which it is applied and/or approved and may not be transferred to any other parcel of land.

SECTION 8. Section 11.08.180 of the Marin Municipal Water District Code entitled "Assessment of water entitlements" is hereby retitled and amended to read as follows:

§ 11.08.180. Water Budgets for Single-Family Zoned Parcels with Potable Residential Irrigation Services.

(1) Subject to the exclusions set forth in paragraph (5) of this section, a property zoned as single-family residential, supplied by both a potable residential service connection and a potable irrigation service connection that is used for private enjoyment and is not considered to provide a public benefit (as determined by the District) shall be assigned a combined maximum water budget and shall receive metered service subject to, on a cumulative basis, the tiered water rate schedule applicable to a single-family residential consumer.

(2) Subject to the exclusions set forth in paragraph (5) of this section, a property with a single-family dwelling and a second living unit, supplied by an individual potable service connection or separate services in addition to a potable irrigation service connection, shall be assigned a combined maximum potable water budget and shall receive metered service subject to, on a cumulative basis, the tiered water rate schedule applicable to a single-family residential consumer with two legal living units.

(3) Subject to the exclusions set forth in paragraph (5) of this section, a potable irrigation service serving private landscaping located on an otherwise undeveloped parcel zoned

single-family residential shall retain its existing budget, or be assigned a water budget and tiered water rate schedule applicable to a single-family residential consumer, whichever is less.

(4) Section 11.08.180(3) does not apply to residential potable irrigation services supplying water for landscaping that provides a public benefit and exists as a requirement of another public agency.

(5) Where there is an existing potable irrigation service supplying a property zoned for either (i) a single-family residential use, or (ii) for a single-family use with a second dwelling unit, such service shall continue to maintain its existing water budget and be subject to the tiered water rate schedule applicable to each such service, until such time as the property is sold or transferred. Transfer of the property to a spouse, living trust where there is no change in beneficial ownership, or domestic partner of the property owner(s) shall not constitute a transfer of the property within the meaning of this section.

a. Definitions:

"Transfer to a spouse or domestic partner" is defined as:

(aa) Transfers to a trustee for the beneficial use of a spouse or domestic partner, or the surviving spouse or domestic partner of a deceased transferor, or by a trustee of such a trust to the spouse or domestic partner of the trustor;

(bb) Transfers which take effect upon the death of a spouse or domestic partner;

(cc) Transfers to a spouse or domestic partner or former spouse or former domestic partner in connection with a property settlement agreement or decree of dissolution of a marriage or legal separation, or domestic partnership; or

(dd) The creation, transfer, or termination, solely between spouses or domestic partners, of any co-owner's interest.

(ee) The distribution of a legal entity's property to a spouse or domestic partner or former spouse or former domestic partner in exchange for the interest of such spouse in the legal entity in connection with a property settlement agreement or a decree of dissolution of a marriage or legal separation or domestic partnership.

(ff) Domestic partner is defined herein to be consistent with California Family Code Section 297.

"Transfer to a living trust" is defined as: Any transfer by the trustor, or by the trustor's spouse, or by both, into a trust for so long as (aa) the transferor is the present beneficiary of the trust, or (bb) the trust is revocable; or any transfer by a trustee of such a trust described in either clause (aa) or (bb) back to the trustor; or, any creation or termination of a trust in which the trustor retains the reversion and in which the interest of others does not exceed 12 years duration.

(6) All customers with potable irrigation services, as described in paragraphs (1), (2), and (3) of this section, must comply with District water efficiency standards which may by amended from time to time. Watering by hand shall be considered an acceptable form of irrigation for such existing landscapes. Any new landscaping must comply with District requirements in effect at the time of installation and must be approved by the District prior to installation.

(7) The District reserves the right to allocate water, including potable water for irrigation services, as necessary for the beneficial use of its consumers. Under state law, the District has the discretion at all times, especially in times of shortage or water shortage emergencies to allocate all of the water supply as it deems necessary and appropriate. The water provided to those consumers with potable irrigation services may be reduced or eliminated at any time, when, in the discretion of the Board, it is necessary for the public health and safety to do so. Those times include, but are not limited to times of shortage or drought.

(8) No new potable residential irrigation service connections for single-family zoned parcels shall be permitted by the District.

SECTION 9. Section 11.24.050 of the Marin Municipal Water District Code entitled "Billing baselines and baseline adjustments" is hereby retitled and amended to read as follows:

§ 11.24.050. Billing baselines and baseline adjustments for services assigned water budgets.

(a) For the purpose of billing, a service's water budget will be divided between six bimonthly billing periods. If a water budget is assigned to a service, the six bimonthly baseline allotments will be determined by the district at the time of water budget assignment. For services assigned water budgets that are billed on a monthly basis, twelve monthly baseline allotments will be determined by the district at the time of water budget assignment.

(b) The consumer shall have the right to adjust the baseline once each calendar year, as long as the new baseline does not exceed the annual water budget for the service, without paying a fee to the district. The district will charge seventy-five dollars for a second baseline adjustment requested by the consumer within one calendar year. For a third baseline adjustment requested by the consumer within one calendar year, the district will charge fifty dollars per hour of staff time. The consumer shall be allowed a maximum of three baseline adjustments within any two calendar year period.

(c) Baseline adjustments shall apply to only current and future bills. For the adjustment to apply to the current bill, the consumer must submit the request for the adjustment to the district within the first thirty days of said billing period. No baseline adjustments will be used to retroactively adjust previous bills.

SECTION 10. Section 11.32.120 of the Marin Municipal Water District Code entitled "Use of recycled water service required" is hereby retitled and amended to read as follows:

Section 11.32.120 Use of Recycled Water Service Required.

All existing customers of the district and any new applicants for water service whose properties may be served by recycled water provided by the district shall connect their property to such recycled water service for those uses for which the use of potable domestic water would be deemed a waste or unreasonable use of water as specified in the California Water Code and the state and local regulations promulgated pursuant thereto. Failure of an existing district customer to accept service of recycled water when it is made available by the district where use of potable water would otherwise be deemed a waste or unreasonable use of water as specified above shall be grounds for termination of the customer's potable water service. Failure of a customer for recycled water to comply with the conditions specified for its use set out in this code and in the application for water service shall be grounds for termination of recycled water service and curtailment and/or termination of any potable water service provided to the extent the customer attempts to apply potable water to the uses specified for recycled water. No capacity charge shall be assessed where recycled water replaces potable water to which a customer already paid capacity charges; however, the customer shall be liable for the cost of connecting his plumbing at the point of connection as determined by the district and any costs of making his private plumbing and irrigation system conform to state health standards.

SECTION 11. Section 11.36.080 of the Marin Municipal Water District Code entitled "Deadline to Activate Service" is hereby amended to read as follows:

11.36.080 Deadline to Activate Service.

Services installed under pipeline extension agreements approved by the district shall have eight years from the date of completion of facilities installed pursuant to said agreements to be put to the use for which application was made. If activation is not achieved in the time specified, the district will cause the service to be abandoned and will refund the capacity charges, less the cost of abandoning the service, to the owner of record or his designee.

SECTION 12. Section 11.40.020 of the Marin Municipal Water District Code entitled "Extension of Gravity System" is hereby amended to read as follows:

11.40.020 Extension of Existing Gravity System.

Applicants for water main extensions to areas which, in the opinion of the district, can be served by extending the existing gravity system of the district shall:

(1) Pay to the district the full cost of furnishing and installing all necessary pipe, valves, fittings, service connections and appurtenant facilities including the cost of inspection during installation as well as all related district labor;

(2) Where the district does not have gravity storage capable of accommodating the storage requirements for the areas to be served, pay to the district the full cost of furnishing and installing all necessary storage facilities, including road access thereto, of such size as to provide required storage capacity equal to twice the estimated average summer day consumption of the area to be served. Payment of the full cost of the storage facilities shall entitle an applicant to a credit of $0.566 per gallon of such storage capacity against the capacity charge provided for in subsection (b) of Section 11.56.040;

(3) Furnish at no cost to the district all property, easements and rights-of-way reasonably required for tank sites, pump sites, pipelines and access roads;

(4) Pay to the district the full cost of, or furnish at no cost to the district, the facilities described in Section 11.40.050, if applicable.

SECTION 13. Chapter 11.56 of the Marin Municipal Water District Code entitled "Charges for Service Installations and Connection Fees" is hereby retitled to read as follows:

Chapter 11.56 Charges for Service Installations and Capacity Charges.

SECTION 14. Section 11.56.040 of the Marin Municipal Water District Code entitled "Connection Fees" is retitled and hereby amended to read as follows:

§ 11.56.040. Capacity Charges.

(a) In addition to any charges or fees provided for in this chapter, or otherwise required under this code, a capacity charge is established for the privilege of using the district's potable and recycled water systems.

(b) Except as provided in subsections (c), (d), (e), (f) and (h) of this section, the capacity charges shall be applied to each water meter size required to be purchased by the applicant, less any credits for provision of storage facilities pursuant to Section 11.40.020(2). The Board of Directors shall, in a Board resolution, set forth the method for determining and the amount of the water capacity charge.

(c) In case of the enlargement of any existing water service connection (i.e., installation of a larger water meter) or change in character of water use of any existing service, the capacity charge shall be levied only upon the difference between the capacity charges for the existing water meter size and the upgraded water meter size using the capacity charge schedule in effect at the time of the water service upgrade.

(d) RESERVED

(e) No capacity charges shall be charged for private fire taps.

(f) The capacity charges established for the privilege of using the district's recycled water system shall be for reimbursement of development of the recycled water supply and installation of the recycled water distribution system.

(g) The budgeted annual water consumption for nonresidential and dedicated irrigation services is defined as the annual water budget of water per water service based on the actual needs of the service, and the use of water without waste.

(h) A new or separate water service shall not be required and no capacity charges shall be charged for one junior accessory dwelling unit (JADU) or one accessory dwelling unit (ADU) per lot with a proposed or existing single-family dwelling if the JADU meets the requirements set forth in subsection (1) below or the ADU meets the requirements set forth in subsections (2) or (3) below. However, this section shall not apply to a JADU or an ADU that is constructed with a new single-family home.

(1) JADU Contained Within A Single-Family Residence. A JADU is a unit that is no more than 500 square feet in size and contained entirely within a single-family residence. The JADU may include separate sanitation facilities, or may share sanitation facilities with the existing structure. The JADU shall have a separate entrance from the main entrance to the proposed or existing residence and contain an efficiency kitchen, which includes a cooking facility with appliances and a food preparation counter and storage cabinets that are of reasonable size in relation to the size of the JADU. Every property with a JADU shall be occupied by the owner of the home, unless the owner is a government agency, land trust, or housing organization, and be legally permitted for use as a JADU with the local jurisdiction overseeing zoning.

(2) ADU Contained Within A Single-Family Residence or An Existing Accessory Structure. This category of ADU is an attached or a detached residential dwelling unit that provides complete independent living facilities for one or more persons and is located on a lot with a proposed or existing primary residence. It shall include permanent provisions for living, sleeping, eating, cooking, and sanitation on the same parcel as the single-family dwelling is or will be situated. The ADU shall be within the proposed space of a single-family dwelling or existing space of a single-family dwelling or accessory structure and may include an expansion of not more than 150 square feet beyond the same physical dimensions of the existing accessory structure for the purposes of ingress and egress. The ADU shall have separate exterior access from the proposed or existing single-family dwelling. The total area of floor space for an attached ADU shall not exceed 50% of the existing primary dwelling, and the total floor area for an ADU contained within the space of an existing accessory structure shall not exceed 1,200 square feet.

(3) Newly Constructed Attached or Detached ADU. This category of ADU is a newly constructed attached ADU, which expands the space of an existing single-family dwelling more than 150 square feet or a newly constructed detached ADU that provides complete independent living facilities for one or more persons and is located on a lot with an existing primary residence that has an existing water service. The ADU shall include permanent provisions for living, sleeping, eating, cooking, and sanitation on the same parcel as the existing single-family dwelling is situated.

The ADU shall have separate exterior access from the existing single-family dwelling. The total area of floor space for an attached ADU shall not exceed 50% of the existing primary dwelling, and the total floor area for a detached ADU shall not exceed 1,200 square feet. Additionally, all newly constructed, attached or detached ADUs described in this section shall be subject to the following conditions:

(A) Either the ADU or the existing single-family dwelling shall be occupied by the owner of the property upon which the existing single-family residential unit and ADU are located.

(B) Both the existing single-family residential dwelling and the ADU shall comply, at minimum, with the water efficiency standards set forth in Section 13.02.021.

(C) The applicant shall be a current District customer who has continuously maintained water service at the parcel, on which the ADU will be constructed, for a period of at least one year immediately preceding submission of an application for the waivers set forth in this section.

(4) For all JADUs and ADUs required to pay capacity charges, those charges shall be proportionate to the burden of the proposed JADU or ADU unit, based upon the number of its drainage fixture unit (DFU) values, as defined in the Uniform Plumbing Code adopted and published by the International Association of Plumbing and Mechanical Officials, upon the water system.

SECTION 15. Section 11.56.050 of the Marin Municipal Water District Code entitled "Refund of fees and deposits" is hereby amended to read as follows:

§ 11.56.050. Refund of fees and deposits.

The fees and deposits provided for in Sections 11.56.010, 11.56.020 and 11.56.040 shall be credited to the parcel to be served, run with said parcel of land, and are refundable, where a refund is appropriate, only to the owner of record of such parcel or designee. However, any capacity charge payment made for a water meter size increase above the original meter size purchased under Section 11.56.040, by a party other than the owner of record, shall be refundable to that party or designee, provided the service application reflects that payment was made by the party requesting the refund.

SECTION 16. Section 13.03.020 of the Marin Municipal Water District Code entitled "Basis for determination of water budget" is hereby amended to read as follows:

§ 13.03.020. Basis for determination of water budget.

The annual water budget for each existing nonresidential and dedicated irrigation water service is determined by the district based upon the amount of the estimated consumption or designated annual consumption as detailed in Section 11.08.035.

SECTION 17. Section 13.03.030 of the Marin Municipal Water District Code entitled "Water budgets when required" is hereby amended to read as follows:

§ 13.03.030. Water budgets when required.

Non-residential and dedicated irrigation water services must conform to the annual water budget calculated by the district as follows:

(1) New Services. Immediately upon connection to the District water system.

(2) Existing Services. As a condition of receipt of a variance or as part of the calculation of allowable use pursuant to Section 13.02.040, or upon receipt of notification from district that an annual water budget for the water service has been prepared by district staff.

SECTION 18. Section 13.03.031 of the Marin Municipal Water District Code entitled "Increasing a service's water budget" is hereby amended to read as follows:

§ 13.03.031. Increasing a service's water budget.

Requests to increase a non-residential or dedicated irrigation service's water budget shall meet the applicable water efficiency standards in place at the time of the request. Upon determining the service is in compliance with all District codes, rules and regulations and meets the requirements for both indoor and outdoor water use, based on the current water efficiency standards established by the District, the service may be eligible to increase the annual water budget as calculated by staff. Requests to increase a service's water budget may be made once per calendar year.

SECTION 19. Severability: If any section, subsection, sentence, clause, phrase, portion or part of this ordinance is for any reason held to be invalid or unconstitutional by any court of competent jurisdiction, such section shall not affect the validity of the remaining portions of this code. The Board of Directors hereby declares that it would have adopted this ordinance and each section, subsection, sentence, clause, phrase, part or portion thereof, irrespective of the fact that any one or more sections subsections, sentences, clauses, phrases, parts or portions be declared invalid or unconstitutional and, to that end, declares the provisions of this ordinance severable from one another.

SECTION 20. Effective Date: This ordinance shall become effective on July 1, 2025.

PASSED AND ADOPTED this 18th day of March 2025, by the following vote of the Board of Directors:

AYES:

NOES:

ABSENT:

Matt Samson
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary

Attachment 3

MARIN MUNICIPAL WATER DISTRICT

RESOLUTION NO.

RESOLUTION OF THE BOARD OF DIRECTORS OF THE MARIN MUNICIPAL WATER DISTRICT UPDATING THE DISTRICT'S WATER CAPACITY CHARGES

WHEREAS, pursuant to California Government Code section 66013, the Marin Municipal Water District (the "District") is authorized to impose water capacity charges for public facilities in existence at the time the charge is imposed or for new facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the District; and

WHEREAS, the District Board of Directors last updated the District's water capacity charges by adopting Ordinance No. 440 and Resolution No. 8512 on September 25, 2018; and

WHEREAS, the existing water capacity charges for single family residences and duplexes are based on the annual water demand of approximately 300 zones or areas, multi-family charges are based on an annual water demand factor of 0.14 AF per living unit, and other customer classes are assigned water entitlements based upon landscape plan reviews or water use estimates for the type and kind of business or facility; and

WHEREAS, the District's capacity charges are imposed on any property requesting a new, additional, or larger connection to the District's water system (for the purposes of this Resolution, each is referred to herein as a "new water service connection"); and

WHEREAS, following a review of the District's water system, capital improvement plan, and the nature and type of proposed new development within the District (which is predominantly infill and increased densification), it was determined the District's water capacity charge should be based on the system buy-in methodology in accordance with Government Code Section 66013(f), as the District's water system is substantively built out and has existing capacity to support projected growth through 2045 as detailed in the District's Updated 2020 Urban Water Management Plan, which approach would alleviate the requirement for the District to maintain a more detailed accounting of capacity charges received by the District; and

WHEREAS, an analysis of the capacity charges needed to serve new water service connections was prepared by Bartle Wells Associates, dated February 28, 2025 and entitled "Marin Municipal Water District 2025 Capacity Charge Study" ("Study"), a copy of which is on file in the Office of the Board Secretary located at 220 Nellen Avenue, Corte Madera, CA 94925 and available on the District website at

(https://www.marinwater.org/2025CapacityChargeStudy), and is incorporated by this reference; and

WHEREAS, the capacity charges contained in the Study utilize Meter Equivalent Units (MEUs), or hydraulic capacity ratios, established by the American Water Works Association, to proportionally allocate the cost of the District's water system and capacity rather than utilizing the complex formulas used to calculate the District's existing capacity charges (currently referred to as connection fees); and

WHEREAS, the use of MEUs was determined to be a reasonable and equitable methodology to appropriately allocate capacity charge costs because the District is required to meet the capacity requirements of all customers' peak demands, which is determined by the maximum flow relative to the service meter size, regardless of their actual water use, and this methodology ensures that each customer class is charged the same capacity charges based upon their water meter size and the associated number of MEUs, which is indicative of the potential demand that the customer may place on the District's water system; and

WHEREAS, due to current plumbing code standards, many single family and duplex customers are required to install fire sprinklers, which requires at least a one inch water meter, when constructing a new structure or remodeling an existing one, even though most of these structures could be served with a 5/8 inch water meter and are anticipated to have similar demands to other single family and duplex residences with 5/8 inch water meters. Thus, in order to avoid disproportionately charging these residential services for the rare, if ever utilized, fire flow capacity and to ensure that these customers are only charged capacity charges for their normal maximum demand on the system, these customer classes (single-family residential and duplexes) will be charged the 5/8 inch water meter capacity charge for all water meters 1 inch and smaller. Single family and duplex water meters larger than 1 inch will be required to pay the standard capacity charge for the corresponding water meter size; and

WHEREAS, in accordance with Government Code Sections 66013, 66016, and 66016.6, the Study evaluates and establishes that the amount of the capacity charges do not exceed the reasonable costs of the District services being provided, and that the manner in which those costs are allocated to a capacity charge payor bear a reasonable relationship to the payor's burdens on, or benefits received from, the District's services; and

WHEREAS, the capacity charge is not a "tax" as defined in Section 1, paragraph (e) of Article XIIIC of the California Constitution (commonly referred to as "Proposition 26") because such fee is imposed for a specific government service provided directly to the payor that is not provided to those not charged, and which does not exceed the reasonable cost to the District of providing the service; and

WHEREAS, the water capacity charge adopted by this Resolution is not subject to the requirements of Article XIIID of the California Constitution (commonly referred to as

"Proposition 218") concerning property-related assessments and fees pursuant to *Richmond v. Shasta Community Services District*, 32 Cal. 4th 409 (2004). Furthermore, the charges set forth in this Resolution and the Study will not impact any customers' water rates, nor will the adoption of Ordinance No. 469; and

WHEREAS, in accordance with Government Code Section 50076, fees and charges that do not exceed the reasonable cost of providing the service or regulatory activity for which the fees are charged and which are not levied for general revenue purposes are not special taxes as defined in Article 3.5 of the Government Code; and

WHEREAS, in accordance with Government Code Section 66016, at least fourteen (14) days prior to the public meeting at which this Resolution was adopted, it was determined that notice of the time and place of the meeting was not required to be mailed to eligible interested parties since no parties filed timely written requests with the District for mailed notice of meetings on new or increased capacity charges, and at least ten (10) days prior to the public meeting, the District made available public data indicating the amount of costs, or estimated costs, required to provide the water service for which the capacity charge in levied and the revenue sources anticipated to provide the service, including General Fund revenues, in that the notice of the meeting and a copy of the Study were posted on the District's website on March 4, 2025; and

WHEREAS, in accordance with Government Code Section 66016.6, the Study evaluating the amount of the capacity charges was available at the Office of the Board Secretary and on the District's website for public inspection, review, and comment on March 4, 2025, for fourteen (14) days prior to the public meeting at which the District considered the adoption of the water capacity charges; and

WHEREAS, on March 18, 2025, the District Board of directors adopted Ordinance No. 469 which amends provisions of the District Code governing District capacity charges.

FINDINGS

WHEREAS, the District Board of Directors finds as follows:

A. The forgoing Recitals are true and correct and are hereby incorporated as part of these findings.

B. After evaluating the Study, the testimony received at the noticed public meeting on March 18, 2025, at which this Resolution was adopted, the accompanying staff report and the Study along with appendicles, and all correspondence received at or prior to the public meeting (the "Record"), the Board finds that the Study and the proposed capacity charges set forth therein do not exceed the estimated reasonable amount required to provide the service for which the charge is being levied and are of proportional benefit to the person or property

being charged and therefore do not constitute taxes as defined by Proposition 26.

C. Pursuant to Government Code Section 66016(b), the District is authorized to approve the capacity charges set forth in this Resolution by resolution.

D. In adopting the water capacity charges via this Resolution, the District Board of Directors is exercising its powers under Government Code Sections 66013 and 66016.

E. In compliance with California Government Code Section 66324, the non-imposition of capacity charges on qualifying Junior Accessory Dwelling Units (JADUs) and Accessory Dwelling Units (ADUs) and removal of the requirement for the applicant to install a new or separate water service between a qualifying JADU or ADU and the water utility was developed and adopted and is set forth in Sections 11.56.040(h)(1-2) of the District Code.

F. To further support housing development and promote affordability, with the adoption of Ordinance No. 446, the Board of Directors authorized the waiver of capacity charges for additional ADUs described in Section 11.56.040(h)(3) of the District Code.

G. Pursuant to Government Code Section 66007, the District will allow delayed payment of capacity charges, until final inspection, for qualifying affordable housing developments.

H. The District provides an annual accounting of capacity charge revenues and expenditures in its Comprehensive Annual Financial Report (CAFR). However, the District is not required to comply with the provisions of subdivisions (c) and (d) of Government Code Section 66013 since the capacity charges collected by the District are received to (a) construct public facilities pursuant to a contract between the District and a person or entity, including but not limited to, a reimbursement agreement pursuant to Section 66003, or (2) pay existing debt service and reimburse the District for funds under a reimbursement agreement or contract for facilities in existence at the time the charges are collected.

I. The District currently provides water facilities and supplies water to the community and the water capacity charge set forth in this Resolution shall be used to maintain current service levels and reimburse the District for prior capital expenditures and existing debt service. As such, the Board's adoption of the water capacity charge, as it relates to new water service connections within the District, is exempt from the provisions of the California Environmental Quality Act (CEQA) because the action consists entirely of the

establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, or other charges necessary to (1) purchase or lease supplies, equipment or materials, (2) meet financial reserve needs and requirements, and (3) obtain funds for capital projects necessary to maintain service within the District's existing service area. (Public Resources Code § 21080(b)(8); 14 CCR §15273). The Board's adoption of these capacity charges is also exempt from the requirements of CEQA because there is no possibility that their adoption will have a significant effect on the environment. (14 CCR § 15061(b)(3).

ADOPTION OF FEE NOW,

THEREFORE, BE IT RESOLVED:

1. Water Capacity Charge Being Imposed.

Below the water capacity charges being imposed are set forth by meter size, and customer class and type, where applicable.

Connection Type	Proposed Capacity Charges
Single Family & Duplex up to 1" [1]	**$16,740**
Single Family or Duplex connections with meter size up to 1"	
Accessory Dwelling Units (ADU) [2]	**$507**
Charge per plumbing drainage fixture unit (when applicable)	
All Other Connections *by Meter Size*	
Meter Size	
5/8"	**$16,740**
3/4"	**$25,110**
1"	**$41,850**
1 1/2"	**$83,700**
2"	**$133,920**
3"	**$334,800**
4"	**$669,600**
6"	**$1,171,800**
8"	**$2,259,900**
10"	**$3,348,000**

1) Single Family and Duplex customers with a meter size greater than 1" shall be assessed a capacity charge based on the corresponding meter size set forth in "All Other Connections" above

2) ADU capacity charge applies pursuant to Government Code and District Code, when applicable

2. Annual Adjustment.

On July 1st of each year, commencing on July 1, 2026, the water capacity charge described herein shall be adjusted to account for increases or decreases in the index set forth below. The water capacity charge shall be adjusted as follows:

i. Annual Economic Adjustment to Water Capacity Charge. The water capacity charge shall be adjusted in accordance with the following formula:

NCF = OCF + ((OCF) x (ENR Annual Change))

Wherein,
"NCF" is the new or adjusted water capacity charge for the upcoming fiscal year;
"OCF" is the water capacity charge in effect during the current fiscal year; and
"ENR Annual Change" is the percentage change in the Engineering News Record Construction Cost Index for the San Francisco area from December for the second prior calendar year to December for the prior calendar year.

3. The capacity charges collected shall continue to be used solely to fund public facilities in existence at the time capacity charges are imposed or for new public facilities to be acquired or constructed in the future that are of proportional benefit to the person or property being charged a capacity charge, including supply or capacity contracts for rights or entitlements, real property interests, and entitlements and other rights of the District involving capital expense relating to its use of existing or new public facilities.

4. This Resolution shall take effect immediately upon its adoption. The capacity charges imposed herein shall become effective on July 1, 2025. District staff is hereby directed to begin applying the capacity charges set forth in this Resolution to all new and pending water service applications not completed prior to July 1, 2025.

5. Since adoption of the capacity charge methodology set forth in this Resolution will eliminate the existing water entitlement system, to ensure no changes to customer water rates occur due to the adoption of this Resolution, the Board of Directors directs District staff to continue providing non-residential customers bimonthly allotments of water (water budget) based on their defined water needs and billing those customers based upon their individual baselines as specified in Section 11.08.035 and 11.24.050 of the District Code.

6. If any section, subsection, clause or phrase in this Resolution or the application thereof to any person or circumstances is for any reason held invalid, the validity of the remainder of this Resolution or the application of such provisions to other persons or circumstances shall not be affected thereby. The Board hereby declares that it would have passed this Resolution and each section, subsection, sentence, clause, or phrase thereof, irrespective of the fact that one or more sections, subsections, sentences, clauses or phrases or the application thereof to any person or circumstance be held invalid.

PASSED AND ADOPTED this 18th day of March, 2025 by the following vote of the Board of Directors.

AYES:

NOES:

ABSENT:

Matt Samson
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary

MARIN WATER

Attachment 4

Board Policy No. 12
Original Adoption Date: 03-27-1985
Prior Revision Date: 02-21-2007
Revised: 03-18-2025

Low Income/Affordable Housing

The Board of Directors is aware of the lack of low income/affordable housing within the District's service area. In support of the need to address the imbalance in housing stock through economic incentives, and in accordance with California State Law, the Board developed this policy. "Housing" under this policy is defined to include rental housing, condominiums, cooperative housing, ownership housing, housing for families, housing for seniors, housing for physically and/or mentally disabled people, emergency shelters, and shared housing.

It is the policy of Marin Municipal Water District (District) not to deny or condition the provision of water service, nor to reduce the amount of service applied for on the behalf of any development that includes housing units affordable to lower and very low income households, unless it makes specific findings that the denial, condition, or reduction is necessary due to the existence of one or more of the following:

a. District does not have “sufficient water supply,” as defined in paragraph (2) of subdivision (a) of Section 66473.7 of the Government Code, or is operating under a water shortage emergency as defined in Section 350 of the Water Code.
b. District does not have sufficient water treatment or distribution capacity to serve the needs of the proposed development, as demonstrated by a written engineering analysis and report.
c. District is subject to a compliance order issued by the State Department of Health Services that prohibits new water connections.
d. The applicant has failed to agree to District’s terms and conditions relating to the provision of service generally applicable to development projects seeking water service from District, including, but not limited to, the requirements of local, state or federal laws, regulations and ordinances, payment of necessary fees or charges, and construction of on-site or off-site improvements as needed to serve the proposed development to standards established by District.

Should a water shortage occur, resulting in limited water supplies available for new development, the District shall give preference and priority to any project containing an affordable housing component. Should supplies be so limited that all projects with an affordable housing component cannot be serviced, the District shall grant water service to the project or projects with the highest percentage of units considered affordable to lower or very low income residents. Should two or more competing developments be considered

equal in their provision of affordable housing units, service will be allocated on a first come first served basis, based upon the date that complete submittals were provided to the District, to the project or projects.

The District shall review this policy at least once every five (5) years.

Because capacity charges are based on the estimated reasonable cost of providing service, the District generally does not grant fee reductions. However, the District may grant requests for up to 50% reduction in the capacity charge on any new project or conversion developed by a governmental or non-profit agency or as a part of a for-profit development if such project or conversion meets the following tests:

I. **PROJECTS DEVELOPED BY GOVERNMENTAL OR NONPROFIT AGENCIES**

A. The District will grant requests for a 50% reduction in the capacity charge on any new or conversion housing project which:

1. Is eligible for Community Development Block Grant (CDBG) assistance; and,

2. Is comprised entirely of units which are:

a) In the case of rental projects, for low and moderate income residents whose incomes do not exceed 100% of the area median income as defined in Section 50079.5 of the California Health and Safety Code; or,

b) In the case of homeownership projects, for low and moderate income residents, as defined in Sections 50079.5 and 50093 of the California Health and Safety Code; and,

c) Legally restricted to retain affordability for at least thirty (30) years; and

3. Reserves at least 50% of the units for persons or households defined as lower income households by the California Health and Safety Code, Section 50079.5; and,

4. Has a commitment of public or foundation funding.

B. The following information shall be provided to the District to support the request:

1. Evidence that the project is being developed and operated by a governmental or non-profit organization.

2. Evidence that the project is legally restricted for a period of not less than thirty (30) years to house only low-income tenants.

3. A statement showing that financing has been obtained and itemizing sources and terms of such financing.

4. Tabulation of types of units and income level parameters.

5. A statement of need and effect of not receiving a capacity charge reduction.

II. FOR-PROFIT DEVELOPMENTS

A. The District will grant requests for a 50% reduction in the capacity charge on those rental or homeownership units in any for-profit development which:

1. Are for lower income households whose incomes do not exceed 80% of the area median income as defined in Section 50079.5 of the California Health and Safety Code.

2. Are legally restricted to retain affordability for at least thirty (30) years.

B. The following information shall be provided to the District to support the request:

1. Evidence that the units are legally restricted for a period of not less than thirty (30) years to house only said lower income households.

2. Tabulation of the units which qualify for the reduction in capacity charges and the income level parameters applicable thereto.

3. The planning agency's stated conditions of project approval.

III. SECOND LIVING UNITS (JUNIOR AND ACCESSORY DWELLING UNITS (JADUs AND ADUs))

The Board recognizes that second living units, JADUs and ADUs, may provide affordable housing within the District's service area. To support the development of such units, the District will make the following special allowances:

A. A payment plan may be available for capacity charges in excess of $5,000 for any second living unit, either new or the legalization of an existing unit, whereby the payments can be amortized for up to five years. (See Board Policy No. 27 – Capacity Charge Installment Plan &

Deferred Payment of Charges for Qualifying Affordable Housing Projects).

B. The District may also waive capacity charges for qualifying JADUs and ADUs. (See District Code Section 11.56.040(h)).

IV. DISTRICT REVIEW AND REQUIREMENTS

When staff has received sufficient information about a project to assure the requirements listed above have been met, the request for capacity charge reduction may be granted subject to the entire project meeting the following conditions:

1. Projects shall incorporate water conserving fixtures into their designs and shall install and maintain water conserving landscaping in compliance with District requirements in effect at that time.

2. Application for water service shall be completed within one year after approval for reduction is granted.

MARIN WATER

Attachment 5

Board Policy No. 27
Original Adoption Date: 03-27-1985
Prior Revision Date: 07-07-2004
Revised: 03-18-2025

Capacity Charge Installment Plan & Deferred Payment of Charges for Qualifying Affordable Housing Projects

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The Board of Directors is aware that some applicants for water service may have difficulty paying the full capacity charge for their project in one lump-sum payment. To accommodate those applicants, the capacity charge installment plan ("Installment Plan") allows applicants to pay the capacity charge for a new water service, or upgrade of an existing water service, on a payment schedule. Requests for payment under the Installment Plan may be approved by the General Manager, with concurrence of the Finance Division Manager, provided that the following conditions are met:

A. INSTALLMENT PLAN - REQUIREMENTS

1. The applicant must make a written request for an Installment Plan at the time of submitting an application for new or increased service. The request shall include a statement that payment of the capacity charge in one lump sum will constitute a financial hardship, which should include supporting documentation specific to the Applicant's project including statements from lenders or public agencies supporting the project, as applicable.
2. The minimum capacity charge to be considered for the installment is $5,000 per new or increased water service. The maximum term for any installment plan is five (5) years. Applicant may request a shorter term if desired.
3. Service installation fees, as defined in Section 11.56.010 of the District Code, are not included under the Installment Plan and must be paid at the time of application for service.
4. For each Installment Plan, the property owner must enter into an Installment Plan payment agreement with the District addressing the terms of payment. Payments under the plan shall be paid in monthly installments, with the first payment due at the time the water service application, or water capacity upgrade, is approved. Interest will be charged on the unpaid balance at a rate that is 1% above that which the District receives on its Local Agency Investment Fund (LAIF) Pooled Money Investment Account monthly yield ("Interest Rate") for the most recent month for which data is available prior to execution of the Installment Plan agreement.
5. In connection with the Installment Plan Agreement, the applicant will pay all costs associated with placing a lien on the property, pending payment of all Installment Plan payments, and subsequent removal of the lien.

6. Should the property owner elect to sell the property prior to payment in full of the capacity charge, the monies due to the District shall be paid in full prior to the sale or shall be paid out of escrow at the time of closing the sale.
7. The District may cancel the water service application approval if any Installment Plan payment is late by more than ten (10) business days whereas the full remaining balance of the capacity charge shall be due and payable. If any such cancellation occurs, the District will assess an administrative fee of $500.

B. EXTENDED PERIOD FOR PAYMENT OF CAPACITY CHARGES FOR QUALIFYING AFFORDABLE HOUSING PROJECTS

1. While District capacity charges are collected to reimburse the District for expenditures previously made, Government Code Section 66007, prohibits the District from collecting capacity charges for certain affordable housing projects until the time of final inspection.

2. When submitting a water service application to the District, Applicants shall notify the District if they believe their proposed development project qualifies for delayed payment of capacity charges pursuant to Government Code Section 66007.

3. Water service installation fees, as defined in Section 11.56.010 of the District Code, shall be paid at the time of application for service.

4. Applicants may elect to receive deferred payment of capacity charges for qualifying affordable housing projects, pursuant to Government Code 66007, as well as receive a capacity charge Installment Plan permitted by this policy. If such Installment Plan is elected by applicant, it will be offered to the applicant in compliance with Government Code section 66007 and on the terms set forth herein.

MARIN WATER

UPCOMING MEETINGS

This schedule lists upcoming board and committee meetings as well as upcoming agenda items for the next month, which may include Board interest in adding future meeting items. The schedule is tentative and subject to change pending final publication and posting of each meeting agenda.

Internal Meetings		
Meeting Date	**Meeting Type**	**Key Item(s)**
Thursday, Mar. 20, 2025 9:30 a.m.	Watershed Committee Meeting/Special Meeting of the Board of Directors	Azalea Hill, and Watershed Facility Review
Tuesday, Mar. 25, 2025 9:30 a.m.	Planning Committee Meeting/Special Meeting of the Board of Directors	Water Efficiency Update, and Water Quality Monitoring Work Update
Thursday, Mar. 27, 2025 8:30 a.m.	Finance & Administration Committee Meeting/Special Meeting of the Board of Directors with Closed Session at the beginning	FY 2025/26 and FY 2026/27 Budget Update
Tuesday, Apr. 1, 2025 5:30 p.m.	Board of Directors' Regular Bi-Monthly Meeting with Closed Session at the beginning	Recycled Water
Date TBD	Spring Employee Appreciation Event	

External Meetings	
Meeting Date	**Meeting Type**
Wednesday, Mar. 19, 2025 3:00 p.m.	Tomales Bay Foundation
Friday, Mar. 21, 2025 9:00 a.m.	Lagunitas Technical Advisory Committee
Tuesday, Mar. 26 thru Mar. 28	Marin Wildfire Prevention Authority and the Climate and Wildfire Institute's Key Note Speaker Event (evening of March 26), Regional Meeting (all day on March 27), and Tours (all day on March 28)