



NORTH MARIN WATER DISTRICT
AGENDA - REGULAR MEETING
December 6, 2022 – 6:00 p.m.
Location: Virtual Meeting
Novato, California

Information about and copies of supporting materials on agenda items are available for public review at the District Office, at the Reception Desk, by calling the District Secretary at (415) 897-4133 or on our website at nmwd.com. A fee may be charged for copies. District facilities and meetings comply with the Americans with Disabilities Act. If special accommodations are needed, please contact the District Secretary as soon as possible, but at least two days prior to the meeting.

ATTENTION: This will be a virtual meeting of the Board pursuant to the authorizations provided by Government Code section 54953(e)."

There will not be a public location for participating in this meeting, but any interested member of the public can participate telephonically by utilizing the dial-in information printed on this agenda.

Video Zoom Method

CLICK ON LINK BELOW:

Go to: <https://us02web.zoom.us/j/82191971947> OR

Password: 466521

SIGN IN TO ZOOM:

Meeting ID: 821 9197 1947

Password: 466521

Call in Method:

Dial: +1 669 900 9128
+1 253 215 8782
+1 346 248 7799
+1 301 715 8592
+1 312 626 6799
+1 646 558 8656

Meeting ID: 821 9197 1947#

Participant ID: #

Password: 466521#

For clarity of discussion, the Public is requested to MUTE except:

1. During Open Time for public expression item.
2. Public comment period on agenda items.

Please note: In the event of technical difficulties during the meeting, the District Secretary will adjourn the meeting and the remainder of the agenda will be rescheduled for a future special meeting which shall be open to the public and noticed pursuant to the Brown Act.

All times are approximate and for reference only.
The Board of Directors may consider an item at a different time than set forth herein.

Est.
 Time
 6:00 p.m.

Item

Subject

CALL TO ORDER

1. **Oath of Office: Director Fraites**

2. **REORGANIZATION OF BOARD:**

1. Election of President
2. Election of Vice President
3. Establishment of Meeting Times and Place
4. Establishes the Manner of Calling Special Meetings
5. Appointment of District Officers
6. Confirm Board Meeting Schedule for 2023
7. Committee Appointments

3. **HEARING**

Consider Adopting Resolution 22-XX Approving Changes to the Facility Reserve Charges and Amending Regulation 1 Resolution

4. **APPROVE MINUTES FROM REGULAR MEETING**, November 15, 2022

5. **GENERAL MANAGER'S REPORT**

6. **OPEN TIME: (Please observe a three-minute time limit)**

This section of the agenda is provided so that the public may express comments on any issues not listed on the agenda that are of interest to the public and within the jurisdiction of the North Marin Water District. When comments are made about matters not on the agenda, Board members can ask questions for clarification, respond to statements or questions from members of the public, refer a matter to staff, or direct staff to place a matter of business on a future agenda. The public may also express comments on agenda items at the time of Board consideration.

7. **STAFF/DIRECTORS REPORTS**

CONSENT CALENDAR

The General Manager has reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person.

8. **Consent - Approve:** Re-Authorizing Meetings by Teleconference of Legislative Bodies of North Marin Water District Resolution

9. **Consent - Approve:** Extension of Half Moon Tank License Agreement for Novato Sanitary District Antenna

ACTION CALENDAR

10. **Approve:** Resolution of Appreciation for James Grossi Resolution

INFORMATION ITEMS

11. Quarterly Financial Statement

12. Comments on Draft Environmental Impact Report for the County of Marin Housing Element Update, October 2022

13. NBWA Meeting – December 2, 2022

Est. Time	Item	Subject
	14.	MISCELLANEOUS Disbursements – Dated November 17, 2022 Disbursements – Dated November 23, 2022 Disbursements – Dated December 1, 2022 NOTICE OF BOARD VACANCY Point Reyes Light - Salinity Notice – November 17, 2022 Point Reyes Light - Salinity Notice – November 23, 2022 Point Reyes Light - Salinity Notice –December 1, 2022 NOAA Three Month Precipitation Outlook – December, January, February NOAA Seasonal Drought Outlook Notice of Special Meeting Marin IJ– James Grossi, Jr. – Obituary Marin IJ – Judy Schriebman - Obituary Marin IJ – Notice of Public Hearing North Marin Water District- November 21, 2022 Marin IJ – Notice of Public Hearing North Marin Water District- November 28, 2022 Point Reyes Light – Notice of Public Hearing North Marin Water District – November 23, 2022 Point Reyes Light – Notice of Public Hearing North Marin Water District – December 1, 2022 Forestry Corps Letter of Support California Department of Water Resources – New Report Shows Continued Water Conservation is Key to Enabling Suppliers to Meet Demand
		<u>News Articles:</u> Point Reyes Light – North Marin Water District’s new well is up and running Marin IJ – Landowner’s new push to expand county park – NOVATO Marin IJ – Current affairs – Coho salmon spawners heading upstream after rains – WEST MARIN Marin IJ – Marin officials pan key housing mandate report – ENVIRONMENTAL IMPACTS Marin IJ – California Coastal Commission approves new desalination plant MONTEREY BAY Marin IJ – Squeeze on Marin medical system – RESPIRATORY CASES Marin IJ – Utility: Housing to strain system – NORTH MARIN WATER DISTRICT Marin IJ – Utility to appoint successor to seat of late director – NORTH MARIN WATER DISTRICT Marin IJ – State outlook mixed for winter COVID-19 wave – CORONAVIRUS Marin IJ – Dry years pose rising risk for ecosystems, rural areas – STATE DROUGHT Marin IJ – Weather outlook for Marin turns wet and colder – THE COUNTY
8:30 p.m.	15.	ADJOURNMENT

1



MEMORANDUM

To: Board of Directors

December 6, 2022

From: Terrie Kehoe, District Secretary

A handwritten signature in blue ink, appearing to be "TK", is written over the name "Terrie Kehoe".

Subject: Oath of Office for Directors

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RECOMMENDATION:

The District Secretary will administer the oath of office to Director Fraites.

2



MEMORANDUM

To: Board of Directors
 From: Terrie Kehoe, District Secretary 
 Subject: Reorganization of Board of Directors in an Election Year
t:\bod\annual reorg\2022\bod memo reorganization of the board.doc.docx

Date: December 6, 2022

RECOMMENDED ACTION: Approve Reorganization of Board of Directors
FINANCIAL IMPACT: None

Following is an outline of procedures that may be followed at the December 6, 2022 meeting to meet the requirements of the County Water District Law and the California Election Code concerning organization of the Board of Directors after the election of Directors.

The current President calls the meeting to order. He may conduct the nominations or may instruct the Secretary to assume the Chair.

The Secretary states that the Oaths of Office have been administered to Director Fraites and will be filed with the Marin County Clerk in accordance with Section 30510 of the Water Code and Section 23556 of the Elections Code.

1. Election of President. Nominations are received for the office of President of the Board. Directors vote on nominated candidates for President. (Attachment 1)
2. Election of Vice President. The elected President assumes the Chair and presides over the election of Vice President. Nominations are received for the office of Vice President of the Board. Directors vote on the nominated candidates for Vice President.
3. Establishment of Meeting Times and Place. By motion, the Board establishes the time and place of holding its regular meetings: Generally, the first and third Tuesdays of each month at 6:00 p.m. at District office, with one meeting to be held in West Marin at a place to be determined.
4. Establishing the Manner of Calling Special Meetings. By motion, the Board establishes the manner of calling special meetings (under provisions of Section 54956 of the Government Code).
5. Appointment of District Officers. By motion, the Board appoints a General Manager, District Secretary, Auditor-Controller, and Assistant GM/Chief Engineer and any other officers necessary and convenient to the District.

6. Confirmation of Board Meeting Schedule for 2023. By motion, the Board accepts the proposed meeting dates for the upcoming calendar year with the understanding that the calendar may be adjusted as needed. (Attachment 2)

7. Committee Appointments. Board review committee appointments recommended by the President. (Attachment 3)

RECOMMENDATION

To nominate a President and Vice President of the Board, establish times and place of meetings, establish manner of calling Special Meetings, appoint District Officers, confirm 2023 Board Meeting Schedule and review committee appointments recommended by President.

ATTACHMENTS:

- 1) NMWD Board of Directors Officer Rotation
- 2) Draft 2023 Schedule NMWD Board of Directors Meetings
- 3) NMWD Board of Directors Committee/Association Assignments

NMWD BOARD OF DIRECTORS
OFFICER ROTATION

Year	President	Vice President
2023	Rick Fraites	Jack Baker
2024	Jack Baker	Mike Joly
2025	Michael Joly*	TBD
2026	TBD	Steve Petterle*
2027	Steve Petterle*	Rick Fraites*

*pending re-election

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(Continued)

2023 SCHEDULE
NORTH MARIN WATER DISTRICT
BOARD OF DIRECTORS MEETINGS

MONTH	DATE	TIME
January	3 (Tentative)	6:00 p.m.
	17	6:00 p.m.
February	7	6:00 p.m.
	21	6:00 p.m.
March	7	6:00 p.m.
	21	6:00 p.m.
April	4	6:00 p.m.
	18	6:00 p.m.
May	2	6:00 p.m.
	16	6:00 p.m.
June	6	6:00 p.m.
	13 (Tentative) Budget	6:00 p.m.
	20 (Point Reyes)	6:00 p.m.
July	18	6:00 p.m.
August	1 (Tentative)	6:00 p.m.
	15	6:00 p.m.
September	5 (Tentative)	6:00 p.m.
	19	6:00 p.m.
October	3	6:00 p.m.
	17	6:00 p.m.
November	7	6:00 p.m.
	21	6:00 p.m.
December	5	6:00 p.m.
	19	6:00 p.m.

All Board meetings are typically held the first and third Tuesday of the month at the District's headquarters, 999 Rush Creek Place, Novato, except one meeting to be scheduled in West Marin (and any others on an 'as-needed' basis).

If you would like information regarding agenda items, please contact District Secretary Terrie Kehoe at (415) 761-8921.

**NORTH MARIN WATER DISTRICT
BOARD OF DIRECTORS
COMMITTEE/ASSOCIATION ASSIGNMENTS
2023**

EXTERNAL Committees

NMWD Representative(s)/Alternate

North Bay Watershed Association

1 meeting per month – Friday
9:30 a.m. – 11:30 a.m.
Petaluma / Novato

Rick Fraiters/Jack Baker

Russian River Public Policy Facilitation Committee

(Russian River Biological Assessment/Opinion)
1 meeting per year – Friday
9:00 a.m. – Noon
Santa Rosa/Ukiah

Steve Petterle/TBD

Water Advisory Committee

1 meeting per quarter – Monday
9:00 a.m. – Noon
Santa Rosa

Jack Baker/Michael Joly

North Bay Water Reuse Authority/NorthBay Water

1 meeting per quarter – Monday
9:30 a.m.
Novato Sanitary District/Novato City Hall

Jack Baker/TBD

Novato Watershed Policy Advisory Committee

As needed

Rick Fraiters/Jack Baker

INTERNAL Committees

Recycled Water Subcommittee

As needed

Jack Baker/Steve Petterle

NMWD Drought ad Hoc Committee

As needed

Steve Petterle/ TBD

Note: ad Hoc Committees are deleted off the list once no longer in use

3



MEMORANDUM

To: Board of Directors Date: December 6, 2022
 From: Tony Williams, General Manager *TW*
 Subject: Public Hearing to Consider Adopting Resolution 22-XX Approving Changes to Facility Reserve Charges and Amending Regulation 1
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RECOMMENDED ACTION: That the Board:

- 1) Hold a Public Hearing to Consider Approval of Changes to Regulation 1 – New Service Connections
- 2) Consider Adopting Resolution 22-XX Approving Changes to Facility Reserve Charges, and Amending Regulation 1

FINANCIAL IMPACT: None at this time

The North Marin Water District (District) requires the collection of a Facility Reserve Charge (FRC) for a new water service or expansion of an existing service beyond the capacity previously purchased. The FRC is based on the District's estimate of the quantity of water that will be used on the average day of the maximum month expressed in "equivalent single-family dwelling units" or EDUs. Government Code Section 66013 contains specific requirements related to the imposition of an FRC, which are also referred to as "capacity charges" in the code. The California state law gives the District broad authority to charge for capital facilities but in general, capacity charges must not exceed the estimated reasonable cost of providing water service and charges on new development. As a whole the charges should bear a reasonable relationship to the needs and benefits created by the development.

District Regulation 1 establishes the current FRC costs for the Novato Service Area and the West Marin Service Area. The FRC cost varies depending on the type of development or planned water use, such as the various types of residential structures in addition to a single-family home (townhouses, apartments, etc.), accessory dwelling units (ADUs) as well as commercial development. Regulation 1 is periodically reviewed and updated and the most recent updates, specific to FRCs, were conducted in 2008 for the Novato Service Area and in 2014 for the West Marin Service Area.

At the November 15, 2022 Board Meeting, the District's consultant Hildebrand Consulting, LLC gave a presentation about the recently completed Facility Reserve Charge Study

(Study). Facility Reserve Charges (also called capacity charges or connection fees among other terms) are the one-time charges paid by new development for the right to connect to the water system. The purpose of this Study was to review and update the District's existing Facility Reserve Charges. This report summarizes the analysis and recommendations of the Facility Reserve Charges update, including the legal requirements and the Study's methodology for calculating the Facility Reserve Charges. A copy of the Final Study is provided as Attachment 1.

There are two basic methodologies commonly used for calculating FRC values: the "Buy-in" method, and the Incremental method. Each method has advantages and disadvantages as well as applicability in a given situation. The Buy-in approach is best applied for water systems where development is essentially complete (buildout has nearly been achieved) and capacity exists in the system, and the incremental method is best used when considerable population growth is expected and there is limited capacity in the existing water system. Capacity charge approaches typically combine both methodologies, including both existing and planned facilities in fee calculations since new development frequently benefits from both surplus capacity in existing facilities while also requiring the need for constructing additional capacity. Therefore, the hybrid approach (combining these methodologies) recognizes that new water service customers are benefitting from both the available facilities that have already been constructed and the additional capacity that will be built in order to accommodate them. As such, capacity charges using the hybrid method include a combination of the unit costs derived from the Buy-In methodology – weighted to avoid overcharging – and unit costs derived from the Incremental methodology.

After considering the District's situation and the applicability of various methods, the Hildebrand Study used the hybrid approach to calculate the FRCs for both the Novato and West Marin Service areas. The hybrid approach is appropriate because while some capacity remains available in the existing systems to meet the needs of future users, a portion of that available capacity needs to remain un-used for the purpose of providing a buffer against changes in peak usage or changes in existing customer demands. In addition, the District's long-term capital improvement plan (through 2035) includes numerous projects which add capacity needed to serve future growth (see Appendix B and E in the Study). The hybrid approach, as detailed in the Study, uses the weighted average of both methods, and results in reasonable fees which will ensure that existing users do not bear the burden of providing capacity to new users. Notably, according to Appendix C to the Facility Reserve Charge Study, a single Sonoma County Water

Agency project, its Capacity Improvements Project, accounts for over half of the capital facility costs used in the incremental methodology calculation of the FRC for the Novato Service Area.

The Facility Reserve Charge (FRC) for various development types and associated service areas developed from the Study are summarized in the table below. In some categories, the FRC is being reduced and in others the FRC is increasing. For non single-family residential dwellings, The Study used actual water use data to develop the FRC values. The FRC values from the Study, listed below, are proposed for incorporation in Regulation 1.

Novato Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Single family detached residences and duplexes	\$28,600	\$28,310	(\$290)
Townhouses and condominiums (3 units or more)	\$17,200	\$19,250	\$2,050
Mobile home	\$10,000	\$11,040	\$1,040
Apartment houses - 5 units or more	\$11,200	\$13,870	\$2,670
Second d.u. or Accessory Dwelling Unit (ADU)*	\$10,000	\$7,640	(\$2,360)

* including manufactured ADUs, on a parcel in undivided ownership up to 1,200 square feet in size

Recycled Water Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Commercial or multi-family irrigation*	\$28,600	\$28,310	(\$290)

*or other approved recycled water uses

West Marin (Water) Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Single family detached residences and duplexes	\$22,800	\$20,660	(\$2,140)
Townhouses and condominiums (3 units or more)	\$13,700	\$14,050	\$350
Mobile home	\$8,000	\$8,060	\$60
Apartment houses - 5 units or more	\$8,900	\$10,120	\$1,220
Second d.u. or Accessory Dwelling Unit (ADU)*	\$8,000	\$5,580	(\$2,420)

* including manufactured ADUs, on a parcel in undivided ownership up to 1,200 square feet in size

Accessory Dwelling Units

A more detailed discussion of the proposed FRC for the Accessory Dwelling Unit category of development as well as a summary of when an FRC is levied is warranted. After approval of an Accessory Dwelling Unit (ADU) by the local land use agency (either City of Novato

or County of Marin, as appropriate), Government Code section 65852.2 prohibits the District from imposing a capacity charge (i.e., an FRC) or a connection fee (including the cost for a new service lateral and meter) for the following types of ADUs, unless the applicant has requested a separate service line or meter: 1) An ADU within the existing space of a single-family dwelling; and 2) An ADU within the existing space of an accessory structure (which may include an expansion of not more than 150 square feet beyond the same physical dimensions as the existing accessory structure, provided that the expansion shall be limited to accommodating ingress and egress); or 3) An ADU within the proposed space of a single-family dwelling.

For ADUs other than those described above, the District is allowed to require a separate service connection and to impose the FRC as well as any associated new connection fees on the ADU. However, subdivision (f)(5) of section 65852.2 restricts the amount of the connection fee or capacity charge that can be imposed in two respects:

- The fee or charge must “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”; and
- The fee or charge must “not exceed the reasonable cost of providing this service.”

As described above, the Study, using the hybrid methodology, used actual water use data for specific structure types to calculate the respective FRCs proportionately to the baseline of a single-family dwelling. Staff separately analyzed proportionate costs for an ADU using the DFU values approach described in the code. This analysis demonstrated that the FRC for an ADU calculated based on DFUs could be as high as \$17,835 for the Novato Service Area (but in no case any lower than \$11,890) compared to the proposed FRC value of \$7,640. Staff is recommending, as supported by the Study, a new second dwelling unit/ADU FRC value of \$7,640, which is based on a more accurate proportional cost calculation (using actual water use data) to replace the current FRC value of \$10,000.

Other minor changes are proposed to Regulation 1 as indicated in Exhibit A to the attached Resolution (Attachment 2), including a change to the title. These minor changes include language in section c. to clarify that once a customer pays the FRC and water service commences for a property, it can't be transferred to a different property. In addition to the proposed FRC values, the tables in c.(1) and c.(2) have a single second dwelling unit/ADU category and a new table c.(3) is proposed to provide a separate Recycled Water FRC table similar to the

corresponding tables for the two potable water service areas. A revision to the 5/8" Service Line Charge for all three FRC tables is proposed since only a 1" service line is used. New language is proposed to c.(7) to include other pavement restoration charges in certain circumstances. Finally, new language is proposed for section g. and a new section l. to clarify situations when the District could, at the sole discretion of the General Manager, approve new service before typical land use approval or for temporary service. A short overview of the Study and the Regulation 1 changes (Attachment 3) will be presented at the hearing.

RECOMMENDATION

Adopt Resolution 22-XX Approving Changes to Facility Reserve Charges, and Amending Regulation 1

ATTACHMENTS:

1. Facility Reserve Charge Study, Final Report, November 15, 2022, Hildebrand Consulting
2. Resolution 22-XX, including Exhibit A
3. Public Hearing Presentation



**NORTH MARIN
WATER DISTRICT**

Facility Reserve Charge Study

Final Report

November 15, 2022



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APPENDIX A – GOVERNMENT CODE SECTIONS 66013, 66016, 66022, AND 66023

APPENDIX B – NOVATO WATER AND RECYCLED WATER SYSTEM ASSET LIST

APPENDIX C – NOVATO WATER AND RECYCLED WATER CAPITAL SPENDING PROJECTIONS

APPENDIX D – WEST MARIN WATER ASSET LIST

APPENDIX E – WEST MARIN WATER CAPITAL SPENDING PROJECTIONS

1. INTRODUCTION AND BACKGROUND

The North Marin Water District (District) has contracted with Hildebrand Consulting, LLC to conduct a Facility Reserve Charge Study (Study). Facility Reserve Charges (also known as capacity charges or connection fees among other terms) are the one-time charges paid by new development for the right to connect to the water system.

The purpose of this Study was to review and update **the District's existing** Facility Reserve Charges. The most recent updates **to the District's Facility Reserve Charges were** conducted in 2008 for the Novato Water service area and in 2014 for the West Marin Water service area. This report summarizes the analysis and recommendations of the Facility Reserve Charges update, including the legal requirements and **the Study's** methodology for calculating the Facility Reserve Charges.

2. ACRONYMS

The acronyms used in this study include:

CCI	Engineering News Record's 20 -cities Construction Cost Index
d.u.	dwelling unit
ENR	Engineering News Record
FRC	Facility Reserve Charge
RCNLD	replacement cost new less depreciation
SFE	single family equivalent
SRF	State Revolving Fund
STP	Stafford Treatment Plant
UWMP	Urban Water Management Plan

3. FACILITY RESERVE CHARGE AUTHORITY

Government Code Section 66013 (see Appendix A) contains specific requirements related to the imposition of Facility Reserve Charges (**referred to as "capacity charges" in the code**). California state law gives the District broad authority to charge for capital facilities. In general, capacity charges must not exceed the estimated reasonable cost of providing service. The limitations of that authority are encompassed by the requirement that charges on new development bear a reasonable relationship to the needs created by, and the benefits accruing to that development. California courts use that reasonableness standard to evaluate the constitutionality of exactions on new development, including capacity charges.

4. SERVICE AREA BACKGROUNDS

This Study addresses the Facility Reserve Charge for the District's two principal service areas: Novato Water and West Marin Water.

4.1. NOVATO WATER SYSTEM AND RECYCLED WATER SYSTEM

The Novato Water system provides potable and recycled water service to approximately 61,000 residents in the greater Novato area through 20,700 potable water service connections and 97 recycled water connections. **Nearly three quarters of the Novato service area's potable water supply** is purchased from the Sonoma Water (a wholesaler), while the remaining supply is treated surface water from Stafford Lake. The recycled water is sourced through a collaboration with Novato Sanitary District and Las Gallinas Valley Sanitary District. For purposes of this Study, and consistent with current District practices, the proposed Facility Reserve Charges are the same for potable water customers and recycled water customers.

4.2. WEST MARIN WATER SYSTEM

The West Marin Water system serves primarily the Point Reyes Station, Olema, Bear Valley, Inverness Park and Paradise Ranch Estates communities, encompassing approximately 24 square miles. There are approximately 780 active service connections in the West Marin Water service area, with an estimated population over 1,800. The water source in the area is limited to groundwater.

5. INTRODUCTION TO CHARGE METHODOLOGIES

There are two primary approaches that are used to calculate capacity charges. Each method has varying advantages and disadvantages, as well as applicability in a given situation. Other methodologies are usually some variation or combination of these two primary methods.

5.1. BUY-IN METHODOLOGY

The "Buy-In" method is based on the value of the existing capital facilities that serve current customers. The 'Buy-In' **concept** means that existing system users, through service charges and fees, have financed a valuable public capital facility. The charge is designed to recognize the previous investments into the capacity/condition of the system and equitably charge developers for **"joining" the system**. The Buy-In fee is calculated by establishing **the system's current** fixed asset value (accounting for depreciation), adding applicable assets (such as cash reserves), and deducting relevant liabilities (i.e., long-term debt). This value (**considered to be the utility's equity**) is then divided by the capacity of the existing system (express in equivalent connections, often equivalent meters) to establish the capacity charge. By calculating the capacity charge in this manner, new development buys into the existing capital facilities on par with existing development. The cost of future repair and replacement of the existing assets are then shared equally by all customers going forward (through user rates). The Buy-In methodology has three distinct characteristics:

- The Buy-In methodology is a common and generally well accepted methodology for calculating capacity charges. The method is popular with developers in part because it can result in relatively lower fees compared to other methods (since the depreciation of the existing assets is recognized).
- The Buy-In methodology includes only the cost of existing facilities and excludes the cost of future or planned facilities; it therefore does not require a formal capital improvement plan to support the fee calculation.
- Capacity charges based on the Buy-In method are a reimbursement for past capital costs. Therefore, the use of the fee (as defined in the Government Code) is to reimburse the District. Once reimbursed, the District is able to spend fee revenue as it desires (normally on capital projects), and the requirement for detailed accounting of fee revenues is greatly simplified.

The Buy-In method is best applied in areas that are largely buildout and with available capacity in the existing infrastructure. This is not necessarily the case for the Novato Water and Recycled Water systems.

5.2. INCREMENTAL METHODOLOGY

The Incremental methodology is also a common approach for capacity charges, particularly for communities experiencing growth. The approach uses the estimated cost of planned capital facilities to serve new growth. The assumption of the Incremental method is that existing assets are being used at full capacity by existing customers and that any new development will necessitate expansion of the system. As such, new customers pay for the “incremental” cost of expanding the system.

The cost of adding new capacity is derived from planning documents, in this case the **District’s** capital improvement plan (through 2035) for both Novato and West Marin. To the extent that expansion-related projects will also rehabilitate or improve the existing **system (e.g., an aging 4” line is replaced with a new 6” line or a new transmission line** is added where no line previously existed but also provides some redundancy value to the existing system), or if the system expansion is designed to improve fire protection capacity, a portion of the cost of the project should be borne by existing customers. As a result, it is fairly common for only a portion of new capital facility costs to be included in fee calculations. The amount of capacity that will be provided by those projects is either based on an engineering analysis of the cumulative capacity provided by the totality of the projects or (as is the case for this Study) based on the amount of forecasted growth that those projects are designed to serve.

In summary, the Incremental methodology has the following distinct characteristics:

- The Incremental approach is equally common as the Buy-In approach and is most appropriate when there is population growth and there is limited available capacity in the existing infrastructure.

- The Incremental method is based on the cost of future or planned facilities and therefore requires a formal capital improvement plan to support the fee calculation.
- Capacity charges based on the Incremental approach are designed to fund specific types of future growth-related projects, therefore the District is required (per Government Code section 660013) to **track the Facility Reserve Charge revenue and expend that revenue “solely for the purposes for which the charges were collected” (i.e., growth-related capital projects)**. Furthermore, the District is required to publish an annual report that summarizes the receipt and utilization of the Facility Reserve Charge revenue. For reference, Appendix A includes statutory requirements for accounting for Facility Reserve Charges.

5.3. HYBRID METHODOLOGY

Many capacity charge approaches combine both existing and planned facilities into fee calculations. This is because new development frequently benefits from both surplus capacity in existing facilities while also driving the need for constructing additional capacity. The hybrid approach recognizes that new customers are benefitting from both the available facilities that are already in place and the additional capacity that will be built in order to accommodate them. As such, capacity charges that are calculated using the hybrid method reflect a combination of the unit costs derived from the Buy-In methodology and unit costs derived from the Incremental methodology.

6. RECOMMENDED STUDY METHODOLOGY

After considering the District's situation and the applicability of various methods, this Study recommends using the hybrid approach to calculate the Facility Reserve Charges for both Novato and West Marin. This Study recommends the hybrid approach because while some capacity remains available in the existing system to meet the needs of future users, a portion of that available capacity needs to remain un-used for the purpose of providing a buffer against changes in peak usage or changes in existing customer demands. The **District's** capital improvement plan (through 2035) includes numerous projects which add capacity to serve future growth. The proposed hybrid approach uses the weighted average¹ of both methods, and results in reasonable fees which will ensure that existing users do not bear any part of the burden of providing capacity to new users.

7. SOURCE DATA

The following data was used for calculating the proposed Facility Reserve Charges:

¹ The weighting of the “weighted average” for both Novato Water and West Marin Water is based on the estimated amount of available capacity in the existing system (which was estimated by District staff to have about 2 percent available capacity after accounting for safety margins) and the estimated amount of additional capacity that will be created by the planned capital projects (based on estimated population growth).

- Note 7 from the District's 2023 Financial Statements – Bond & Loan Servicing Schedule for Fiscal Year 2022-2023
- North Marin Water District Statement of Net Position for the period ending June 30, 2022 (for purposes of quantifying cash reserve balances)
- Fixed Asset Listing as of July 31, 2022 (also summarized in Appendices B and C for Novato and West Marin, respectively).
- Engineering New Record -- 20-Cities Construction Cost Index through January 2022
- Meter count by service area as of August 2022, provided by District
- Workplan Master 2035 (Capital Improvement Plan through 2035 for both Novato and West Marin), prepared September 2022
- North Marin Water District 2020 Urban Water Management Plan (as the source of projected population growth in Novato).
- North Marin Water District 2014 West Marin Water System Master Plan.
- Usage by Structure Type FY 2021/22 (for analysis of water usage by different types of residential customer types)

8. FACILITY RESERVE CHARGE CALCULATIONS

The following describes the specifics of the hybrid calculation for both Novato/Recycled Water and for West Marin.

8.1. NOVATO WATER AND RECYCLED WATER FACILITY RESERVE CHARGE CALCULATIONS

The following describes the details of Facility Reserve Charge for the Novato and Recycled Water systems. The subsections first describe the Buy-In calculation, then the Incremental calculation, and finally the details of how those approaches were combined for the hybrid calculation.

8.1.1. NOVATO/RECYCLED WATER BUY-IN CALCULATION

The Buy-In portion of the Facility Reserve Charges was calculated based on Novato Water and Recycled Water fixed asset records, customer information **as found in the District's billing data**, historical and future debt financing costs, and existing reserves. Historical fixed asset costs were **escalated to current values using the Engineering News Record's 20-cities Construction Cost Index (CCI)** and depreciated based on the age as reflected in the fixed asset records. Appendix B provides a comprehensive list of the assets that were included in the analysis, including the original cost, the

estimated useful life, the estimate remaining life², the estimated replacement cost of the asset, and finally the replacement cost net less depreciation (RCNLD). The RCNLD is a combination of the previous two columns by accounting for the increase in infrastructure costs (due to cost inflation) while also recognizing the depreciation of assets that have been in use for a certain period of time. Appendix B shows that the RCNLD of the Novato Water and Recycled Water assets is \$236,949,000.

The Buy-In calculation of the Facility Reserve Charge for single family equivalent connections is explained in the following steps and shown in Table 1.

1. Start with the Novato Water and Recycled Water system valuation (the RCNLD value from Appendix B).
2. Subtract the outstanding principal on all existing debt³ related to general water system improvements. This includes the 2004 State Revolving Fund (SRF) loan for the Stafford Treatment Plant (STP), the 2011 Bank of Marin Loan, the 2018 Chase Bank Loan, the 2006 SRF Loan for the recycled water treatment plant, the multiple 2013 SRF loans for the recycled water north and south projects, and the 2022 Webster Bank loan for the Administration and Laboratory Upgrade Project and for other future critical capital projects.
3. Add the historical debt interest costs related to water system improvements⁴, which includes the debt service paid for the loans listed above.
4. Add the existing Novato Water and Recycled Water capital reserves (as of June 30, 2022). This includes undesignated cash, STP SRF Reserve-Marine Co Treasury, the Deer Island RWF Replacement Fund, the Maintenance Accrual Fund, and the Webster Bank loan proceeds (not yet expended).
5. The net system valuation (\$232,663,000, see Table 1) is then divided by the **system's** estimated capacity (expressed as single-family account equivalents⁵). The resulting Facility Reserve Charge would be \$10,430 (rounded) for a new single-family account.

² **Some of the District's assets have exceeded their estimated useful life and therefore would have been shown as having no value if treated as "fully depreciated."** Given that these assets are still in service and therefore clearly have some value, this Study has set a floor of 25 percent as the minimum remaining value.

³ Outstanding principal is subtracted from the system value since new customers that join the system will subsequently pay rates that will be used to pay for the debt service associated with those outstanding loans.

⁴ Historical interest expenses are included since **the cost of the District's assets included those** interest payments, but the cost of those loans is not included in the asset register.

⁵ **The system's current capacity was** estimated based on the count of current Novato Water and Recycled Water meters (20,364), **which were converted to equivalent 1" meters** (21,867) using the meter equivalency schedule approach described by the 2020 Novato and Recycled Water Rate Study (March 2020). It was assumed that the water

Table 1 - Buy-in Calculation of Facility Reserve Charge for Single Family Connections

Replacement Cost Net Less Depreciation (RCNLD) of current assets ¹ :	\$236,494,000
Less outstanding principal on long-term debt :	-\$45,036,000
Plus past interest costs :	\$8,804,000
Plus available Novato and Recycled Water Fund reserves ² :	\$32,401,000
Total Novato System Valuation:	\$232,663,000
Divided by system capacity (expressed as single family equivalents) ³ :	22,304
Buy-In Methodology FRC for Single Family Homes (detached):	\$10,430

¹ From District's fixed asset records for the fiscal year ended June 30, 2022. Estimated

² This is the sum of all reserves that may be used for capital or maintenance projects as of July 1, 2022.

³ Based on 2022 summary of current customer accounts and assumes that single family homes use a 1" meter, using meter equivalency schedule from the 2020 Novato and Recycled Water Rate Study.

8.1.2. NOVATO/RECYCLED INCREMENTAL CALCULATION

The Incremental portion of the Facility Reserve Charge was calculated based on the long-range capital improvement plan for Novato Water and Recycled Water, as well as expected growth projections **based on the District's 2020 Urban Water Management Plan (UWMP)**. As shown in Appendix C, the capacity portion of each individual capital project was first identified (as opposed to repair and rehabilitation) and then those capacity-related costs were further divided into growth vs. enhanced fire protection (since enhance fire protection provides a benefit to existing customers and therefore should not be borne entirely by developers).

The value of the growth-related portion of the projects (\$60.2 million, see Appendix C) was then divided by the estimated number of single-family homes that are expected to join the system over the next 12-15 years (1,844⁶). The resulting Facility Reserve Charge would be \$32,630 for a single-family account (rounded).

system has 2 percent available capacity (after accounting for safety factors) and it was assumed 1" meter equivalency is the same as a single-family account, since the latter **typically uses a 1" meter**.

⁶ The projection of new single family home equivalents over the next 12 years is based on the 2020 UWMP which projects growth of about 8.3 percent over that period.

Table 2 - Incremental Method Calculation – Novato / Recycled Water

Total Present Value Estimate of Growth-Related Capital Costs:	\$60,174,000
Planned new equivalent single family accounts ¹ :	1,844
Incremental Methodology FRC for Single Family (detached):	\$32,630

¹ Based on projected 8.3% population growth from 2025 to 2040 per the District's Urban Water Management Plan

8.1.3. NOVATO/RECYCLED HYBRID CALCULATION

The hybrid fee is calculated by taking the weighted average between the Buy-In approach and the Incremental approach. While the Buy-In approach described in Section 8.1.1 uses the value of all assets to calculate the value of an average existing single-family connection, the number of *available* connections is limited to the amount of available capacity in the existing system. Calculating the exact amount of available capacity in a system is complex and beyond the scope of this study. Based on conversations with District staff, this Study assumes that there is about 2 percent available capacity in the system after accounting for safety principals which dictate that some available capacity should remain unused in order to accommodate potential changes in user behavior. In other words, while there may be more than 2 percent available capacity remaining the system, that **capacity isn't technically available** to sell since it is important to leave some capacity cushion to account for changes in customer behavior. The results are shown in Figure 1 below (results are rounded to the nearest \$10).

Figure 1 – Novato / Recycled Water Hybrid Calculation

$$\frac{(\$232,663,000 \times 2\%) + \$60,174,000}{(22,304 \text{ SFE} \times 2\%) + 1,844 \text{ SFE}} = \frac{\$64,827,000}{2,290 \text{ SFE}} = \$28,310 \text{ per single family account}$$

8.1.4. NOVATO/RECYCLED FACILITY RESERVE CHARGES FOR OTHER RESIDENTIAL ACCOUNTS

The District has historically used relative water demands as the basis for the Facility Reserve Charge for other (non-single family) residential accounts. Water usage analysis was conducted for four types of residential accounts relative to single family account water usage (see Table 3). The proposed Facility Reserve Charge for these residential types **per dwelling unit ("d.u.")** is based on the relative amount of average water usage during peak months.

Table 3 - Proposed Novato Water and Recycled Water Residential Facility Reserve Charges

	Proposed FRC	Relative Water Usage ¹
Single family detached residences and duplexes (each d.u)	\$28,310	1.0
Townhouses and condominiums (3 units or more) (each d.u)	\$19,250	0.68
Mobile home (each d.u.)	\$11,040	0.39
Apartment houses - 5 units or more, (each d.u.)	\$13,870	0.49
Accessory Dwelling Units (ADUs) on a parcel in undivided ownership	\$7,640	0.27

¹ Relative average water usage during peak months

² The applicability of Facility Reserve Charges to ADUs is subject to state law.

8.1.5. NOVATO/RECYCLED FACILITY RESERVE CHARGES FOR NON-RESIDENTIAL ACCOUNTS

Facility Reserve Charge for non-residential accounts (commercial, institutions, industrial, or irrigation) are based on the **District's projections of the account's future** average day peak month water demands, relative to 385 gallons per month⁷. For each 385 gallons per day (average day peak month), the District will charge the equivalent of a single-family account charge. In other words, if a commercial account is expected to use 770 gallons per day on average during peak months, that account would be charge two times the then current Novato Facility Reserve Charge for single family accounts.

8.1.6. TRACKING NOVATO / RECYCLED WATER FACILITY RESERVE CHARGE REVENUE

When using the Incremental methodology, the District is responsible for reporting the use of the *Incremental portion* of the Facility Reserve Charge revenue to demonstrate that the revenue is being used to fund expansion-related capital projects (although not necessarily limited to the projects listed in Appendix C). Given that the available assets associated with the Buy-In approach have a value of \$4.6 million (2 percent of \$232.6 million) as compared to the \$60.2 million value of the planned Incremental assets, we conclude that 93 percent of the Facility Reserve Charge revenue should be used to pay for future expansion-related projects.

For reference, Appendix A includes the statutory requirements for accounting for Facility Reserve Charges. In short, the District should deposit the Incremental portion of the Facility Reserve Charge revenue in a separate designated fund and only expend those funds on expansion-related capital projects. On an annual basis the District should report the annual Facility Reserve Charge revenue, the use of funds, the beginning and ending balance of the designated fund, and a description of the

⁷ 385 gallons per day is the approximate rate of water usage by single family dwellings in the Novato service area during peak summer months.

projects that were funded with the fees.

8.2. WEST MARIN WATER FACILITY RESERVE CHARGE CALCULATIONS

The following describes the details of Facility Reserve Charge for the Novato and Recycled Water systems. The methodology mirrors the methodology used for Novato / Recycled Water, and therefore some of the content and explanation in the following subsections is redundant with the subsections within Section 8.1.

8.2.1. WEST MARIN BUY-IN CALCULATION

The Buy-In portion of the Facility Reserve Charges was calculated based on West Marin Water fixed asset records, customer information **as found in the District's billing data**, historical and future debt financing costs, and existing reserves. Historical fixed asset costs were escalated to current values **using the Engineering News Record's 20-cities Construction Cost Index (CCI)** and depreciated based on the age as reflected in the fixed asset records. Appendix D provides a comprehensive list of the assets that were included in the analysis, including the original cost, the estimated useful life, the estimate remaining life⁸, the estimated replacement cost of the asset, and finally the replacement cost net less depreciation (RCNLD). The RCNLD is a combination of the previous two columns by accounting for the increase in infrastructure costs (due to cost inflation) while also recognizing the depreciation of assets that have been in use for a certain period of time. Appendix D shows that the RCNLD of the West Marin assets is \$10,956,000.

The Buy-In calculation of the Facility Reserve Charge for single family equivalent connections is explained in the following steps and shown in Table 4:

1. Start with the West Marin Water system valuation (the RCNLD value from Appendix D).
2. Subtract the outstanding principal on the 2012 Bank of Marin loan.
3. Add the historical debt interest costs related to water system improvements⁹, which includes the debt service paid for the loan listed above.
4. Add the existing West Marin Water undesignated cash reserves (as of June 30, 2022).
5. The net system valuation (\$10,956,000, see Table 4) is then divided by the **system's** estimated capacity (expressed as single-family account equivalents¹⁰). The resulting Facility Reserve Charge would be \$11,820 (rounded) for a new single-family account.

⁸ See Footnote 2.

⁹ See Footnote 3.

¹⁰ **The system's current capacity was** estimated based on the count of current West Marin meters (781), which were **converted to equivalent 1" meters** (847) using the meter equivalency schedule approach described by the 2021 West Marin Water Rate Study (April 2021). It was assumed that the water system has 2 percent available capacity

Table 4 - Buy-in Calculation of Facility Reserve Charge for Single Family Connections

RCNLD of current assets ¹ :	\$10,956,000
Less outstanding principal on long-term debt :	-\$1,512,400
Plus past interest costs :	\$282,000
Plus existing West Marin Fund reserves ² :	\$490,000
Total Retail System Valuation:	\$10,215,600
Divided by system capacity (expressed as single family equivalents) ³ :	864
Buy-In Methodology FRC for Single Family Homes (detached):	\$11,820

¹ From District's fixed asset records for the fiscal year ended June 30, 2022. Estimated book value based on original cost, purchase date and estimated useful life. Replacement value based on the original value and escalated to 2022 value using ENR 20-cities CCI value of 12,556 for January 2022.

² This is the sum of all reserves that may be used for capital or maintenance projects as of July 1, 2022.

³ Based on 2022 summary of current customer accounts and assumes that single family homes use a 1" meter, using meter equivalency schedule from the 2021 West Marin Water Rate Study.

8.2.2. WEST MARIN INCREMENTAL CALCULATION

The Incremental portion of the Facility Reserve Charge was calculated based on the long-range capital improvement plan for West Marin Water, as well as expected growth projections of about 1 percent per year based on recent historical growth trends. As shown in Appendix E, the capacity portion of each individual capital project was first identified (as opposed to repair and rehabilitation) and then those capacity-related costs were further divided into growth vs. enhanced fire protection (since enhance fire protection provides a benefit to existing customers and therefore should not be borne entirely by developers).

The value of the growth-related portion of the projects (\$2.4 million, see Appendix E) was then divided by the estimated number of single-family homes that are expected to join the system over

(after accounting for safety factors) and it was assumed 1" meter equivalency is the same as a single-family account, since the latter typically uses a 1" meter.

the next 12-15 years (107¹¹). The resulting Facility Reserve Charge would be \$22,040 for a single-family account (rounded).

Table 5 - Incremental Method Calculation – West Marin

Total Present Value Estimate of Growth-Related Capital Costs:	\$2,358,000
Planned new equivalent single family accounts ¹ :	107
Incremental Methodology FRC Single Family (detached):	\$22,040

¹ Based on an assumed growth rate of 1 percent per year for 12 years.

8.2.3. WEST MARIN HYBRID CALCULATION

The hybrid fee is calculated by taking the weighted average between the Buy-In approach and the Incremental approach. While the Buy-In approach described in Section 8.2.1 uses the value of all assets to calculate the value of an average existing single-family connection, the number of *available* connections is limited to the amount of available capacity in the existing system. Calculating the exact amount of available capacity in a system is complex and beyond the scope of this study. Based on conversations with District staff, this Study assumes that there is about 2 percent available capacity in the system after accounting for safety principals which dictate that some available capacity should remain unused in order to accommodate potential changes in user behavior. In other words, while there may be more than 2 percent available capacity remaining the system, that **capacity isn't technically available to sell since it is important to leave some capacity cushion to account for changes in customer behavior.** The results are shown in Figure 2 below (results are rounded to the nearest \$10).

Figure 2 – West Marin Hybrid Calculation

$$\frac{(\$10,215,600 \times 2\%) + \$2,358,000}{(864 \text{ SFE} \times 2\%) + 107 \text{ SFE}} = \frac{\$2,562,000}{124 \text{ SFE}} = \$20,660 \text{ per single family account}$$

¹¹ The projection of new single family home equivalents over the next 12 years is based on an assumption of 1 percent growth.

8.2.4. WEST MARIN FACILITY RESERVE CHARGES FOR OTHER RESIDENTIAL ACCOUNTS

The District has historically used relative water demands as the basis for the Facility Reserve Charge for other (non-single family) residential accounts. Water usage analysis was conducted for four types of residential accounts relative to single family account water usage (see Table 3). The proposed **Facility Reserve Charge for these residential types per dwelling unit (“d.u.”) is based on the relative amount of average water usage during peak months in the Novato Water service area.**

Table 6 - Proposed West Marin Residential Facility Reserve Charges

	Proposed FRC	Relative Water Usage¹
Single family detached residences and duplexes (each d.u)	\$20,660	1.0
Townhouses and condominiums (3 units or more) (each d.u)	\$14,050	0.68
Mobile home (each d.u.)	\$8,060	0.39
Apartment houses - 5 units or more, (each d.u.)	\$10,120	0.49
Accessory Dwelling Units (ADUs) on a parcel in undivided ownership ²	\$5,580	0.27

¹ Relative average water usage during peak months

² The applicability of Facility Reserve Charges to ADUs is subject to state law.

8.2.5. WEST MARIN FACILITY RESERVE CHARGES FOR NON-RESIDENTIAL ACCOUNTS

Facility Reserve Charge for non-residential accounts (commercial, institutions, industrial, or irrigation) are based **on the District’s projections of the account’s future average day peak month water demands, relative to 210 gallons per month¹².** For each 210 gallons per day (average day peak month), the District will charge the equivalent of a single-family account charge. In other words, if a commercial account is expected to use 420 gallons per day on average during peak months, that account would be charge two times the then current West Marin Facility Reserve Charge for single family accounts.

8.2.6. TRACKING WEST MARIN FACILITY RESERVE CHARGE REVENUE

When using the Incremental methodology, the District is responsible for reporting the use of the *Incremental portion* of the Facility Reserve Charge revenue to demonstrate that the revenue is being used to fund expansion-related capital projects (although not necessarily limited to the projects listed in Appendix E). Given that the available assets associated with the Buy-In approach have a value of \$204 thousand (2 percent of \$10.2 million) as compared to the \$2.4 million value of the planned

¹² 210 gallons per day is the approximate rate of water usage by single family dwellings in the West Marin service area during peak summer months.

Incremental assets, we conclude that 92 percent of the Facility Reserve Charge revenue should be used to pay for expansion-related projects.

For reference, Appendix A includes the statutory requirements for accounting for Facility Reserve Charges. In short, the District should deposit the Incremental portion of the Facility Reserve Charge revenue in a separate designated fund and only expend those funds on expansion-related capital projects. On an annual basis the District should report the annual Facility Reserve Charge revenue, the use of funds, the beginning and ending balance of the designated fund, and a description of the projects that were funded with the fees.

9. ACCESSORY DWELLING UNITS

Relatively recent state laws limit how Facility Reserve Charges can be applied to accessory dwelling units (ADUs) and Junior ADUs (JADUs). Under certain conditions described in California Government Code Section 65852.2, certain ADUs are exempted from capacity charges. The District should ensure that its Facility Reserve Charge procedures do not charge ADUs and JADUs that meet the capacity charge exemption requirements.

For ADUs and JADUs that are not exempt from capacity charges, the law allows for the assessment of capacity charges that does not exceed the estimated reasonable cost of providing the service and is of proportional benefit to the person or property being charged may be assessed. The law goes on to detail that the proportional benefit should be measured by either based on the size of the ADU (in square feet) or the number of its plumbing fixtures or drainage fixture units. Consistent with the **law's intent that the fee not exceed the reasonable cost of providing this service**, the proposed Facility Reserve Charges are based on actual data of historical water system capacity usage by similar accounts **within the District's service area**.

10. FACILITY RESERVE CHARGE UPDATES

It is recommended that the District annually adjust the Facility Reserve Charge for the effects of inflation using the CCI. The Facility Reserve Charges presented in Section 8.2.4 have been indexed to a CCI value of 12,556 (January 2022).

It is further recommended that the District formally update the Facility Reserve Charge calculation at least once every three to five years. Capital asset additions, depreciation, interest payments on debt, outstanding principal on debt, capital reserves, and the cost of new capacity all evolve over time and periodically updating the calculation will help ensure that new development is paying fair and proportionate share of water system costs.

APPENDICES

APPENDIX A – GOVERNMENT CODE SECTIONS 66013, 66016, 66022, AND 66023

APPENDIX B – NOVATO WATER AND RECYCLED WATER SYSTEM ASSET LIST

APPENDIX C – NOVATO WATER AND RECYCLED WATER CAPITAL SPENDING PROJECTIONS

APPENDIX D – WEST MARIN WATER ASSET LIST

APPENDIX E – WEST MARIN WATER CAPITAL SPENDING PROJECTIONS

APPENDIX A – GOVERNMENT CODE SECTIONS 66013, 66016, 66022, AND 66023

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 (f) of Section 116275 of the Health and Safety Code.

(3) "Capacity charge" means a charge for facilities in existence at the time a charge is imposed or charges for new facilities to be constructed in the future that are of benefit to the person or property being charged.

(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 that does not exceed the estimated reasonable cost of labor and materials for installation of those facilities.

(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) The provisions of subdivisions (c) and (d) shall only apply to capacity charges levied pursuant to this section.

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, 57004, 65104, 65456, 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.

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 and 66014.

66023. (a) Any person may request an audit in order to determine whether any fee or charge levied by a local agency exceeds the amount reasonably necessary to cover the cost of any product or service provided by the local agency. If a person makes that request, the legislative body of the local agency may retain an independent auditor to conduct an audit to determine whether the fee or charge is reasonable.

(b) Any costs incurred by a local agency in having an audit conducted by an independent auditor pursuant to subdivision (a) may be recovered from the person who requests the audit.

(c) Any audit conducted by an independent auditor to determine whether a fee or charge levied by a local agency exceeds the amount reasonably necessary to cover the cost of providing the product or service shall conform to generally accepted auditing standards.

(d) The procedures specified in this section shall be alternative and in addition to those specified in Section 54985.

(e) The Legislature finds and declares that oversight of local agency fees is a matter of statewide interest and concern. It is, therefore, the intent of the Legislature that this chapter shall supersede all conflicting local laws and shall apply in charter cities.

(f) This section shall not be construed as granting any additional authority to any local agency to levy any fee or charge which is not otherwise authorized by another provision of law, nor shall its provisions be construed as granting authority to any local agency to levy a new fee or charge when other provisions of law specifically prohibit the levy of a fee or charge.

**North Marin Water District
Asset Listing
As of July 31, 2022
Novato Service Area & Recycled Water**

System #	Description	Acquisition Date	Acquired Value	Estimated Life	Remaining Life	Estimated	
						Replacement Cost	RCNLD
000001	NEW SERVICES - FY84/85	6/1/1985	\$78,168	50	13	\$233,955	\$60,800
000003	STORAGE FACILITIES	7/1/1974	\$2,508,868	50	2	\$15,594,167	\$3,898,500
000004	NEW SERV. & DCV FY 85/86	6/1/1986	\$45,553	50	14	\$133,166	\$37,300
000007	NEW SERVICES - FY 83/84	6/1/1984	\$46,569	50	12	\$141,028	\$35,300
000008	NEW SERVICES & DCV FY 87/88	6/1/1988	\$46,873	50	16	\$130,231	\$41,700
000009	NEW SERVICES & DCV FY 86/87	6/1/1987	\$51,666	50	15	\$147,231	\$44,200
000010	ATHERTON TANK	6/1/1973	\$428,363	50	1	\$2,838,167	\$709,500
000013	STAFFORD DAM	8/1/1961	\$609,084	99	38	\$9,028,789	\$3,465,600
000014	HAMILTON FIELD PROJECT	8/1/1999	\$1,547,981	50	27	\$3,207,749	\$1,732,200
000015	WESTERN OAKS UNIT 5A	1/1/1990	\$122,544	50	18	\$325,150	\$117,100
000016	MARIN GLEN	5/1/1989	\$122,026	50	17	\$331,983	\$112,900
000017	WESTERN OAKS 5B	2/1/1990	\$54,124	50	18	\$143,608	\$51,700
000018	LYNWOOD TANK #2	6/1/1963	\$57,570	50	0	\$802,240	\$200,600
000019	QUAIL HOLLOW UNIT 2	4/1/1990	\$72,660	50	18	\$192,791	\$69,400
000020	NEW SERVICES/DCV FY 89/90	6/1/1990	\$13,129	50	18	\$34,836	\$12,500
000021	PARTRIDGE KNOLLS UNIT 4	6/1/1990	\$72,367	50	18	\$192,013	\$69,100
000022	HILLSIDE PARK UNIT 3	5/1/1990	\$449,758	50	18	\$1,193,356	\$429,600
000023	NORMAN DRIVE TANK	1/1/1951	\$51,327	50	0	\$1,186,802	\$296,700
000024	PARTRIDGE KNOLLS UNIT 5	6/1/1990	\$36,555	50	18	\$96,993	\$34,900
000025	PACHECO RANCH ESTATES UNIT 4	12/1/1988	\$30,977	50	16	\$86,065	\$27,500
000026	PARTRIDGE KNOLLS UNIT 3	6/1/1990	\$28,749	50	18	\$76,281	\$27,500
000027	PACHECO RANCH ESTATES UNIT 3	12/1/1988	\$47,528	50	16	\$132,053	\$42,300
000030	CHOPRA RESIDENCE	10/1/1999	\$28,382	50	27	\$58,813	\$31,800
000031	SOMERSET PLACE WEST	11/1/1990	\$17,469	50	18	\$46,350	\$16,700
000032	WILSON AVE PRESSURE CONVERSION	9/1/1987	\$1,818	50	15	\$5,180	\$1,600
000033	XTRA ROOM MINI STORAGE	11/1/1999	\$19,741	50	27	\$40,907	\$22,100
000034	RAGO LAND DIVISION	11/1/1999	\$16,680	50	27	\$34,564	\$18,700
000035	OAK CREEK CONDOMINIUMS	3/1/1991	\$35,063	50	19	\$91,052	\$34,600
000036	DIABLO PLAZA	10/1/1999	\$21,541	50	27	\$44,638	\$24,100
000037	STAFFORD DAM PROJECTS	4/1/1985	\$147,327	76	39	\$440,947	\$226,300
000038	DIEGO SUBDIVISION	1/1/1989	\$12,396	50	17	\$33,723	\$11,500
000039	INDIAN HILLS SUBDIVISION	4/1/1985	\$115,809	50	13	\$346,615	\$90,100
000041	COUNTRY GARDEN MANOR	9/1/1999	\$28,394	50	27	\$58,838	\$31,800
000042	SPILLWAY BRIDGE REPLACEMENT	6/1/1986	\$19,484	75	39	\$56,958	\$29,600
000043	LYNWOOD SQUARE	8/1/1990	\$17,366	50	18	\$46,079	\$16,600
000044	NOVATO BUSINESS CENTER	3/1/1990	\$25,925	50	18	\$68,787	\$24,800
000045	SAN MARIN HIGH FIRE HYDRANT	12/1/1999	\$8,767	50	27	\$18,168	\$9,800
000046	DIGITAL PLAZA	11/1/1990	\$37,642	50	18	\$99,878	\$36,000
000047	MARIN GOLF & C.C. ESTATES	4/1/1985	\$77,116	50	13	\$230,807	\$60,000
000048	ERICA CT SUBDIVISION	9/1/1990	\$35,558	50	18	\$94,346	\$34,000
000049	BEATTIE LANE DIVISION OF LAND	5/1/1989	\$8,371	50	17	\$22,774	\$7,700
000052	BUCKELEW HOUSE	1/1/1989	\$14,743	50	17	\$40,109	\$13,600
000053	MERRYHILL COUNTRY SCHOOL	12/1/1988	\$16,707	50	16	\$46,418	\$14,900
000054	ROWLAND PLAZA COMMON AREA IRRG	8/1/1990	\$4,949	50	18	\$13,131	\$4,700
000055	REDWOOD CROSSING	6/1/1990	\$15,986	50	18	\$42,416	\$15,300
000056	REBELO RANCH UNIT II	8/1/1990	\$162,011	50	18	\$429,868	\$154,800
000057	NOVATO BLVD APTS-BAUER	8/31/1990	\$6,936	50	18	\$18,402	\$6,600
000058	ZANCO SUBDIVISION	9/1/1990	\$11,297	50	18	\$29,974	\$10,800
000059	ROWLAND PLAZA-LOT 2 CHEVRON	2/1/1990	\$7,938	50	18	\$21,061	\$7,600
000060	BIRKO ADVERTISING PH II	2/1/1990	\$1,062	50	18	\$2,817	\$1,000
000061	SUTRO AVE LAND DIVISION	2/1/1990	\$11,814	50	18	\$31,346	\$11,300
000062	HARBOR DR HYD & WTR SVC	9/1/2005	\$14,263	50	33	\$24,050	\$15,900
000063	CARLS JR. RESTAURANT	6/1/1990	\$16,941	50	18	\$44,951	\$16,200
000064	ROWLAND PLAZA OFFICES	8/1/1990	\$15,319	50	18	\$40,647	\$14,600
000065	IGNACIO IND PARK LOT 144	6/1/1985	\$39,282	50	13	\$117,569	\$30,600
000066	WOODHILL WEST SUBDIVISION	6/1/1985	\$39,385	50	13	\$117,877	\$30,600
000067	NOVATO SELF STORAGE	1/1/1985	\$36,441	50	13	\$109,066	\$28,400
000068	DEER PARK RETIREMENT RESIDENCE	1/1/1990	\$38,524	50	18	\$102,217	\$36,800
000069	BEAR CREEK RD LAND DIVISION	4/1/1990	\$20,617	50	18	\$54,703	\$19,700
000070	MARIN GOLF & C.C. EST #1	4/1/1985	\$36,905	50	13	\$110,455	\$28,700
000071	THIRD STREET TRIPLEX	6/1/1990	\$3,804	50	18	\$10,095	\$3,600
000072	LARSON SUBDIVISION	1/1/1985	\$28,762	50	13	\$86,084	\$22,400
000074	IGNACIO INDUSTRIAL PARK#71/72	6/1/1990	\$12,000	50	18	\$31,841	\$11,500
000075	HIDDEN OAKS	9/1/1990	\$88,943	50	18	\$235,995	\$85,000
000076	Rosewood Subdivision-Lots 7,8,9,12	9/1/1999	\$7,170	50	27	\$14,858	\$8,000
000077	ATHERTON AVE LAND DIV-BENSON	2/1/1989	\$19,779	50	17	\$53,812	\$18,300
000078	MCCLAY RD LAND DIVISION	4/1/1990	\$16,464	50	18	\$43,684	\$15,700
000079	LAURIE DR LAND DIVISION	10/1/1991	\$2,726	50	19	\$7,078	\$2,700
000080	VITARAZI OFFICE COMPLEX	1/1/1985	\$22,946	50	13	\$68,678	\$17,900
000081	DELONG INDUSTRIAL PARK	6/1/1990	\$19,099	50	18	\$50,675	\$18,200
000082	NEW SERVICES/DCV FY 88/89	6/1/1989	\$18,548	50	17	\$50,461	\$17,200
000083	OLIVE GARDENS	6/1/1985	\$22,292	50	13	\$66,718	\$17,300

**North Marin Water District
Asset Listing
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						Estimated	
000084	STAFFORD OUTLET FACILITIES	4/1/1985	\$16,194	76	39	\$48,468	\$24,900
000086	AIR CONDITIONING SYSTEM	5/1/1990	\$18,340	35	3	\$48,662	\$12,200
000087	SHIELDS SUBDIVISION	12/1/1988	\$4,194	50	16	\$11,652	\$3,700
000088	SAN MARIN SHOPPING CENTER	4/1/1985	\$18,077	50	13	\$54,105	\$14,100
000090	SINGLE SVC-1901 NOVATO BLVD	3/1/1993	\$2,303	50	21	\$5,550	\$2,300
000093	SUTRO VALLEY	6/1/1985	\$17,668	50	13	\$52,879	\$13,700
000094	CEDAR CREEK CONDOMINIUMS	1/1/1985	\$16,321	50	13	\$48,847	\$12,700
000095	MCCLAY ROAD STUBOUT	9/1/1993	\$3,038	50	21	\$7,320	\$3,100
000097	KITCHEN/OFFICE REMODEL	6/1/1991	\$5,220	35	4	\$13,556	\$3,400
000099	Upgr to 1-1/2	11/1/1991	\$1,375	50	19	\$3,571	\$1,400
000100	SCHOOL RD LAND DIVISION	4/1/1985	\$16,974	50	13	\$50,803	\$13,200
000101	IGNACIO IND PARK LOT 148	6/1/1985	\$15,573	50	13	\$46,611	\$12,100
000103	ST ANTHONY'S CHURCH	4/1/1985	\$14,966	50	13	\$44,793	\$11,600
000104	HARKLE RD REPLACEMENT	4/1/1985	\$15,818	50	13	\$47,344	\$12,300
000105	IGNACIO IND PK LOT 64	1/1/1985	\$14,321	50	13	\$42,862	\$11,100
000109	SAN MARIN PUMP MOTOR	6/1/1985	\$13,353	50	13	\$39,966	\$10,400
000110	WOODSIDE OFFICE DEVELOPMENT	11/1/2004	\$165,081	50	32	\$291,312	\$186,400
000111	SAN MARIN PUMP STA. IMPRVMTS	4/1/1985	\$14,106	50	13	\$42,219	\$11,000
000112	NOVATO BLVD LAND DIV-KASTEN	1/1/1989	\$12,892	50	17	\$35,074	\$11,900
000113	REDWOOD BLVD COMM'L BLDG	1/1/1985	\$11,257	50	13	\$33,691	\$8,800
000114	STAFFORD LAKE BOAT RAMP	6/1/1986	\$2,326	25	0	\$6,799	\$1,700
000115	IGNACIO IND PARK LOT 56	6/1/1985	\$12,697	50	13	\$38,002	\$9,900
000116	TELEPHONE SYSTEM	2/1/2004	\$44,299	10	0	\$78,173	\$19,500
000117	TAMALPAIS SUBDIVISION	12/1/2006	\$440,644	50	34	\$714,013	\$485,500
000118	OLIVE AVE COMM'L BLDG	4/1/1985	\$11,404	50	13	\$34,132	\$8,900
000119	ENERGY CONSERVATION	6/1/1985	\$10,772	50	13	\$32,239	\$8,400
000121	BACKHOE #77	10/1/2004	\$74,485	10	0	\$131,441	\$32,900
000122	KENTUCKY FRIED CHICKEN	6/1/1990	\$1,850	50	18	\$4,909	\$1,800
000123	ATHERTON TANK-ALTITUDE VALVE	9/1/1988	\$74,267	50	16	\$206,343	\$66,000
000124	Hamilton Field Ph2 St2	2/1/2004	\$188,045	50	32	\$331,836	\$212,400
000125	CHASE ST LAND DIVISION	6/1/1991	\$1,985	50	19	\$5,155	\$2,000
000126	ENTRADA DRIVE - NOVATO MARKET	4/1/1985	\$9,443	50	13	\$28,264	\$7,300
000127	INDIAN VLY RD LAND DIV	1/1/1985	\$9,293	50	13	\$27,814	\$7,200
000128	MAUCH SUBDIVISION UNIT 2	1/1/1985	\$9,892	50	13	\$29,606	\$7,700
000129	FORREST RD LAND DIVISION	4/1/1985	\$8,713	50	13	\$26,077	\$6,800
000130	SUTRO AVE LAND DIVISION	3/1/1991	\$3,918	50	19	\$10,174	\$3,900
000131	WILD HORSE VALLEY DR L/D	9/1/1991	\$2,955	50	19	\$7,674	\$2,900
000132	EUCALYPTUS COURT	4/1/1985	\$9,586	50	13	\$28,691	\$7,500
000134	Eucalyptus Ave Land Division	11/1/1996	\$4,500	50	24	\$10,054	\$4,800
000135	HAYDEN DRIVE PUMP STATION	6/1/1985	\$7,151	50	13	\$21,403	\$5,600
000136	NORTH BAY CENTER	6/1/1990	\$47,661	50	18	\$126,459	\$45,500
000137	NOVATO HUMAN NEEDS CENTER	6/1/1985	\$8,293	50	13	\$24,820	\$6,500
000138	HOEKMANN LAND DIVISION	4/1/1985	\$8,999	50	13	\$26,935	\$7,000
000139	GARNER DRIVE RELOC	4/1/1985	\$8,131	50	13	\$24,336	\$6,300
000140	LYNWOOD P/S CONTROL VALVE	6/1/1985	\$8,132	50	13	\$24,338	\$6,300
000142	TRUMBULL MANSION RETREAT CTR	4/1/1990	\$8,006	50	18	\$21,244	\$7,600
000143	LAUREL AVE EXTENSION	1/1/1985	\$7,447	50	13	\$22,288	\$5,800
000144	SAN MARIN P/S CONTROL VALVE	6/1/1985	\$7,474	50	13	\$22,370	\$5,800
000145	VERRISIMO VALLEY HYDRANT	4/1/1985	\$7,430	50	13	\$22,239	\$5,800
000147	116 ATHERTON OAKS-UPGR TO 1	9/1/1991	\$965	1	0	\$2,506	\$600
000148	CHANNEL DRIVE MAIN EXTENSION	11/1/2006	\$110,867	50	34	\$179,647	\$122,200
000149	BAHIA GARDENS HYDRANT	4/1/1985	\$5,783	50	13	\$17,309	\$4,500
000150	Redwood Landfill, Inc.	2/1/2002	\$157,016	50	30	\$301,532	\$180,900
000151	UPGR TO 1	10/1/1992	\$294	1	0	\$742	\$200
000152	CINEMA II ADDITIONS	4/1/1985	\$4,697	50	13	\$14,057	\$3,700
000153	STASIA CT HYDRANT/WATER SVC	11/1/2004	\$70,398	50	32	\$124,229	\$79,500
000154	OLIVE GARDERN RESTAURANT	6/1/1993	\$4,816	50	21	\$11,607	\$4,900
000157	SERVER RACK ,ENCLOSURE,BACKUP SYS	12/1/2006	\$13,626	10	0	\$22,080	\$5,500
000159	UPGR TO 1	11/1/1991	\$1,316	50	19	\$3,417	\$1,300
000160	NOVATO BLVD FIRE HYDRANT	4/1/1985	\$4,609	50	13	\$13,795	\$3,600
000161	16 ANDREAS CT-UPGR METER TO 1	9/1/1992	\$515	1	0	\$1,297	\$300
000162	JENNIFER LANE LAND DIVISION	4/1/1985	\$4,285	50	13	\$12,824	\$3,300
000163	REDWOOD GROVE TOWNHOUSES	1/1/1985	\$3,299	50	13	\$9,874	\$2,600
000165	RED LOBSTER RESTAURANT	6/1/1993	\$6,142	50	21	\$14,802	\$6,200
000166	UPGR TO 1	4/1/1992	\$1,200	50	20	\$3,022	\$1,200
000167	TALBOT ESTATES	6/1/1985	\$4,786	50	13	\$14,324	\$3,700
000168	IGNACIO VALLEY	4/1/1985	\$3,363	50	13	\$10,065	\$2,600
000169	STAFF TP.NOISE REDCTN DUCTING	6/1/1986	\$682	20	0	\$1,994	\$500
000170	DEER ISLAND SELF STORAGE	12/1/2006	\$147,292	50	34	\$238,670	\$162,300
000171	SIMMONS LANE LAND DIVISION	4/1/1992	\$4,372	50	20	\$11,011	\$4,400
000173	VINEYARD ROAD LAND DIVISION	6/1/1989	\$13,568	50	17	\$36,913	\$12,600
000174	ATHERTON RESERVOIR-TANK DRAIN	9/1/1988	\$28,211	50	16	\$78,380	\$25,100
000176	SECOND STREET OFFICE BUILDING	2/1/1989	\$3,704	50	17	\$10,077	\$3,400

**North Marin Water District
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						Estimated	
000177	TARGET STORE-VINTAGE OAKS	9/1/1993	\$4,497	50	21	\$10,836	\$4,600
000178	HALF MOON TANK FENCE	6/1/1985	\$3,229	50	13	\$9,665	\$2,500
000179	HAMILTON MEADOWS	8/1/2006	\$628,314	50	34	\$1,018,111	\$692,300
000180	IOLANTHUS AVE. EXTENSION	6/1/1990	\$14,305	50	18	\$37,956	\$13,700
000182	WONDERWARE	10/1/2005	\$7,863	5	0	\$13,259	\$3,300
000185	San Pablo Subdivision	12/1/2005	\$73,136	50	33	\$123,321	\$81,400
000187	NOVATO BUILDERS SQUARE HYD INSTALL	2/1/2006	\$26,943	50	34	\$43,658	\$29,700
000189	VALVE TURNING MACHINE	10/1/2005	\$11,233	10	0	\$18,941	\$4,700
000190	35 SAN ANDREAS CT	11/1/1992	\$1,257	50	20	\$3,165	\$1,300
000191	WILD HORSE TANK SITE	6/1/1989	\$82,993	50	17	\$225,791	\$76,800
000192	SINGLE SVC-1929A NOVATO BLVD	3/1/1993	\$921	1	0	\$2,219	\$600
000193	Pimentel Court (#10) Fire Service	2/1/2005	\$16,442	50	33	\$27,725	\$18,300
000194	UPGR TO 1	3/1/1992	\$2,089	50	20	\$5,261	\$2,100
000195	BURGER KING-VINTAGE OAKS	6/1/1993	\$4,263	50	21	\$10,274	\$4,300
000196	Jensen Land Division	2/1/2005	\$15,448	50	33	\$26,048	\$17,200
000197	OAK RIDGE ESTATES	10/1/2006	\$142,937	50	34	\$231,613	\$157,500
000199	INSTALL 1	3/1/1992	\$2,136	50	20	\$5,381	\$2,200
000200	UPGR TO 1	9/1/1993	\$232	1	0	\$559	\$100
000201	SEVENTH ST LAND DIVISION	1/1/1985	\$1,885	50	13	\$5,641	\$1,500
000202	BERNARDI/LOFRANO LAND DIVISION	11/1/2004	\$25,878	50	32	\$45,667	\$29,200
000204	OLIVE SCHOOL FIRE HYDRANT	1/1/2006	\$32,512	50	34	\$52,682	\$35,800
000206	FIG TREE LAND LAND DIVISION	8/1/1992	\$1,821	50	20	\$4,586	\$1,800
000209	RAMMER	9/1/2006	\$3,016	5	0	\$4,887	\$1,200
000210	2030 HATCH RD-UPGR TO 1	6/1/1993	\$1,374	50	21	\$3,311	\$1,400
000211	SAN MARIN PUMP STA. STOR FAC	4/1/1985	\$1,170	50	13	\$3,503	\$900
000212	SVC-LIVING HISTORY CENTRE	9/1/1993	\$881	1	0	\$2,122	\$500
000213	EAST NOVATO COMM'L PROJECT	1/1/1985	\$2,339	50	13	\$7,002	\$1,800
000214	UPGR SVC TO 1	11/1/1991	\$2,380	50	19	\$6,180	\$2,300
000215	WINGED FOOT P/S PUMP REPL	6/1/1985	\$2,285	50	13	\$6,838	\$1,800
000217	SAFEWAY EXPANSION PROJECT	1/1/2006	\$27,597	50	34	\$44,717	\$30,400
000218	PIPE LOCATOR	9/1/2006	\$2,757	5	0	\$4,468	\$1,100
000220	NEW BEGINNINGS CENTER	1/1/2006	\$25,172	50	34	\$40,788	\$27,700
000221	WATER TANK W/TRAILER #79	10/1/2005	\$6,457	10	0	\$10,888	\$2,700
000222	BAHIA P/S METER	6/1/1985	\$999	1	0	\$2,991	\$700
000224	Lynwood School FH-2004	1/1/2006	\$21,958	50	34	\$35,580	\$24,200
000226	TAMALPAIS AVE L/D	1/1/2005	\$13,086	50	33	\$22,066	\$14,600
000227	IGNACIO IND PARK LOT 150/151	6/1/1985	\$1,753	50	13	\$5,247	\$1,400
000228	CARMEL HTS LAND DIVISION	4/1/1985	\$838	1	0	\$2,507	\$600
000229	TANK FLOAT STILLING WELLS	6/1/1986	\$2,131	50	14	\$6,230	\$1,700
000231	BAND SAW	12/1/2006	\$2,547	5	0	\$4,127	\$1,000
000232	NOVATO SKATE PARK	10/1/2006	\$64,678	50	34	\$104,803	\$71,300
000233	PAMARON WAY FIRE SERVICE	10/1/2006	\$64,552	50	34	\$104,599	\$71,100
000234	TANK CATH. PROT. TRAINING	9/1/1987	\$2,900	50	15	\$8,264	\$2,500
000235	RAISE CONT ABOVE FLOOD-DAVIES	9/1/1987	\$3,936	50	15	\$11,216	\$3,400
000237	COOPER LAND DIVISION	9/1/2006	\$20,341	50	34	\$32,960	\$22,400
000238	MARIN COUNTRY CLUB CLUBHOUSE	8/1/2006	\$162,876	50	34	\$263,921	\$179,500
000239	1923 NOVATO BLVD	11/1/1992	\$763	1	0	\$1,921	\$500
000241	MORNING STAR FARM	1/1/2006	\$12,549	50	34	\$20,335	\$13,800
000242	QUANTI TRAY 2000 SYSTEM	9/1/2004	\$3,461	5	0	\$6,108	\$1,500
000243	LYNWOOD PUMP MOTOR	6/1/1985	\$1,718	25	0	\$5,143	\$1,300
000244	1.5HP DIAPHRAGM PUMP T	12/1/2006	\$1,760	5	0	\$2,852	\$700
000245	OPTIPLEX GX620 PC	11/1/2006	\$1,167	5	0	\$1,890	\$500
000246	SOIL RESISTANCE METER (BLUE CASE)	9/1/2005	\$980	1	0	\$1,653	\$400
000247	AUTO DIAG SCANNER SOFTWARE	12/1/2006	\$1,467	5	0	\$2,377	\$600
000248	FINNEGAN'S RESTAURANT	9/1/2006	\$14,521	50	34	\$23,530	\$16,000
000251	REDWOOD BLVD FIRE SERVICE	12/1/2004	\$15,087	50	32	\$26,623	\$17,000
000253	MARIN COUNTRY CLUB IRRIGATION	9/1/2006	\$13,333	50	34	\$21,604	\$14,700
000254	LAPTOP PC	12/1/2006	\$1,325	5	0	\$2,147	\$500
000255	LAPTOP PC	12/1/2006	\$1,325	5	0	\$2,147	\$500
000261	METAL CUTTING SAW	12/1/2006	\$1,171	5	0	\$1,898	\$500
000264	SIMMONS LANE FIRE HYDRANT	10/1/2006	\$27,125	50	34	\$43,954	\$29,900
000266	FIRST ST MIXED USE PROJECT	11/1/2006	\$7,698	50	34	\$12,473	\$8,500
000267	SPARE PILOT VALVE CNT-TRUMBULL	9/1/1987	\$926	1	0	\$2,639	\$700
000268	WASTE OIL TANK	12/1/2006	\$942	1	0	\$1,526	\$400
000269	DIGITAL LASER COPIER	12/1/2006	\$916	1	0	\$1,485	\$400
000274	IGNACIO BLVD MED-XERISCAPE DEM	3/1/1993	\$774	1	0	\$1,865	\$500
000275	DAVIDSON ST. LAND DIVISION - FALLAH	10/1/2006	\$10,292	50	34	\$16,677	\$11,300
000277	Vineyard Road Hydrant & Water Service	8/1/2004	\$13,954	50	32	\$24,624	\$15,800
000279	881 GRANT AVE-AVALAR/CPS	8/1/2006	\$20,825	50	34	\$33,744	\$22,900
000280	BOARD ROOM TABLES (4)	8/1/2006	\$1,290	5	0	\$2,090	\$500
000282	SVC UPGRADE-5 ANTON WAY	7/1/1991	\$943	1	0	\$2,450	\$600
000284	Buck Center Tank	1/1/2003	\$233,997	50	31	\$438,894	\$272,100
000285	Inspirations @ Chapel Hill	1/1/2004	\$15,502	50	32	\$27,356	\$17,500

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000286	NOVATO SENIOR VILLAGE	1/1/2004	\$3,430	50	32	\$6,053	\$3,900
000287	Tranquility Phase II	1/1/2004	\$4,846	50	32	\$8,552	\$5,500
000288	FRANK JR LANE HYDRANT/SVC	1/1/2004	\$34,673	50	32	\$61,187	\$39,200
000290	Southgate Subdivision PhIII	1/1/2003	\$124,993	50	31	\$234,442	\$145,400
000291	Meter-Harris Hill	9/1/2000	\$90	1	0	\$182	\$0
000292	City Hall Fire Sprinkling System	1/1/2003	\$18,459	50	31	\$34,623	\$21,500
000293	Brookside Meadows	1/1/2003	\$272,297	50	31	\$510,731	\$316,700
000295	Buck Center	1/1/2003	\$912,204	50	31	\$1,710,969	\$1,060,800
000296	Novato Community Hospital	1/1/2003	\$238,746	50	31	\$447,803	\$277,600
000297	Molinelli Subdivision (Vineyard Road)	11/1/2002	\$8,115	50	30	\$15,585	\$9,400
000298	Citibank Fire Service	1/1/2001	\$11,916	50	29	\$23,620	\$13,700
000303	SAN MARIN P/S SUB DRAIN	6/1/1985	\$91	20	0	\$272	\$100
000305	LEVEL W/TRIPOD	11/1/2003	\$1,335	5	0	\$2,504	\$600
000307	BOOKCASES (8)	2/1/2000	\$878	5	0	\$1,771	\$400
000309	ABRASIVE BLASTING CABINET	6/1/2004	\$1,144	5	0	\$2,018	\$500
000312	PROCESS CALIBRATOR FLUKE 719100G	6/1/2006	\$1,741	5	0	\$2,821	\$700
000314	Landscaping-S. Novato Blvd	6/1/2001	\$2,653	50	29	\$5,258	\$3,000
000315	DIABLO & CENTER REL 12" WTR FAC	6/1/2006	\$37,032	50	34	\$60,005	\$40,800
000316	UPSIZE/REL SVC-TRUMBULL	6/1/2001	\$2,950	50	29	\$5,847	\$3,400
000319	CEDARS OF MARIN-UPGR TO 1" SVC	4/1/2003	\$2,625	50	31	\$4,923	\$3,100
000320	SINALOA MIDDLE SCHOOL HYDRANT	4/1/2004	\$8,884	50	32	\$15,677	\$10,000
000322	NOVATO SANITARY DISTRICT ADMIN BLDG	4/1/2006	\$13,722	50	34	\$22,235	\$15,100
000325	VINEYARD RD LAND DIVISION-HARREUS	2/1/2000	\$6,346	50	28	\$12,808	\$7,200
000326	HATCH RD FIRE HYDRANT	2/1/1999	\$7,760	50	27	\$16,080	\$8,700
000328	Upgr Svc/Hyd-7 Equestrian	6/1/2001	\$2,542	50	29	\$5,040	\$2,900
000329	FIRST ST CT APARTMENTS	6/1/2005	\$27,337	50	33	\$46,095	\$30,400
000330	HYDRANT PRESSURE RECORDER & SOFT	11/1/2000	\$1,758	7	0	\$3,547	\$900
000332	Irrigation Mtr-S. Novato Blvd	6/1/2001	\$3,198	50	29	\$6,339	\$3,700
000333	San Ramon School Fire Hydrant	10/1/2000	\$6,300	50	28	\$12,714	\$7,100
000335	CANYON RD HYDRANT	11/1/2003	\$14,905	7	0	\$27,957	\$7,000
000336	SILVA RANCH LAND DIVISION	4/1/2001	\$3,877	50	29	\$7,684	\$4,500
000339	METER VAULT GRATE-CHERRY HILL	6/1/1990	\$541	10	0	\$1,436	\$400
000340	ANALYZER,POWER QUALITY	6/1/2006	\$4,121	5	0	\$6,678	\$1,700
000342	6X10 CROSSING PLATE	9/1/2003	\$820	5	0	\$1,539	\$400
000344	AUTOCLAVE 220V POWER SUPPLY	6/1/1990	\$1,493	35	3	\$3,961	\$1,000
000346	540 Wilson-Reloc/Upgr Svc	6/1/2001	\$5,346	50	29	\$10,598	\$6,100
000347	BIO MARIN	4/1/2001	\$4,249	50	29	\$8,422	\$4,900
000350	NORTH MARIN VETERINERIAN HOSPITAL	10/1/1998	\$3,921	50	26	\$8,317	\$4,300
000351	Norton Avenue Extension	9/1/2000	\$18,864	50	28	\$38,072	\$21,300
000352	REMODEL PUMP MAINTENANCE SHOP	9/1/1987	\$439	1	0	\$1,250	\$300
000354	WILD HORSE VLY P/S CAP. UPGRD	6/1/1985	\$427	1	0	\$1,279	\$300
000355	100 Bryan Dr. Hyd & Wtr Svc Upgrade	7/1/2006	\$11,243	50	34	\$18,218	\$12,400
000356	HYDRAULIC PUMP PLASTIC SHORING	7/1/2006	\$849	1	0	\$1,376	\$300
000357	HYDRAULIC PUMP PLASTIC SHORING	7/1/2006	\$849	1	0	\$1,376	\$300
000358	STORAGE CONTAINER	2/1/1999	\$2,890	10	0	\$5,990	\$1,500
000359	MICROSCOPE W/CAMERA	6/1/2005	\$9,844	10	0	\$16,598	\$4,100
000360	2215 Oak Knoll Road	5/1/2002	\$3,252	50	30	\$6,246	\$3,700
000361	ATHERTON AVE STUBOUT	4/1/2001	\$4,987	50	29	\$9,885	\$5,700
000362	PIPELINE SECURITY ACCESS	7/1/1996	\$2,152	50	24	\$4,808	\$2,300
000364	NAVE UNIT 1-LOT 1 SUBDIVISION	5/1/2006	\$9,729	50	34	\$15,764	\$10,700
000365	WORKSTATION	10/1/2000	\$1,083	10	0	\$2,185	\$500
000366	DCV ASSEMBLIES - FY 83/84	6/1/1984	\$604	1	0	\$1,828	\$500
000367	Deer Island Ln Fire Hydrant	9/1/2000	\$17,113	50	28	\$34,538	\$19,300
000370	REFRIGERATOR	5/1/2005	\$1,330	10	0	\$2,242	\$600
000371	Oak Avenue Main Extension	4/1/2004	\$18,684	50	32	\$32,970	\$21,100
000372	Sun Lane Extension	1/1/1999	\$7,145	50	27	\$14,807	\$8,000
000373	Eucalyptus Avenue Land Division	9/1/1998	\$4,863	50	26	\$10,314	\$5,400
000375	Indian Valley Athletic Fields	1/1/2000	\$7,840	50	28	\$15,823	\$8,900
000379	Gnoss Field Fireline Relocation	11/1/2002	\$42,130	50	30	\$80,906	\$48,500
000380	VIRGINIA AVE LAND DIVISION	1/1/1996	\$3,286	50	24	\$7,341	\$3,500
000382	LYNWOOD SCHOOL DAYCARE FIRE SVC	3/1/2005	\$6,096	50	33	\$10,280	\$6,800
000383	NEW SERVICE-875 ATHERTON AVE	9/1/1988	\$1,010	50	16	\$2,806	\$900
000385	NOVATO FIRE PROT DIST STATION #5	4/1/2006	\$34,808	50	34	\$56,403	\$38,400
000387	COMPRESSOR(SHOP)	2/1/2000	\$2,847	10	0	\$5,746	\$1,400
000388	Gnoss Field Fire Line Extension	2/1/2000	\$19,417	50	28	\$39,189	\$21,900
000391	Laptop Insperion 6400 tag #180	7/1/2006	\$1,171	5	0	\$1,898	\$500
000392	LATERAL - ATHERTON OAKS	6/1/1984	\$964	1	0	\$2,919	\$700
000394	NOVATO CREEK ENHANCEMENT PROJ	6/1/1989	\$135	10	0	\$367	\$100
000395	Oil Changers - Vintage Oaks	5/1/2001	\$4,951	50	29	\$9,815	\$5,700
000397	COURTYARD MARRIOTT	11/1/2000	\$53,115	50	28	\$107,200	\$60,000
000398	Men's Wearhouse-Vintage Oaks	12/1/1996	\$6,378	50	24	\$14,250	\$6,800
000399	Hamilton Service Center	2/1/2000	\$18,012	50	28	\$36,353	\$20,400
000400	Silva Land Division	5/1/2002	\$5,387	50	30	\$10,346	\$6,200

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000401	WORKSTATION	11/1/1998	\$1,128	10	0	\$2,392	\$600
000402	CREEKSIDE OFFICES	4/1/2006	\$37,474	50	34	\$60,722	\$41,300
000404	REPL EAGLE DR P.S. CONTROLS	6/1/1990	\$633	1	0	\$1,678	\$400
000406	Vineyard Road L/D (Colla)	6/1/1997	\$4,072	50	25	\$8,775	\$4,400
000408	684 Wilson Avenue - 2-1/2" Fire Svc	7/1/1996	\$3,570	50	24	\$7,976	\$3,800
000409	South Novato Blvd 2" Svc	3/1/2002	\$5,175	50	30	\$9,938	\$6,000
000410	SAN MARIN PUMP HIGH WATER SYS	9/1/1987	\$1,612	50	15	\$4,594	\$1,400
000411	LYNWOOD PUMP HIGH WATER SYSTEM	9/1/1987	\$1,612	50	15	\$4,594	\$1,400
000412	OLIVE AVE APARTMENTS	12/1/1997	\$6,425	50	25	\$13,845	\$6,900
000413	UPGR TO 1	9/1/1993	\$1,416	50	21	\$3,411	\$1,400
000414	SKYLARK MOTEL ADDITION	12/1/2000	\$18,519	50	28	\$37,376	\$20,900
000415	RIDGE RD/HALF MOON P.S.FLOW METER	7/1/1996	\$4,534	25	0	\$10,130	\$2,500
000416	VILLAGE AT NOVATO PHASE 1	5/1/2006	\$15,874	50	34	\$25,721	\$17,500
000417	Hill Recreation Area 3" Meter	12/1/1996	\$6,481	50	24	\$14,479	\$6,900
000418	Scottsdale Marsh Median	6/1/2001	\$8,940	50	29	\$17,721	\$10,300
000422	MARIN PONTIAC/GMC	4/1/2001	\$8,229	50	29	\$16,313	\$9,500
000424	REPL VAULT/INST DRAIN-NORMAN	6/1/1990	\$7,505	50	18	\$19,913	\$7,200
000425	DECHLORINATION METERING DEVICE	11/1/1998	\$1,194	10	0	\$2,532	\$600
000426	Desk - was McMaster's (now Reed's)	1/1/1997	\$1,500	10	0	\$3,233	\$800
000428	GOLDEN EGG OMELETTE HOUSE	3/1/2006	\$15,090	50	34	\$24,451	\$16,600
000429	South Novato Blvd. Irrigation Meters	6/1/2000	\$11,437	50	28	\$23,082	\$12,900
000432	ENGINE DIAGNOSTIC SCANNER	8/1/2001	\$1,842	10	0	\$3,651	\$900
000433	Nunes Tank and Pump	11/1/1996	\$9,625	50	24	\$21,503	\$10,300
000436	Loma Verde Fire Hyd Extension	10/1/2002	\$16,402	50	30	\$31,498	\$18,900
000438	San Marin High Fire Svc	6/1/2001	\$11,235	50	29	\$22,271	\$12,900
000440	INSTALL DCV-BIG 4 RENTS	10/1/1992	\$388	1	0	\$977	\$200
000441	7X8 SHORING 7 Ft. Shore W 22-36 CYL	9/1/2003	\$2,779	5	0	\$5,212	\$1,300
000443	HAMILTON DRIVE FIRE SVC. (No. 114)	5/1/2004	\$13,125	50	32	\$23,161	\$14,800
000444	1024 6th Street Apartments	6/1/1997	\$6,428	50	25	\$13,852	\$6,900
000445	INDIAN VALLEY RD SUBDIVISION	3/1/1987	\$1,604	50	15	\$4,571	\$1,400
000446	74 Hamilton Drive Fire Service	5/1/2004	\$13,449	50	32	\$23,733	\$15,200
000447	DAM ACCELOGRAPH REPLACEMENTS	4/1/2006	\$3,735	7	0	\$6,052	\$1,500
000448	Marin Airpotter	2/1/2000	\$32,517	50	28	\$65,628	\$36,800
000449	ARMSTRONG GARDEN CENTER	12/1/2003	\$16,046	50	31	\$30,096	\$18,700
000450	Redwood Mobile Home Park	5/1/2001	\$8,895	50	29	\$17,631	\$10,200
000452	ANALYTICAL BALANCE SCALE	3/1/2005	\$2,352	5	0	\$3,966	\$1,000
000455	TRANQUILITY PH1	7/1/2003	\$10,266	50	31	\$19,256	\$11,900
000457	GPS RECEIVER - THALES	5/1/2006	\$1,582	5	0	\$2,563	\$600
000458	A and P Bekins	12/1/2000	\$26,472	50	28	\$53,428	\$29,900
000460	PUMP MAINT. SHOP BOOM SYSTEM	9/1/1987	\$3,053	35	0	\$8,701	\$2,200
000461	MACANDY RV STORAGE FIRE HYDRANT	8/1/2003	\$17,179	50	31	\$32,221	\$20,000
000462	6X10 TRAFFIC PLATE	3/1/2005	\$1,317	5	0	\$2,220	\$600
000464	VILLA ENTRADA	6/1/2006	\$187,212	50	34	\$303,356	\$206,300
000466	SUN LANE WATERLINE EXTENSION	5/1/2004	\$16,382	50	32	\$28,909	\$18,500
000469	GAGE LANE EXTENSION	2/1/1988	\$1,840	50	16	\$5,113	\$1,600
000470	METAL HATCH-BAHIA PUMP STATION	6/1/1984	\$2,117	50	12	\$6,411	\$1,600
000471	Turbidimeter	11/1/1998	\$2,991	10	0	\$6,344	\$1,600
000472	MURPHY CIRCLE RELOCATIONS	6/1/1986	\$1,165	50	14	\$3,404	\$1,000
000473	RICE LAND DIVISION	4/1/2005	\$48,112	50	33	\$81,127	\$53,500
000475	IHOP RESTAURANT (VINTAGE OAKS)	11/1/1995	\$7,767	50	23	\$17,824	\$8,200
000476	FUEL TANK MONITORING	9/1/1987	\$1,658	35	0	\$4,723	\$1,200
000477	CORNER DESK,PEDESTAL & CHAIR	7/1/1999	\$999	7	0	\$2,071	\$500
000478	HP DESIGNJET PLOTTER	9/1/2001	\$5,131	7	0	\$10,170	\$2,500
000479	Richardson Land Division	5/1/2002	\$11,029	50	30	\$21,180	\$12,700
000481	LYNWOOD SCHOOL HYDRANT	5/1/2005	\$18,427	50	33	\$31,072	\$20,500
000482	ATHERTON ESTATES	6/1/2006	\$221,979	50	34	\$359,691	\$244,600
000487	Vintage Oaks-Novato Toyota	4/1/2001	\$15,412	50	29	\$30,551	\$17,700
000488	LANHAM VILLAGE	3/1/1987	\$1,677	50	15	\$4,780	\$1,400
000489	CHLORINE ANALYZER & RECORDER	6/1/2000	\$3,776	10	0	\$7,622	\$1,900
000493	LANDSCAPE SAN MARIN PUMP STA.	9/1/1987	\$1,724	25	0	\$4,913	\$1,200
000495	HILL RD OFFICE/WAREHOUSE	4/1/2001	\$17,528	50	29	\$34,745	\$20,200
000498	LARSEN SUBDIVISION	1/1/2000	\$20,551	50	28	\$41,476	\$23,200
000499	PLEASANT VALLEY SCHOOL HYDRANTS	5/1/2005	\$21,801	50	33	\$36,761	\$24,300
000502	Thorsson Subdivision	9/1/2002	\$62,031	50	30	\$119,125	\$71,500
000504	Lu Sutton School Hydrant	5/1/2005	\$22,564	50	33	\$38,047	\$25,100
000505	NOVATO SINGLE SVC 97/98	10/1/1998	\$13,130	50	26	\$27,847	\$14,500
000506	VALLEY MEMORIAL PARK	2/1/1988	\$2,373	50	16	\$6,593	\$2,100
000514	Twin Creeks	10/1/2002	\$30,961	50	30	\$59,458	\$35,700
000515	SAN MARIN PRV STA. PRESSURE TR	6/1/1986	\$2,066	50	14	\$6,039	\$1,700
000516	ROWLAND PLAZA TELEMETRY TIE-IN	6/1/2000	\$23,120	50	28	\$46,661	\$26,100
000517	2002 15' ALUMINIM BOAT W/TRAILER	4/1/2003	\$2,666	10	0	\$5,001	\$1,300
000518	Convection Oven	6/1/1998	\$1,648	10	0	\$3,495	\$900
000519	BUILDING 503 FIRE SERVICE	3/1/2006	\$31,308	50	34	\$50,731	\$34,500

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000520	ADHESION TESTER (ORANGE CASE)	7/1/1998	\$1,330	10	0	\$2,820	\$700
000521	INDIAN OAKS SUBDIVISION	9/1/2001	\$75,937	50	29	\$150,525	\$87,300
000522	KEYS LANDING PARK	2/1/1988	\$2,751	50	16	\$7,644	\$2,400
000523	PACHECO AVE LAND DIV/BANYAI	2/1/1988	\$2,563	50	16	\$7,120	\$2,300
000525	OLOMPALI WATERLINE REPLACEMENT	7/1/2004	\$35,705	50	32	\$63,008	\$40,300
000526	INSIDE LIGHTING-LYNWOOD P.S.	6/1/1992	\$784	1	0	\$1,975	\$500
000529	VIRGINIA OAKS SUBDIVISION	5/1/2006	\$41,352	50	34	\$67,006	\$45,600
000532	KENDON LANE LAND DIVISION	3/1/1987	\$2,857	50	15	\$8,140	\$2,400
000533	Channel Drive Extension	12/1/2001	\$46,208	50	29	\$91,597	\$53,100
000534	YMCA CHILDCARE FACILITY FIRE SVC	5/1/2003	\$16,856	50	31	\$31,615	\$19,600
000535	Cherry Hill Looping	6/1/2001	\$25,917	50	29	\$51,373	\$29,800
000536	H LANE EXTENSION	5/1/1987	\$2,255	50	15	\$6,427	\$1,900
000537	SAN JOSE MIDDLE SCHOOL HYDRANT	3/1/2005	\$22,214	50	33	\$37,457	\$24,700
000538	YARD CNTRL PNL-HALF MOON TANK	9/1/1986	\$1,114	50	14	\$3,257	\$900
000539	Greystone Gardens	9/1/2002	\$86,190	50	30	\$165,520	\$99,300
000540	UPGR TO 1	2/1/1993	\$816	1	0	\$1,966	\$500
000542	IGNACIO IND PK LOT 56 PH III	1/1/1986	\$1,312	50	14	\$3,836	\$1,100
000543	Noah's Bagels & Peet's Coffee	10/1/1997	\$16,738	50	25	\$36,072	\$18,000
000544	REPL FIRE SVC-1565 HILL RD(CONV HOSP	7/1/1996	\$11,527	50	24	\$25,752	\$12,400
000545	HARRIS HILL LAND DIVISION	8/1/2000	\$31,580	50	28	\$63,736	\$35,700
000546	CHERRYHILL PIPELINE EXT	5/1/2006	\$43,804	50	34	\$70,979	\$48,300
000547	SAN MARIN PRV STA. RETAIN WALL	6/1/1990	\$4,218	50	18	\$11,192	\$4,000
000548	UPGR SVC TO 1	10/1/1993	\$653	1	0	\$1,573	\$400
000549	MCCLAY ROAD DIVISION OF LAND	3/1/1987	\$1,636	50	15	\$4,661	\$1,400
000550	DOLLHOUSES, TRAINS & MORE	4/1/2001	\$24,113	50	29	\$47,798	\$27,700
000552	Tresch Galleria	5/1/2000	\$17,623	50	28	\$35,568	\$19,900
000553	Indian Valley Rd Main Ext	6/1/2000	\$28,728	50	28	\$57,980	\$32,500
000555	Taco Bell	4/1/2003	\$25,179	50	31	\$47,227	\$29,300
000556	Dog Park @ O'Hair Park	6/1/2001	\$29,681	50	29	\$58,835	\$34,100
000557	DIGITAL TITRATOR	3/1/2005	\$2,573	5	0	\$4,339	\$1,100
000560	PIPE LOCATOR	3/1/2005	\$2,547	5	0	\$4,295	\$1,100
000562	CENTER RD LAND DIV - CAMPBELL	1/1/1986	\$2,751	75	39	\$8,043	\$4,200
000565	Novato Oaks Inn Restaurant	5/1/2002	\$20,524	50	30	\$39,415	\$23,600
000566	BACKFLOW PREVENTION SOFTWARE	7/1/2006	\$6,606	10	0	\$10,704	\$2,700
000569	BAY CANYON RD MAIN EXT	7/1/2003	\$23,548	50	31	\$44,167	\$27,400
000571	GREYSTONE GARDENS PH II	7/1/2004	\$50,608	50	32	\$89,306	\$57,200
000572	WESTRIDGE LANE FIRE HYDRANT	2/1/1988	\$4,697	50	16	\$13,049	\$4,200
000573	RANCHO SCHOOL HYDRANTS	5/1/2005	\$38,242	50	33	\$64,483	\$42,600
000574	BERKOV SUBDIVISION	7/1/2004	\$51,609	50	32	\$91,073	\$58,300
000577	1040 CALLE PASEO-UPGR TO 1	3/1/1994	\$1,095	50	22	\$2,542	\$1,100
000583	VINEYARD RD LAND DIVISION	3/1/1987	\$2,879	50	15	\$8,204	\$2,500
000585	NOVATO SEWAGE TRT PLANT PROJ	9/1/1987	\$3,447	50	15	\$9,823	\$2,900
000589	HILL ROAD LAND DIVISION	3/1/1987	\$3,320	50	15	\$9,461	\$2,800
000591	HAMILTON CHAPEL	7/1/2003	\$29,277	50	31	\$54,913	\$34,000
000592	McDonald's - Nave Lane	5/1/2001	\$26,459	50	29	\$52,448	\$30,400
000594	RED OLIVE PLAZA	5/1/1998	\$16,741	50	26	\$35,505	\$18,500
000595	HAMILTON TOWNHOMES	11/1/2000	\$260,893	50	28	\$526,548	\$294,900
000596	VINEYARD RD LAND DIV - WARD	2/1/1988	\$3,162	50	16	\$8,786	\$2,800
000597	Hamilton Park Office Warehouse	12/1/1996	\$28,751	50	24	\$64,231	\$30,800
000598	VIB PLATE	9/1/2003	\$9,195	5	0	\$17,246	\$4,300
000599	REPL/UPG WINGED FOOT RECTIFIER	9/1/1986	\$3,807	50	14	\$11,129	\$3,100
000600	NOVATO BLVD STUB-OUT	2/1/1988	\$5,114	50	16	\$14,209	\$4,500
000602	SULLIVAN LANE EXT (2	6/1/1986	\$2,692	50	14	\$7,869	\$2,200
000604	1625 Hill Rd-Upgr to RPP	6/1/1997	\$8,935	50	25	\$19,255	\$9,600
000605	OFFICE BUILDING WIRING	6/1/1984	\$5,827	35	0	\$17,646	\$4,400
000607	UPGR TO 1	2/1/1993	\$1,454	50	21	\$3,503	\$1,500
000608	PORTABLE WATER PUMP W/TRAILER 75	9/1/2003	\$10,000	5	0	\$18,756	\$4,700
000610	SOUTHGATE SUBDIVISION PH II	7/1/2003	\$33,445	50	31	\$62,730	\$38,900
000611	CORPORATION YARD FENCE	6/1/1990	\$9,280	35	3	\$24,623	\$6,200
000614	Marin Business Center	10/1/2002	\$70,621	50	30	\$135,621	\$81,400
000618	75 PACHECO CREEK DR-UPGR TO 1	3/1/1994	\$1,501	50	22	\$3,484	\$1,500
000619	HILL RD EXTENSION	2/1/1988	\$5,413	50	16	\$15,039	\$4,800
000620	REPL CREST TANK TRANSMITTER	6/1/1991	\$1,422	50	19	\$3,691	\$1,400
000621	OFFICE EXTERIOR DOORS	6/1/1990	\$9,617	35	3	\$25,517	\$6,400
000622	SOUTHGATE SUBDIVISION	9/1/2001	\$171,362	50	29	\$339,681	\$197,000
000624	ST ANTHONY'S CHURCH RECTORY	1/1/1990	\$6,948	50	18	\$18,436	\$6,600
000625	Creekwood Land Division	5/1/2002	\$35,122	50	30	\$67,447	\$40,500
000628	SYCAMORE GLADE	4/1/1997	\$26,665	50	25	\$57,465	\$28,700
000629	GARNER DRIVE LAND DIVISION	9/1/1988	\$7,088	50	16	\$19,694	\$6,300
000630	BEL MARIN KEYS NAVIGATION LOCK	3/1/1987	\$3,766	50	15	\$10,730	\$3,200
000631	METER UPGRADE-6 BROWN DR	7/1/1991	\$1,419	50	19	\$3,686	\$1,400
000632	CALTRANS 1	3/1/1987	\$3,819	50	15	\$10,883	\$3,300
000633	CREEKSIDE HOUSING	6/1/2001	\$57,705	50	29	\$114,386	\$66,300

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000636	Meters-Hamilton Field	7/1/2000	\$3,819	7	0	\$7,707	\$1,900
000637	Nave Self Storage	5/1/2000	\$37,334	50	28	\$75,350	\$42,200
000638	CHERRYHILL PS CHLORINATION BOOSTER	7/1/1999	\$25,792	50	27	\$53,447	\$28,900
000639	NOVATO BLVD LAND DIVISION	6/1/1987	\$5,333	50	15	\$15,197	\$4,600
000640	PACHECO AVENUE EXTENSION	6/1/1990	\$6,645	50	18	\$17,631	\$6,300
000642	MCCLAY ROAD DIVISION OF LAND	11/1/1987	\$7,196	50	15	\$20,506	\$6,200
000643	EDGEWATER CONDOMINIUMS PH 2&3	4/1/2001	\$54,422	50	29	\$107,879	\$62,600
000645	Portable Ultrasonic Flowmeter	6/1/2001	\$6,009	7	0	\$11,912	\$3,000
000646	CARLILE DRIVE EXT	3/1/1999	\$24,802	50	27	\$51,394	\$27,800
000647	ROWLAND II	12/1/1997	\$44,270	50	25	\$95,405	\$47,700
000648	Hamilton Landing Ph II	8/1/2002	\$76,162	50	30	\$146,261	\$87,800
000649	RUSSIAN RIVER FLOW CONTROL	6/1/1986	\$5,502	50	14	\$16,085	\$4,500
000651	CAMPBEL COURT LAND DIVISION	2/1/1988	\$6,507	50	16	\$18,080	\$5,800
000652	LAB HEAT PUMP IMPROVEMENTS	9/1/1987	\$2,556	35	0	\$7,285	\$1,800
000653	SUTRO AVENUE EXTENSION	5/1/1987	\$5,072	50	15	\$14,455	\$4,300
000654	LOUISE AVE EXTENSION	6/1/1984	\$3,982	50	12	\$12,059	\$3,000
000655	IGNACIO INTERCHANGE IRRIG SERV	3/1/1987	\$5,539	50	15	\$15,785	\$4,700
000656	WATER QUALITY MONITORING INSTRUMENT	10/1/2000	\$13,249	10	0	\$26,741	\$6,700
000657	TRUMBULL TANK LEVEL TRANSMITTER	5/1/1988	\$2,297	50	16	\$6,381	\$2,000
000658	WILSON AVE LAND DIV-BYWATER	2/1/1988	\$8,757	50	16	\$24,330	\$7,800
000660	Nave Dr(Sundown)Repl Fire Svc	6/1/1997	\$15,499	50	25	\$33,401	\$16,700
000661	PIERCE SUBDIVISION	10/1/1993	\$10,929	50	21	\$26,337	\$11,100
000662	RUSH LANDING PHII	1/1/2000	\$82,923	50	28	\$167,360	\$93,700
000664	BEL MARIN BUSINESS CENTER	7/1/1999	\$33,167	50	27	\$68,728	\$37,100
000665	MARIN COUNTRY CLUB POOL AREA RENOVATION	5/1/1999	\$31,142	50	27	\$64,534	\$34,800
000666	YARD STORAGE BUILDING	6/1/1990	\$12,985	35	3	\$34,454	\$8,600
000669	NOVATO BLVD LAND DIVISION	6/1/1988	\$8,479	50	16	\$23,558	\$7,500
000672	KASTANIA RD LAND DIVISION	6/1/1984	\$5,568	50	12	\$16,861	\$4,200
000675	Spectrophotometer	6/1/1999	\$5,721	10	0	\$11,855	\$3,000
000678	VINEYARD RD LAND DIV.-EVANS	11/1/1987	\$8,123	50	15	\$23,147	\$6,900
000679	PIZZA HUT RESTAURANT	6/1/1995	\$2,907	50	23	\$6,671	\$3,100
000681	HAMILTON LANDING PH I	6/1/2001	\$90,305	50	29	\$179,006	\$103,800
000682	Prog Logic Controller - to Nunes PS in 2002	3/1/2001	\$5,000	7	0	\$9,911	\$2,500
000684	SEQUOIA/GLEN LANE VALVES	6/1/1984	\$5,921	50	12	\$17,930	\$4,500
000685	Bayside Subdivision	9/1/2002	\$295,561	50	30	\$567,594	\$340,600
000686	2002 CHEV 4X4 PU #47	9/1/2002	\$20,191	5	0	\$38,775	\$9,700
000688	VEHICLE LIFT-4 POST	1/1/1999	\$21,344	10	0	\$44,230	\$11,100
000689	BEL MARIN COMMERCE PARK #2	2/1/1990	\$15,299	50	18	\$40,594	\$14,600
000690	WILD HORSE VLY TANK CONTROLS	6/1/1986	\$1,004	50	14	\$2,935	\$800
000691	CEDAR CREEK CONDOMINIUMS I&III	1/1/1987	\$10,255	50	15	\$29,223	\$8,800
000692	DIABLO AVENUE OFFICE BUILDING	3/1/1987	\$7,672	50	15	\$21,861	\$6,600
000693	GRANT PLAZA COMMERCIAL BLDG	3/1/1991	\$10,345	50	19	\$26,864	\$10,200
000694	SAN MARIN PUMP CONTROL VALVE	6/1/1984	\$7,101	50	12	\$21,505	\$5,400
000698	MENDOCINO LANE EXTENSION	6/1/1984	\$6,698	50	12	\$20,284	\$5,100
000699	REPL/UPGR 3RD LYNWD CONT VALVE	6/1/1986	\$8,859	50	14	\$25,897	\$7,300
000700	WORLD COLLEGE WEST PHASE TWO	3/1/1987	\$8,841	50	15	\$25,195	\$7,600
000703	MAYA PALENQUE RESTAURANT	12/1/1987	\$10,268	50	15	\$29,260	\$8,800
000704	IGNACIO IND PARK UNIT 3,3A	3/1/1987	\$8,978	50	15	\$25,584	\$7,700
000706	LANDING CT. PUBLIC STORAGE	6/1/1990	\$38,428	50	18	\$101,963	\$36,700
000707	OLIVE AVE OFFICE BLDG	2/1/1988	\$12,629	50	16	\$35,089	\$11,200
000708	DIABLO AVE OFFICE BUILDING	2/1/1988	\$12,198	50	16	\$33,891	\$10,800
000709	SINGLE SVC INST-93/94	6/1/1994	\$13,504	50	22	\$31,351	\$13,800
000710	CAR CARE CENTER	3/1/1994	\$3,577	50	22	\$8,305	\$3,700
000712	STROEH SUBDIVISION	2/1/1988	\$12,308	50	16	\$34,197	\$10,900
000713	IGNACIO IND PARK, LOT 58	6/1/1984	\$9,173	50	12	\$27,780	\$6,900
000714	ENFRETE ROAD SHELL STATION	1/1/1987	\$11,223	50	15	\$31,982	\$9,600
000716	LYNWOOD PUMP CONTROL VALVE	6/1/1984	\$7,709	50	12	\$23,345	\$5,800
000717	SAGE CT LAND DIVISION	7/1/1999	\$53,379	50	27	\$110,612	\$59,700
000719	AERATION SYSTEM IMPROVEMENTS	9/1/1987	\$5,671	74	39	\$16,161	\$8,500
000721	NOVATO FAIR ADDITIONS	11/1/1989	\$16,340	50	17	\$44,455	\$15,100
000722	RUSSIAN RIVER FLOW CONTROL	10/1/1990	\$3,660	50	18	\$9,712	\$3,500
000723	IGNACIO IND PK LOT #38	3/1/1985	\$8,977	50	13	\$26,869	\$7,000
000724	MODIFY MOT. VALVE CONTROLS	6/1/1986	\$10,718	50	14	\$31,331	\$8,800
000726	Cherry Hill Tank Drainage Imp	6/1/1997	\$53,730	50	25	\$115,792	\$57,900
000727	UPGR CREST TANK LEVEL CONTROLS	6/1/1986	\$1,209	50	14	\$3,534	\$1,000
000728	SCHOOL RD LAND DIVISION	6/1/1984	\$10,013	50	12	\$30,322	\$7,600
000729	GRANDVIEW AVE EXTENSION	5/1/1989	\$13,995	50	17	\$38,074	\$12,900
000730	IGNACIO INDUSTRIAL PARK100-104	9/1/1988	\$15,499	50	16	\$43,064	\$13,800
000731	Nunes Subdivision	11/1/1996	\$125,508	50	24	\$280,396	\$134,600
000732	WILLOW RUN	12/1/1987	\$12,111	50	15	\$34,513	\$10,400
000733	COURTYARD SQUARE-GRANT AVE	1/1/1987	\$12,057	7	0	\$34,357	\$8,600
000735	VINTAGE OAKS PAD 'O'	6/1/1994	\$4,402	50	22	\$10,219	\$4,500
000736	IGNACIO INDUSTRIAL PARK #3	1/1/1987	\$11,671	50	15	\$33,258	\$10,000

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000737	BEYER SUBDIVISION	2/1/1988	\$14,501	50	16	\$40,288	\$12,900
000738	VINEYARD RD LAND DIVISION	3/1/1991	\$11,492	50	19	\$29,843	\$11,300
000740	BEL MARIN COMMERCE PARK LOT 6	3/1/1987	\$12,069	50	15	\$34,393	\$10,300
000741	GOOD SHEPHERD LUTHERAN CHURCH	3/1/1987	\$11,522	50	15	\$32,834	\$9,900
000742	TRADITIONS PHII	6/1/2001	\$141,556	50	29	\$280,599	\$162,700
000746	NOVATO BLVD-ZNE II EXT-JOHNSON	6/1/1986	\$12,710	50	14	\$37,155	\$10,400
000747	VINTAGE OAKS-COSTCO	5/1/1994	\$4,597	50	22	\$10,672	\$4,700
000748	IGNACIO IND PK UNIT 3 -109,110	3/1/1987	\$12,836	50	15	\$36,578	\$11,000
000749	IGNACIO 10	9/1/1987	\$13,168	50	15	\$37,525	\$11,300
000750	VINEYARD RD LAND DIVISION	6/1/1986	\$11,911	50	14	\$34,821	\$9,700
000751	ROLLING HILLS CLUB EXPANSION	2/1/1990	\$22,448	50	18	\$59,562	\$21,400
000753	LESLIE'S POOL SUPPLIES	2/1/1995	\$5,163	50	23	\$11,849	\$5,500
000754	MOD. AQUEDUCT METERING CAPAC.	6/1/1986	\$11,886	50	14	\$34,747	\$9,700
000755	FRESH CHOICE RESTAURANT	1/1/1995	\$5,294	50	23	\$12,150	\$5,600
000756	IGNACIO IND. PK LOTS 105-108	3/1/1987	\$13,891	50	15	\$39,583	\$11,900
000757	805 ATHERTON AVE 1-1/2	2/1/1995	\$5,435	50	23	\$12,473	\$5,700
000758	GRANT AVE OFFICE - SCHELLER	2/1/1988	\$16,028	50	16	\$44,533	\$14,300
000759	IGNACIO INDUST. PARK 139-140	9/1/1987	\$14,278	50	15	\$40,687	\$12,200
000760	KELLEHER LUMBER WAREHOUSE	3/1/1987	\$13,551	50	15	\$38,615	\$11,600
000761	NOVATO FIRE DIST HDQTRS BLDG	2/1/1988	\$29,667	50	16	\$82,425	\$26,400
000762	EUCALYPTUS AVE LAND DIVISION	1/1/1995	\$5,473	50	23	\$12,561	\$5,800
000763	UPGR SVC-32 OAK VIEW	7/1/1991	\$2,328	50	19	\$6,045	\$2,300
000764	BROOKE RANCH SUBDIVISION	3/1/1987	\$27,565	50	15	\$78,550	\$23,600
000765	WORLD COLLEGE WEST PHASE III	1/1/1987	\$15,610	50	15	\$44,483	\$13,300
000766	GREAT WESTERN BANK-VINTAGE OAK	2/1/1995	\$5,759	50	23	\$13,216	\$6,100
000767	LYNWOOD SCHOOL MAIN EXTENSION	12/1/1991	\$12,048	50	19	\$31,286	\$11,900
000768	BERMUDA HARBOR CONDOMINIUMS	6/1/1984	\$11,885	50	12	\$35,991	\$9,000
000769	SEVENTH STREET ADMIN CENTER	6/1/1987	\$14,367	50	15	\$40,942	\$12,300
000770	IGNACIO AUTOMOTIVE CENTER	2/1/1988	\$17,769	50	16	\$49,369	\$15,800
000771	HANNA RANCH 16" OFFTRACT TRANSMIS:	3/1/2005	\$152,503	50	33	\$257,149	\$169,700
000773	BAY TREE PARK	2/1/1988	\$18,713	50	16	\$51,992	\$16,600
000774	EXCHANGE TRIANGLE CHARTER SCHOOL	5/1/2003	\$117,771	50	31	\$220,896	\$137,000
000775	TRADITIONS-PH I	4/1/2001	\$156,871	50	29	\$310,956	\$180,400
000778	GALLI SQUARE	2/1/1988	\$9,122	50	16	\$53,127	\$17,000
000779	SADDELBROOK ESTATES UNIT II	9/1/1988	\$21,267	50	16	\$59,087	\$18,900
000780	PACHECO AVE LAND DIVISION	9/1/1990	\$14,312	50	18	\$37,974	\$13,700
000781	1st St/GRANT-VALVE ADDITION	6/1/1995	\$6,190	50	23	\$14,205	\$6,500
000785	Novato Mobile Home & R.V. Park	7/1/1996	\$84,344	50	24	\$188,431	\$90,400
000786	MENDOCINO GARDENS	6/1/1986	\$15,548	50	14	\$45,453	\$12,700
000787	LYONS RESTAURANT	6/1/1986	\$16,061	50	14	\$46,950	\$13,100
000788	NOVA RO II	6/1/1987	\$16,973	50	15	\$48,368	\$14,500
000790	ATHERTON LAND DIV - KRENICKI	2/1/1988	\$22,815	50	16	\$63,388	\$20,300
000791	OLIVE HIGHLANDS	3/1/1987	\$17,238	50	15	\$49,123	\$14,700
000793	MARIN COUNTRY CLUB ESTATES 2	1/1/1987	\$19,415	50	15	\$55,327	\$16,600
000794	ARBOR CENTER	3/1/1987	\$15,695	50	15	\$44,726	\$13,400
000796	BENNETS/MARRIN SUBDIV	2/1/1988	\$21,783	50	16	\$60,521	\$19,400
000797	IGNACIO PLACE CONDOMINIUMS	9/1/1987	\$20,236	50	15	\$57,666	\$17,300
000798	4811 REDWOOD HWY SO.	2/1/1993	\$9,816	50	21	\$23,656	\$9,900
000800	TRUMBULL COURT LAND DIVISION	11/1/1994	\$6,943	50	22	\$16,118	\$7,100
000802	REDWOOD LANDING	2/1/1988	\$22,656	50	16	\$62,948	\$20,100
000805	IGN IND PK #3, LOT 111 & 112	2/1/1988	\$23,872	50	16	\$66,327	\$21,200
000806	IGNACIO INDUSTRIAL PARK,UNIT 1	12/1/1986	\$18,869	50	14	\$55,159	\$15,400
000807	NOVATO YOUTH CENTER	3/1/1991	\$10,688	50	19	\$27,753	\$10,500
000808	CITY CENTER OFFICE BUILDING	5/1/1987	\$18,139	50	15	\$51,689	\$15,500
000809	TANK LEVEL TRANSMITTERS	6/1/1992	\$6,332	50	20	\$15,948	\$6,400
000810	1565 SOUTH NOVATO BLVD	9/1/1987	\$21,853	50	15	\$62,273	\$18,700
000811	HILL RECREATION AREA	1/1/1991	\$6,920	50	19	\$17,970	\$6,800
000812	BRIDGE CREEK APARTMENTS	5/1/1990	\$28,203	50	18	\$74,831	\$26,900
000813	VILLA IGNACIO CONDOMINIUMS	6/1/1986	\$19,985	50	14	\$58,423	\$16,400
000814	MC CLAY RD EXTENSION	6/1/1984	\$16,353	50	12	\$49,524	\$12,400
000815	Forklift - 1999 JCB - #902-03 (D)	3/1/2006	\$21,545	5	0	\$34,911	\$8,700
000816	CARMEL HEIGHTS	6/1/1986	\$19,745	50	14	\$57,720	\$16,200
000817	ROWLAND PLAZA-OFFTRACT	8/1/1990	\$32,994	50	18	\$87,544	\$31,500
000820	3905 REDWOOD HWY SO	6/1/1992	\$10,442	50	20	\$26,299	\$10,500
000821	DEER ISLAND VILLAGE	4/1/1999	\$124,991	50	27	\$259,008	\$139,900
000822	AA SPECTROMETER (3)	11/1/1998	\$48,336	10	0	\$102,515	\$25,600
000823	OBERTZ LANE	3/1/1990	\$29,021	50	18	\$77,002	\$27,700
000824	CENTER ROAD LAND DIVISION	3/1/1991	\$18,493	50	19	\$48,024	\$18,200
000825	KAEHLER SUBDIVISION	2/1/1988	\$28,579	50	16	\$79,404	\$25,400
000827	GOLDEN GATE BUSINESS PARK	9/1/1998	\$229,298	50	26	\$486,312	\$252,900
000828	NOVATO FIRE STATION NO. 3	6/1/1993	\$8,728	50	21	\$21,034	\$8,800
000829	REPL FIRE SVC-195 LOS ROBLES	6/1/1995	\$9,288	50	23	\$21,315	\$9,800
000830	IGNACIO IND PARK LOTS 48-51	3/1/1987	\$22,217	50	15	\$63,312	\$19,000

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						Estimated	
000831	SADDLEBROOK ESTATES	3/1/1987	\$23,970	50	15	\$68,306	\$20,500
000832	BENTON LNECHO WEST LAND DIV	3/1/1991	\$25,266	50	19	\$65,612	\$24,900
000833	IGNACIO INDUSTRIAL PARK #3A	3/1/1990	\$32,159	50	18	\$85,329	\$30,700
000834	8121 BINFORD RD-STORAGE BLDG	10/1/1993	\$8,851	50	21	\$21,331	\$9,000
000838	REBUILD CALLE DE LA MESA	6/1/1990	\$36,148	50	18	\$95,914	\$34,500
000839	IGNACIO INDUSTRIAL PARK-LOT 63	9/1/1986	\$26,005	50	14	\$76,019	\$21,300
000841	SYL-DOR SUBDIVISION	6/1/1986	\$23,797	50	14	\$69,565	\$19,500
000842	VINEYARD ROAD LAND DIVISION	11/1/1987	\$29,919	50	15	\$85,259	\$25,600
000843	NOVATO SELF STORAGE,PHASE II	5/1/1987	\$26,307	50	15	\$74,965	\$22,500
000845	NOVATO CREEK LANDING	4/1/1990	\$36,934	50	18	\$97,999	\$35,300
000847	CATTLEMEN'S RESTAURANT	10/1/1991	\$11,418	50	19	\$29,650	\$11,300
000848	REPL LYNWOOD TANK RECTIFIERS	6/1/1991	\$8,815	50	19	\$22,890	\$8,700
000850	POSADA DEL SOL WEST	12/1/1988	\$35,643	50	16	\$99,030	\$31,700
000851	SINGLE SVC INST 94/95 NOVATO	6/1/1995	\$10,676	50	23	\$24,501	\$11,300
000852	SHELL CAR WASH ADDITION	11/1/1994	\$10,910	50	22	\$25,329	\$11,100
000853	BRIDEWELL HILLTOP KENNELS	2/1/1995	\$11,516	50	23	\$26,429	\$12,200
000854	MARIN CTY B/W PHOTOS SCALE URBAN&F	6/1/2000	\$31,973	7	0	\$64,530	\$16,100
000856	EUCALYPTUS AVE LAND DIVISION	11/1/1992	\$12,690	50	20	\$31,962	\$12,800
000857	SPEE DEE OIL CHANGE	10/1/1991	\$13,427	50	19	\$34,868	\$13,300
000858	DIESEL FUEL TANK (REPL)	6/1/1995	\$7,545	35	8	\$17,316	\$4,300
000859	PACHECO VALLEY OFFICES	6/1/1988	\$36,585	50	16	\$101,647	\$32,500
000860	RUSH CREEK INN	9/1/1987	\$32,053	50	15	\$91,339	\$27,400
000861	REPL FIRE SVC-171 BEL MARIN KE	6/1/1995	\$11,437	50	23	\$26,247	\$12,100
000862	REPL FIRE SVC-15 SAN MARIN DR	6/1/1995	\$11,566	50	23	\$26,544	\$12,200
000864	SAN MARIN BUSINESS PARK I	2/1/1989	\$48,819	50	17	\$132,816	\$45,200
000865	HOMELESS HOUSING-HAFB	10/1/1994	\$11,819	50	22	\$27,440	\$12,100
000866	PACHECO RANCH ESTATES UNIT 1	9/1/1988	\$40,390	50	16	\$112,219	\$35,900
000867	STAFF DAM STABILITY ANALYSIS	1/1/1988	\$17,132	73	39	\$47,600	\$25,400
000868	CHECKERED FLAG CARWASH	10/1/1994	\$12,048	50	22	\$27,972	\$12,300
000869	EAGLE DRIVE PRESSURE TANK	6/1/1984	\$25,907	50	12	\$78,455	\$19,600
000870	CAPTAIN'S LANDING CONDOMINIUMS	12/1/1988	\$43,163	50	16	\$119,922	\$38,400
000871	ENFRETE RD BRIDGE CROSSING	6/1/1984	\$26,763	50	12	\$81,046	\$20,300
000872	ROSEWOOD SUBDIVISION	9/1/1987	\$36,667	50	15	\$104,489	\$31,300
000873	SCHOOL LN P.S. INCR CAPACITY	6/1/1990	\$49,226	50	18	\$130,613	\$47,000
000874	TODD SENIOR CENTER	1/1/1991	\$11,289	50	19	\$29,317	\$11,100
000875	ENGINEERING OFFICE REMODEL	6/1/1991	\$8,367	35	4	\$21,729	\$5,400
000876	NEW SERVICES/DCV FYE 6/30/91	6/1/1991	\$11,120	50	19	\$28,876	\$11,000
000877	ADDL 100 HP PUMP-SAN MARIN P.S	6/1/1992	\$12,048	25	0	\$30,346	\$7,600
000880	THE MEADOWS APARTMENTS	1/1/1987	\$37,715	50	15	\$107,475	\$32,200
000881	ROWLAND PLAZA-STATE FARM INS	3/1/1991	\$22,149	50	19	\$57,518	\$21,900
000882	SOMERSET PLACE	2/1/1988	\$44,336	50	16	\$123,183	\$39,400
000883	RUSH LANDING BUSINESS CENTER	6/1/1990	\$51,953	50	18	\$137,848	\$49,600
000884	OLIVE AVE. LAND DIVISION	4/1/1990	\$50,832	50	18	\$134,873	\$48,600
000885	QUICK LUBE	7/1/1991	\$3,537	50	19	\$9,184	\$3,500
000886	32 INDIAN HILLS DRIVE	3/1/1995	\$13,271	50	23	\$30,456	\$14,000
000887	BRADLEY AVE REPLACEMENT	6/1/1984	\$29,138	50	12	\$88,240	\$22,100
000888	DOWNTOWN NOVATO CENTER EXT	2/1/1988	\$45,895	50	16	\$127,515	\$40,800
000889	STORAGE UNITS-YARD	7/1/1993	\$9,033	35	6	\$21,768	\$5,400
000891	2003 DODGE DAKOTA PU QUADCAB #49	7/1/2003	\$21,008	5	0	\$39,404	\$9,900
000892	LIVING HISTORY CENTER	5/1/1988	\$11,165	50	16	\$31,021	\$9,900
000893	SKYLARK MEADOWS	2/1/1988	\$46,684	50	16	\$129,706	\$41,500
000895	STAFFORD LAKE FENCING	9/1/1987	\$19,038	25	0	\$54,253	\$13,600
000896	ALUM TANK LADDER	6/1/1995	\$11,973	50	23	\$27,477	\$12,600
000897	LAGUNA VISTA SUBDIVISION UNIT1	6/1/1988	\$48,469	50	16	\$134,665	\$43,100
000898	UPSIZE TRANSMISSION LINE VALVE	6/1/1995	\$15,356	50	23	\$35,241	\$16,200
000902	MOYLAN'S BREWERY & RESTAURANT	6/1/1995	\$16,509	50	23	\$37,887	\$17,400
000903	ZONE A PIPELINE COMPLETION	6/1/2000	\$528,651	50	28	\$1,066,951	\$597,500
000904	DEER GARDEN LAND DIVISION	5/1/1995	\$16,844	50	23	\$38,657	\$17,800
000905	QUAIL HOLLOW	11/1/1989	\$95,315	50	17	\$259,313	\$88,200
000906	PLUM TANK	1/1/1955	\$20,597	50	0	\$391,828	\$98,000
000908	Hamilton Boundary-Tank	7/1/2002	\$320,402	50	30	\$615,299	\$369,200
000909	REPL FIRE SVC-265 BEL MARIN KE	6/1/1995	\$18,056	50	23	\$41,436	\$19,100
000913	PETALUMA SERVICES	1/1/1989	\$70,116	50	17	\$190,758	\$64,900
000915	Rush Creek Estates Phil	5/1/2001	\$388,582	50	29	\$770,266	\$446,800
000916	SUTRO AVE LAND DIVISION	7/1/1991	\$6,962	50	19	\$18,080	\$6,900
000917	PROGRAM. CONTR-WINGED FOOT P.S	9/1/1994	\$19,969	50	22	\$46,361	\$20,400
000918	FLOW MTR-WINGED FOOT P.S.	6/1/1994	\$10,331	50	22	\$23,986	\$10,600
000922	IGNACIO TRANSMISSION LINE	9/1/1986	\$56,003	50	14	\$163,715	\$45,800
000923	HALF MOON TANK PIPELINE-RELOC	6/1/1995	\$20,800	50	23	\$47,734	\$22,000
000924	CHERRY HILL TANK#2	7/1/1998	\$225,252	50	26	\$477,730	\$248,400
000925	MARION PARK APARTMENTS	6/1/1989	\$71,699	50	17	\$195,064	\$66,300
000927	SAN JOSE BLVD SVC REPLACEMENTS	9/1/1988	\$75,210	50	16	\$208,963	\$66,900
000928	NOVATO MUFFLER & BRAKE	2/1/1995	\$22,409	50	23	\$51,426	\$23,700

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000929	MEYERS CT SUBDIVISION	8/1/1993	\$35,256	50	21	\$84,964	\$35,700	
000931	CAMBRIDGE ST ZONE II CONV	9/1/1987	\$64,259	50	15	\$183,116	\$54,900	
000932	HOSE REEL TRAILER #80	3/1/2006	\$81,651	5	0	\$132,307	\$33,100	
000933	REBELO RANCH - PHASE I	11/1/1987	\$68,695	50	15	\$195,756	\$58,700	
000934	TACO BELL-ROWLAND BLVD	10/1/1993	\$15,928	50	21	\$38,385	\$16,100	
000935	UPGRADE TELEMETRY CABLES	7/1/1993	\$23,438	50	21	\$56,483	\$23,700	
000936	HAMILTON HILLSIDE HOUSING	12/1/1988	\$91,571	50	16	\$254,419	\$81,400	
000937	SCENIC GLADE SUBDIVISION	5/1/1994	\$25,152	50	22	\$58,394	\$25,700	
000938	IGNACIO IND. PARK LOT 57-JANDY	6/1/1986	\$66,504	50	14	\$194,411	\$54,400	
000939	TODD SENIOR CENTER PHASE II	10/1/1991	\$29,008	50	19	\$75,327	\$28,600	
000940	PB SVC LINE REPL-SANTA MARIA	6/1/1995	\$26,829	50	23	\$61,571	\$28,300	
000941	HAMILTON IND PK #2,LOTS 4 & 5	3/1/1991	\$29,788	50	19	\$77,355	\$29,400	
000942	Rush Creek Estates Ph1	5/1/2001	\$548,983	50	29	\$1,088,221	\$631,200	
000943	ROWLAND PLAZA INTRACT	8/1/1990	\$111,791	50	18	\$296,617	\$106,800	
000944	VINEYARD RD REPLACEMENT PROJ	6/1/1986	\$70,278	50	14	\$205,443	\$57,500	
000945	EASTSIDE FIRE STATION	10/1/1991	\$22,666	50	19	\$58,859	\$22,400	
000946	FIREMAN'S FUND PH II & III	3/1/1994	\$26,961	50	22	\$62,594	\$27,500	
000949	DEER CREEK CONDOMINIUMS	5/1/1994	\$29,393	50	22	\$68,240	\$30,000	
000950	BLACKPOINT MINI WAREHOUSE	3/1/1987	\$76,846	50	15	\$218,985	\$65,700	
000952	LADERA VISTA CONDOMINIUMS	5/1/1988	\$26,155	50	16	\$72,669	\$23,300	
000954	WILSON AVE-MILL RD TO VINEYARD	8/1/1986	\$85,878	50	14	\$251,047	\$70,300	
000955	MARIN CHRISTIAN LIFE CHURCH	12/1/1993	\$32,764	50	21	\$78,959	\$33,200	
000959	FIREMAN'S FUND PHASE I IMPRVMT	3/1/1995	\$36,074	50	23	\$82,787	\$38,100	
000960	NEW SVCS/DCV FYE 6/30/92	8/1/1992	\$19,140	50	20	\$48,208	\$19,300	
000962	GNOSS FIELD FIRE LINE EXT	6/1/1994	\$37,693	50	22	\$87,511	\$38,500	
000963	STAFFORD SEISMIC REANALYSIS	6/1/1992	\$38,711	69	39	\$97,501	\$55,100	
000965	Admin Building Renovation	6/1/1997	\$84,838	10	0	\$182,833	\$45,700	
000966	BRYAN DRIVE	6/1/1989	\$33,327	50	17	\$90,670	\$30,800	
000967	UPGR 600' CI,MANUAL DRIVE	6/1/1992	\$37,000	50	20	\$93,191	\$37,300	
000968	OLIVE PLAZA	9/1/1994	\$41,707	50	22	\$96,829	\$42,600	
000969	LYNWOOD TANK #1	1/1/1958	\$53,317	50	0	\$881,983	\$220,500	
000970	ABOVE GROUND FUEL TANKS	6/1/1992	\$24,064	35	5	\$60,609	\$15,200	
000971	VERISSIMO DR LAND DIVISION	3/1/1995	\$42,739	50	23	\$98,084	\$45,100	
000972	DIABLO HILL MEDICAL CENTER	3/1/1989	\$145,423	50	17	\$395,638	\$134,500	
000973	BEL MARIN KEYS UNIT 4	1/1/1986	\$123,158	7	0	\$360,029	\$90,000	
000974	CROSSROADS SERVICE LATERAL REP	9/1/1988	\$167,046	50	16	\$464,120	\$148,500	
000976	SCOTTSDALE LAKE CONDOS-FIRE SV	10/1/1994	\$49,398	50	22	\$114,686	\$50,500	
000977	Hamilton Field Ph II	3/1/2002	\$948,608	50	30	\$1,821,703	\$1,093,000	
000978	SUN LANE EXTENSION	11/1/1990	\$7,109	50	18	\$18,862	\$6,800	
000979	ROWLAND PLAZA CINEMA	2/1/1990	\$19,759	50	18	\$52,428	\$18,900	
000983	NOVATO CREEK BRIDGE WATERMAIN	8/1/1992	\$52,415	50	20	\$132,015	\$52,800	
000984	LUCKY STORE #109 EXPANSION	5/1/1995	\$55,142	50	23	\$126,547	\$58,200	
000987	WINDHAVEN	4/1/1991	\$73,007	50	19	\$189,586	\$72,000	
000988	2002 INTNL DUMP TRUCK #44	3/1/2002	\$71,035	5	0	\$136,415	\$34,100	
000990	GOLF COURSE ROAD PAVING/FENCE	1/1/1988	\$84,238	25	0	\$234,046	\$58,500	
000992	WINDEMERE HILLS ESTATES LD	1/1/1995	\$63,045	50	23	\$144,683	\$66,600	
000993	IGNACIO INDUSTRIAL PARK III	3/1/1994	\$58,259	50	22	\$135,258	\$59,500	
000995	WILDWOOD GLEN SUBDIVISION	12/1/1993	\$57,980	50	21	\$139,725	\$58,700	
001000	AMAROLI TANK	9/1/2003	\$5,650,401	50	31	\$10,598,132	\$6,570,800	
001001	4775 REDWOOD HIGHWAY SO	2/1/1992	\$38,057	50	20	\$95,853	\$38,300	
001002	Hamilton Boundary-Transmission Lines	7/1/2002	\$1,610,677	50	30	\$3,093,138	\$1,855,900	
001005	IGNACIO IND PARK # 3A	3/1/1991	\$51,439	50	19	\$133,577	\$50,800	
001006	CORP YARD BUILDING EXPANSION	6/1/1990	\$416,258	35	3	\$1,104,469	\$276,100	
001007	DEER VALLEY SUBDIVISION	5/1/1988	\$60,996	50	16	\$169,472	\$54,200	
001012	PACHECO RANCH ESTATES UNIT II	9/1/1988	\$296,778	50	16	\$824,565	\$263,900	
001013	SAN MARIN BUSINESS PARK #2	4/1/1991	\$74,824	50	19	\$194,303	\$73,800	
001014	SAN MARIN HILLS UNIT NO. 2	9/1/1988	\$299,141	50	16	\$831,131	\$266,000	
001015	650'-16	9/1/1993	\$88,275	50	21	\$212,734	\$89,300	
001023	WORLD COLLEGE WEST	3/1/1987	\$258,841	50	15	\$737,605	\$221,300	
001025	SHELLER SUBDIVISION	3/1/1988	\$35,491	50	16	\$98,607	\$31,600	
001026	MARIN COUNTRY INN	3/1/1988	\$36,560	50	16	\$101,577	\$32,500	
001029	VACUUM CLEANER 18	8/1/1994	\$608	10	0	\$1,412	\$400	
001032	REDWOOD LANDFILL	9/1/1994	\$128,381	50	22	\$298,058	\$131,100	
001042	HILLSIDE PARK UNIT 4	11/1/1994	\$144,177	50	22	\$334,729	\$147,300	
001052	CARGO CONTAINER	2/1/2004	\$2,896	5	0	\$5,110	\$1,300	
001054	VOLT METER	7/1/1993	\$596	10	0	\$1,436	\$400	
001055	TURBIDIMETER	8/1/1995	\$1,555	10	0	\$3,568	\$900	
001056	PARTRIDGE KNOLLS UNIT 2	11/1/1990	\$161,395	50	18	\$428,234	\$154,200	
001060	HWY 101 CROSSING-24"	6/1/1995	\$195,546	50	23	\$448,764	\$206,400	
001074	ANDERSON ROWE RANCH SR HOUSING	11/1/1992	\$93,447	50	20	\$235,361	\$94,100	
001097	Hydraulic Shoring	3/1/2001	\$2,027	5	0	\$4,019	\$1,000	
001118	RADIO TRANSMITTER RELOCATION	6/1/1995	\$87,434	20	0	\$200,654	\$50,200	
001122	LASER LEVEL	8/1/1999	\$858	5	0	\$1,778	\$400	

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001124	RAFAEL VILLAGE MASTER METERING	7/1/1988	\$36,576	50	16	\$101,623	\$32,500
001127	BALANCE	2/1/1993	\$1,097	10	0	\$2,644	\$700
001129	FILE CABINETS (2)	9/1/1988	\$519	10	0	\$1,443	\$400
001136	PLANIMETER	10/1/1989	\$611	10	0	\$1,663	\$400
001147	REDWOOD RD/PALMER DR EXT(PELL)	9/1/1991	\$371,425	50	19	\$964,517	\$366,500
001180	Display Board (Blue quadra-fold)	2/1/1986	\$539	10	0	\$1,577	\$400
001193	DRAFTING STATION	11/1/1991	\$1,226	10	0	\$3,184	\$800
001200	TOE DRAIN REPLACEMENT	1/1/1988	\$756,807	73	39	\$2,102,707	\$1,123,400
001209	WHV TANK TRANSMITTER/TELEMETRY	6/1/1995	\$1,046	7	0	\$2,402	\$600
001213	WATER FLOW TEST KIT	5/1/1990	\$1,035	10	0	\$2,747	\$700
001221	TYPEWRITER	7/1/1986	\$737	10	0	\$2,154	\$500
001222	TYPEWRITER, WHEELWRITE	7/1/1986	\$737	10	0	\$2,154	\$500
001242	FILE CABINETS (7)	7/1/1981	\$619	10	0	\$2,200	\$500
001245	Mobile Radio 16 (KENWOOD)	8/1/1997	\$1,112	5	0	\$2,396	\$600
001247	WINCH (TUGGER)/EM WIRE PULLER	8/1/1992	\$2,274	10	0	\$5,727	\$1,400
001252	VINTAGE OAKS-INTRACT	9/1/1994	\$861,181	50	22	\$1,999,371	\$879,700
001266	PVC 3-PLACE MANIFOLD	8/1/1990	\$537	5	0	\$1,426	\$400
001269	OPEN CHANNEL FLOW METER	7/1/1993	\$749	5	0	\$1,805	\$500
001272	POWERED PLASTIC BEVELER	9/1/1993	\$772	5	0	\$1,861	\$500
001273	FLATBED TRAILER FOR GENERATOR	9/1/2001	\$5,066	10	0	\$10,042	\$2,500
001276	TP-AIR COMPRESSOR	6/1/1991	\$637	5	0	\$1,653	\$400
001277	FLOOD CONTROL PROJECTS	1/1/1988	\$1,562,585	73	39	\$4,341,473	\$2,319,400
001281	BUILDINGS	11/1/1969	\$505,415	35	0	\$5,000,603	\$1,250,200
001288	WATER BATH/EVAPORATOR	7/1/1992	\$781	5	0	\$1,967	\$500
001298	WINCH	9/1/1991	\$820	5	0	\$2,130	\$500
001301	TRAFFIC PLATES	7/1/1985	\$521	5	0	\$1,560	\$400
001303	HOSE RAMPS	3/1/2000	\$2,181	5	0	\$4,401	\$1,100
001313	PROGAMMABLE JAR TEST STIRRER	10/1/1997	\$2,237	5	0	\$4,822	\$1,200
001318	CONTROL ROOM CABINETS-TP	6/1/1991	\$3,491	10	0	\$9,066	\$2,300
001323	CONTROL ROOM CABINETS	3/1/1991	\$3,538	10	0	\$9,187	\$2,300
001328	TRASH PUMP 3"	8/1/1993	\$1,249	5	0	\$3,011	\$800
001330	STEEL PLATES (TWO EACH 5 X 10)	8/1/1993	\$1,259	5	0	\$3,034	\$800
001332	TRANS JACK	6/1/1992	\$1,146	5	0	\$2,885	\$700
001337	TRAFFIC PLATE	9/1/1988	\$849	5	0	\$2,359	\$600
001338	OP CENTRAL COMPUTER UPGRADE	6/1/1995	\$14,310	10	0	\$32,840	\$8,200
001339	TRANSIT/LEVEL	7/1/1968	\$805	10	0	\$8,746	\$2,200
001342	TAPPING MACHINE	9/1/1989	\$936	5	0	\$2,547	\$600
001347	GENERATOR	7/1/1987	\$848	5	0	\$2,417	\$600
001351	PORTABLE PRESSURE RECORDER	6/1/1986	\$877	5	0	\$2,564	\$600
001352	HYD VALVE DRIVE & TURNER	10/1/1999	\$6,129	5	0	\$12,701	\$3,200
001353	BASE RADIO	12/1/1978	\$604	5	0	\$2,733	\$700
001354	Plastic Hose w/Victaulic Ends	4/1/2000	\$10,799	10	0	\$21,795	\$5,400
001359	MICROSCOPE	1/1/1966	\$962	10	0	\$11,853	\$3,000
001360	WELDER	11/1/1991	\$1,513	5	0	\$3,930	\$1,000
001363	PRESSURE WASHER CLEANER	3/1/1993	\$1,748	5	0	\$4,213	\$1,100
001364	PROG CONTRL-AQUEDUCT REG STATN	6/1/1995	\$4,750	7	0	\$10,901	\$2,700
001373	WINDOW BLINDS	11/1/1976	\$1,800	10	0	\$9,413	\$2,400
001374	WM HOUSE	4/1/2005	\$652,400	35	18	\$1,100,074	\$565,800
001376	PERSONNEL HOIST SYSTEM / WINCH	6/1/1995	\$2,860	5	0	\$6,563	\$1,600
001379	EDM TRANSIT/ LEVEL	3/1/1991	\$6,860	10	0	\$17,813	\$4,500
001381	THINWALL BENDER	8/1/1987	\$1,441	5	0	\$4,105	\$1,000
001387	TAP. MACHINE ADAPTORS,4	5/1/1982	\$1,175	5	0	\$3,856	\$1,000
001389	YARD CONTROL PANEL	6/1/1990	\$3,393	7	0	\$9,001	\$2,300
001391	ROTARY HAMMER	7/1/1990	\$2,052	5	0	\$5,443	\$1,400
001396	TRAFFIC PLATES (2) 5' X 8'	7/1/1979	\$1,101	5	0	\$4,604	\$1,200
001400	BASE RADIO	6/1/1980	\$1,241	5	0	\$4,815	\$1,200
001401	TRENCH JACKS	7/1/1965	\$734	5	0	\$9,497	\$2,400
001402	SHORING JACKS	8/1/1974	\$988	5	0	\$6,141	\$1,500
001404	Stranco Polymer Feed System	10/1/1996	\$5,455	5	0	\$12,188	\$3,000
001406	WHEEL BALANCER	7/1/1991	\$2,759	5	0	\$7,165	\$1,800
001407	MECHANICAL CONVECTION INCUBATOR	5/1/1991	\$2,756	5	0	\$7,157	\$1,800
001414	VALVE TURNING MACHINE	6/1/1993	\$4,336	5	0	\$10,450	\$2,600
001417	UNDERGROUND BORING TOOL	7/1/1992	\$4,505	5	0	\$11,345	\$2,800
001418	TRANSMISSION LINES	2/1/1969	\$2,957,322	99	46	\$29,259,894	\$13,595,500
001419	AUTOCLAVE	2/1/1990	\$3,995	5	0	\$10,600	\$2,600
001420	LOW BAND RADIOS 2 #52 & Shop was in 9	6/1/1991	\$4,918	5	0	\$12,772	\$3,200
001423	PORTABLE GENERATOR #73	8/1/2001	\$44,193	10	0	\$87,601	\$21,900
001424	DISTRIBUTION SYSTEM **	8/1/1969	\$6,458,278	50	0	\$63,898,529	\$15,974,600
001425	MODEM INST AT TANK SITES	6/1/1994	\$15,462	7	0	\$35,897	\$9,000
001426	DISTRIBUTION SYSTEM **	11/1/1969	\$5,234,639	50	0	\$51,791,781	\$12,947,900
001435	1999 Ford F350 Pickup #19	11/1/1998	\$28,700	5	0	\$60,869	\$15,200
001441	SHORING SHIELD EXTENSION	10/1/1993	\$13,383	5	0	\$32,251	\$8,100
001447	TAPPING MACHINE #68	9/1/1972	\$4,948	5	0	\$35,442	\$8,900

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						Estimated	
001455	TREATMENT PLANT	9/1/1964	\$772,657	40	0	\$10,364,463	\$2,591,100
001461	CONTROLS AUTOMATION	6/1/1991	\$120,258	10	0	\$312,287	\$78,100
001465	DEIONIZING SYSTEM	10/1/2006	\$3,929	5	0	\$6,367	\$1,600
001466	LAND & LAND RIGHTS	1/1/1948	\$969,707	5	0	\$26,410,428	\$6,602,600
001480	STAFFORD LAKE EROSION CONTROL	6/1/1989	\$193,114	5	0	\$525,385	\$131,300
001481	WATERSHED BOUNDARY SURVEY	6/1/1989	\$2,000	5	0	\$5,441	\$1,400
001487	LANDSCAPE CHERRY HILL TANK ST	6/1/1990	\$650	5	0	\$1,725	\$400
001488	WATERSHED BOUNDARY SURVEY	6/1/1991	\$1,000	5	0	\$2,597	\$600
001490	EROSION PROTECTION-WHV TANK	6/1/1992	\$3,084	5	0	\$7,768	\$1,900
001492	ROSALIA TANK SITE	7/1/1993	\$171,626	5	0	\$413,601	\$103,400
001493	SPINOSA EASEMENT	9/1/2003	\$27,690	5	0	\$51,937	\$13,000
001500	Edgewater Condominiums	5/1/1998	\$49,629	50	26	\$105,257	\$54,700
001501	Oak Grove Apartments	5/1/2000	\$103,442	50	28	\$208,772	\$116,900
001502	Hawthorne Suites	5/1/2000	\$3,895	50	28	\$7,860	\$4,400
001503	Cloud Lane Water Service-Drury	6/1/2004	\$6,036	50	32	\$10,652	\$6,800
001504	TRASH PUMP 3"	10/1/1992	\$1,260	5	0	\$3,174	\$800
001506	MASTER PLANNING MAPS-300 SCALE	2/1/1991	\$1,010	5	0	\$2,623	\$700
001507	WORKSTATION - LAB	5/1/2000	\$1,276	5	0	\$2,576	\$600
001510	Bel Marin Keys Storage	1/26/2007	\$334,731	50	35	\$527,527	\$369,300
001511	Pointe Marin Phase I	1/26/2007	\$810,758	50	35	\$1,277,734	\$894,400
001512	2007 Trailmax Trailer #5-02	12/27/2006	\$20,266	5	0	\$32,838	\$8,200
001513	OAK PARK ESTATES	2/26/2007	\$63,418	50	35	\$99,945	\$70,000
001514	POINTE MARIN PH II & III	2/26/2007	\$1,632,076	50	35	\$2,572,112	\$1,800,500
001515	Lehman Land Division	2/27/2007	\$99,615	50	35	\$156,991	\$109,900
001516	Wecker Remodel & Additions	4/19/2007	\$7,603	50	35	\$11,983	\$8,400
001518	Tapping Machine #81	2/25/2007	\$2,937	5	0	\$4,629	\$1,200
001519	Ignacio Center Stores	4/20/2007	\$25,912	50	35	\$56,596	\$39,600
001520	PORTABLE HAND-HELD DATA LOGGER (BI	2/21/2007	\$1,326	5	0	\$2,090	\$500
001521	Lo-Band Portable Radio	1/10/2007	\$719	1	0	\$1,133	\$300
001522	Lo-Band Portable Radio	1/10/2007	\$719	1	0	\$1,133	\$300
001523	Lo-Band Portable Radio	1/10/2007	\$719	1	0	\$1,133	\$300
001524	Lo-Band Portable Radio	1/10/2007	\$719	1	0	\$1,133	\$300
001525	Lo-Band Portable Radio	1/10/2007	\$719	1	0	\$1,133	\$300
001527	2007 International LoPro Crew Truck #503	11/7/2006	\$95,795	10	0	\$155,225	\$38,800
001528	Badger Court Main Extension/Hydrant	4/23/2007	\$99,646	50	35	\$157,039	\$109,900
001529	DIGITAL LEAK DETECTOR	5/31/2007	\$3,537	5	0	\$5,574	\$1,400
001530	UTILITY TRAILER #1-0072-02	5/31/2007	\$2,313	5	0	\$3,645	\$900
001531	REDWOOD LANDFILL BRIDGE ACCESS	6/8/2007	\$504,092	99	84	\$794,437	\$674,100
001532	Hamilton Landing Phase 2B	6/19/2007	\$199,645	50	35	\$314,636	\$220,200
001533	ANDERSON LAND DIVISION	6/22/2007	\$32,657	50	35	\$51,467	\$36,000
001534	REICHERT AVE LAND DIVISION	6/27/2007	\$61,378	50	35	\$96,729	\$67,700
001535	BRAHMA KUMARIS MEDITATION CENTER	6/27/2007	\$85,300	50	35	\$134,431	\$94,100
001536	WILSON AVE EXTENSION	6/28/2007	\$67,376	50	35	\$106,183	\$74,300
001537	Indian Valley Golf Course Bridge Repair	8/7/2007	\$164,945	50	35	\$259,950	\$182,000
001538	STP Mains	10/1/2006	\$99,491	34	18	\$1,619,561	\$857,400
001539	STP Structures	10/1/2006	\$9,844,904	40	24	\$15,952,531	\$9,571,500
001540	STP Pumping Equipment	10/1/2006	\$3,035,305	25	9	\$4,918,362	\$1,770,600
001541	STP Water Treatment Equipment	10/1/2006	\$2,079,867	20	4	\$3,370,184	\$842,500
001542	Recycled Water Facility - Mains	7/1/2007	\$1,296,204	50	35	\$2,042,786	\$1,429,900
001543	Recycled Water Facility - Structures	7/1/2007	\$612,414	40	25	\$965,149	\$603,200
001544	Recycled Water Facility - Pumping Equipment	7/1/2007	\$236,379	25	10	\$372,527	\$149,000
001545	Recycled Water Facility - Water Treatment Eq	7/1/2007	\$1,714,100	20	5	\$2,701,379	\$675,300
001547	Cherry Hill Pipeline - Phase 2	9/25/2007	\$224,878	50	35	\$354,403	\$248,100
001548	15HP OUTBOARD MOTOR & FUEL TANK AT	9/7/2007	\$2,669	5	0	\$4,207	\$1,100
001549	18" BACKHOE BUCKET	8/24/2007	\$964	1	0	\$1,520	\$400
001550	2007 TRAILMAX EQUIP TRAILER #44A	8/29/2007	\$22,995	10	0	\$36,239	\$9,100
001557	Oak Desk Unit (Corner Desk, 3dr File Cab, 36	9/25/2007	\$1,131	10	0	\$1,783	\$400
001563	San Marin High School Fire Hydrants (3)	10/15/2007	\$110,075	50	35	\$173,475	\$121,400
001564	Paul Land Division	10/15/2007	\$59,225	50	35	\$93,337	\$65,300
001565	48 Hillside Terrace-Hyd/Wtr Svc	10/22/2007	\$8,913	50	35	\$14,047	\$9,800
001567	WHV Tank Altitude Valve Addition	9/28/2007	\$95,473	50	35	\$150,462	\$105,300
001568	Hamilton Firehouse Conversion (Museum)	10/31/2007	\$28,479	50	35	\$44,882	\$31,400
001571	Confined Space Monitor	10/4/2007	\$1,460	5	0	\$2,301	\$600
001576	STP Sonde Upgrade	11/8/2007	\$5,566	5	0	\$8,771	\$2,200
001577	Rescue Winch for Confined Space Entry	1/4/2008	\$3,470	5	0	\$5,243	\$1,300
001579	Virginia Grove Subdivision	2/22/2008	\$61,478	50	36	\$92,887	\$66,900
001580	Marion Heights	2/22/2008	\$276,603	50	36	\$417,918	\$300,900
001581	Novato Gateway Project-DeLong Ave	2/29/2008	\$85,344	50	36	\$128,946	\$92,800
001583	2008 FORD F250 PU #505	2/29/2008	\$29,843	5	0	\$45,090	\$11,300
001584	2008 FORD F250 PU #506	2/29/2008	\$32,868	5	0	\$49,660	\$12,400
001585	LAPTOP PC	2/29/2008	\$1,597	5	0	\$2,412	\$600
001586	SKID STEER BUCKET FOR BOBCAT	2/29/2008	\$3,261	5	0	\$4,927	\$1,200
001590	Renaissance at Stone Tree	4/14/2008	\$43,302	50	36	\$65,424	\$47,100

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						Estimated	
001591	City of Novato Corporation Yard Improvement:	4/16/2008	\$88,487	50	36	\$133,695	\$96,300
001592	Pallet Racking	4/30/2008	\$21,084	10	0	\$31,855	\$8,000
001594	Network Tester	4/25/2008	\$2,477	5	0	\$3,743	\$900
001595	House of Daniels	5/31/2008	\$67,676	50	36	\$102,251	\$73,600
001596	Woodview Estates	5/31/2008	\$181,363	50	36	\$274,021	\$197,300
001597	Anderson Rowe Ranch	6/2/2008	\$358,217	50	36	\$541,228	\$389,700
001600	Portable Generator #82	5/30/2008	\$38,351	10	0	\$57,944	\$14,500
001602	Pipe Freeze Kit	6/11/2008	\$565	5	0	\$853	\$200
001603	Meadow Park Ph1	6/17/2008	\$1,795,694	50	36	\$2,713,107	\$1,953,400
001604	Atherton Ranch	6/17/2008	\$783,040	50	36	\$1,183,091	\$851,800
001605	Stone Tree Maintenance Facility	6/17/2008	\$30,357	50	36	\$45,866	\$33,000
001606	Hennessy Barn Fire Service	6/17/2008	\$17,681	50	36	\$26,714	\$19,200
001607	STP Solar Powered Lake Aeration System	6/20/2008	\$212,903	20	6	\$321,675	\$96,500
001608	Black Point Golf Links	6/20/2008	\$2,135,657	50	36	\$3,226,756	\$2,323,300
001609	Jack In The Box Fire Service	6/30/2008	\$32,348	50	36	\$48,875	\$35,200
001611	Hydrostatic Test Pump	3/1/2008	\$2,796	5	0	\$4,225	\$1,100
001612	Plasma Cutter	3/1/2008	\$1,489	5	0	\$2,249	\$600
001613	Portable Scanner	6/27/2008	\$6,112	10	0	\$9,235	\$2,300
001614	2008 Chevy Colorado 4x4 Ext Cab #509	6/17/2008	\$19,535	5	0	\$29,516	\$7,400
001615	Core Utilities Billing software Upgrade	6/30/2008	\$27,492	10	0	\$41,538	\$10,400
001617	Two Sets of Tools (Welding Shop and Crew Tr	1/9/2008	\$610	5	0	\$921	\$200
001618	Power Cable (100') for New Portable Generatc	6/30/2008	\$2,397	5	0	\$3,622	\$900
001619	780 Sun Lane Main Extension	10/23/2008	\$12,922	50	36	\$19,523	\$14,100
001621	Magnum Towable Light Tower #83	10/1/2008	\$7,629	5	0	\$11,527	\$2,900
001622	Olive Ridge Subdivision	11/6/2008	\$219,444	50	36	\$331,557	\$238,700
001623	New Beginnings Center	11/6/2008	\$137,358	50	36	\$207,533	\$149,400
001624	Security Upgrades - STP	7/1/2008	\$428,904	25	11	\$648,030	\$285,100
001625	Oak Ridge Estates Ph 2	11/24/2008	\$187,510	50	36	\$283,309	\$204,000
001627	Meadow Park Phase 2	12/31/2008	\$1,330,839	50	36	\$2,010,758	\$1,447,700
001628	Portable Generator w/Trailer #84	12/12/2008	\$28,027	10	0	\$42,346	\$10,600
001629	Hamilton Landing Hangars 7 & 9	1/23/2009	\$146,355	50	37	\$214,416	\$158,700
001630	2009 Peterbilt Crew Truck #508	1/22/2009	\$99,372	10	0	\$145,583	\$36,400
001631	Color Photocopier - Savin	1/23/2009	\$10,448	10	0	\$15,306	\$3,800
001632	Hamilton Marketplace	3/16/2009	\$427,869	50	37	\$626,843	\$463,900
001634	265 Bel Marin Keys	4/16/2009	\$23,707	50	37	\$34,731	\$25,700
001635	Olive Court	5/18/2009	\$61,013	50	37	\$89,387	\$66,100
001636	NUSD Hamilton Elementary Hydrants	5/18/2009	\$112,312	50	37	\$164,542	\$121,800
001637	450/454 School Rd	6/16/2009	\$22,684	50	37	\$33,233	\$24,600
001638	College of Marin PhI	6/25/2009	\$97,991	50	37	\$143,560	\$106,200
001639	Costco Warehouse Expansion	6/30/2009	\$430,984	50	37	\$631,408	\$467,200
001642	MAS90 Accounting Software Conversion	6/30/2009	\$181,063	7	0	\$265,264	\$66,300
001643	Forklift - Hyster H50XM 1-0902-04 (E)	6/30/2009	\$16,378	10	0	\$23,994	\$6,000
001644	CENTER ROAD TANK	6/30/2009	\$2,240,754	50	37	\$3,282,785	\$2,429,300
001645	INCR ROSALIA PRESS/ABANDON HANCOG	6/30/2009	\$102,413	50	37	\$150,038	\$111,000
001646	RWF EXPANSION TO NFPD STATION 2	6/30/2009	\$853,357	50	37	\$1,250,198	\$925,100
001648	ZONE 1 PALMER DRIVE TANK CEQA	6/30/2009	\$2,934,745	50	37	\$4,299,507	\$3,181,600
001650	Outlet Tower Sluice Gate Repair	6/30/2009	\$1,518,222	40	27	\$2,224,249	\$1,501,400
001651	Mains - Potable for RWF	6/30/2009	\$103,305	20	7	\$151,346	\$53,000
001652	Gilead House	8/17/2009	\$41,097	50	37	\$60,209	\$44,600
001653	Digital Recording System	8/31/2009	\$1,975	7	0	\$2,894	\$700
001654	2-Post Auto Lift	8/31/2009	\$4,958	10	0	\$7,263	\$1,800
001655	2010 Ford F150 4x2 Reg Cab PU #512	9/21/2009	\$18,757	5	0	\$27,480	\$6,900
001656	2010 Ford F150 4x4 Reg Cab PU #511	9/21/2009	\$21,129	5	0	\$30,954	\$7,700
001657	Cherry Hill Homes	10/14/2009	\$115,808	50	37	\$169,663	\$125,600
001658	Benesi Land Division	10/22/2009	\$32,100	50	37	\$47,027	\$34,800
001659	Whole Foods	10/27/2009	\$354,707	50	37	\$519,659	\$384,500
001660	Marin Community Clinic	10/28/2009	\$22,970	50	37	\$33,652	\$24,900
001661	BACKHOE/LOADER #86	10/31/2009	\$101,524	10	0	\$148,737	\$37,200
001662	2010 Ford F150 4x2 Reg Cab PU #513	10/30/2009	\$18,261	5	0	\$26,753	\$6,700
001664	901 Sherman Renovation	12/14/2009	\$21,316	50	37	\$31,228	\$23,100
001665	PARTICLE CHARGE ANALYZER	12/15/2009	\$5,490	10	0	\$8,043	\$2,000
001666	Indian Valley Campus PhII	4/19/2010	\$26,664	50	38	\$38,032	\$28,900
001667	Emergency Hose Ramps	5/17/2010	\$6,232	5	0	\$8,889	\$2,200
001668	Hamilton Landing PhII	5/21/2010	\$2,721	50	38	\$3,881	\$2,900
001669	Hamilton Pool Renovation	5/21/2010	\$122,594	50	38	\$174,866	\$132,900
001670	6" Potable Water Hose (450') & Fittings	4/20/2010	\$11,086	5	0	\$15,813	\$4,000
001671	15 Digital Dr Fire Service	6/16/2010	\$36,769	50	38	\$52,447	\$39,900
001672	Hildebrand Land Division	6/30/2010	\$24,546	50	38	\$35,012	\$26,600
001673	Redwood Landfill Scale House	7/7/2010	\$40,244	50	38	\$57,403	\$43,600
001674	Pipeline Extension-Plum Tank to Summers	6/30/2010	\$125,621	50	38	\$179,183	\$136,200
001675	2nd Feed to Amaroli Tank	6/30/2010	\$501,551	50	38	\$715,403	\$543,700
001676	Trumbull PS Expansion/Tank Check Valve	6/30/2010	\$195,850	50	38	\$279,358	\$212,300
001677	Postage Machine w/10LB Scale	10/19/2010	\$6,500	7	0	\$9,271	\$2,300

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001678	Steam Blast Cabinet	11/30/2010	\$4,362	10	0	\$6,222	\$1,600
001679	Steam Cleaner For Brakes	11/30/2010	\$502	10	0	\$716	\$200
001680	Somerston Park	1/20/2011	\$161,978	50	39	\$224,229	\$174,900
001681	350 Hangar Ave Subdivision	1/31/2011	\$186,684	50	39	\$258,430	\$201,600
001682	177 Pacheco Ave Fire Hydrant	4/20/2011	\$49,920	50	39	\$69,105	\$53,900
001683	Barcode Scanning System	3/10/2011	\$25,233	5	0	\$34,930	\$8,700
001684	College of Marin Phase 2	5/19/2011	\$121,712	50	39	\$168,488	\$131,400
001686	DCV Assembly Replacements FY10	9/23/2010	\$12,841	20	8	\$18,316	\$7,300
001687	PB Svc Line Repl-Holstrom Circle/Jan Way	3/31/2011	\$30,362	50	39	\$42,031	\$32,800
001688	4" Storm Drain Lowering-Sunset Pkwy (PB Re	3/1/2011	\$30,259	50	39	\$41,888	\$32,700
001689	Thermal Imager	5/5/2011	\$8,708	5	0	\$12,055	\$3,000
001690	Novato Disposal Fire Service	6/15/2011	\$270,683	50	39	\$374,711	\$292,300
001691	C Street Water Main Extension	6/15/2011	\$359,632	50	39	\$497,844	\$388,300
001692	Relocations for NSD (Wilson/Misc)	6/27/2011	\$67,522	50	39	\$93,472	\$72,900
001693	Cheda Knolls - PB Repl (31 Svcs)	6/30/2011	\$17,759	50	39	\$24,584	\$19,200
001694	Portable Air Compressor-IR/Doosan P185 #87	6/30/2011	\$16,671	5	0	\$23,078	\$5,800
001695	Microsoft Office2010 (37)	6/30/2011	\$12,751	3	0	\$17,651	\$4,400
001696	Ion Chromatograph	6/30/2011	\$68,326	10	0	\$94,585	\$23,600
001697	4" - 12" Valve Tapping System	8/31/2011	\$47,241	5	0	\$65,397	\$16,300
001698	Microsoft Office 2010 23 Licenses	8/31/2011	\$7,926	3	0	\$10,972	\$2,700
001699	Software Server License upgrades (4)	8/31/2011	\$6,247	3	0	\$8,648	\$2,200
001700	Crest Tank	7/1/2011	\$969,875	50	39	\$1,342,615	\$1,047,200
001701	City Paving Coordination FY11	7/1/2011	\$18,373	50	39	\$25,434	\$19,800
001702	So Novato @Sunset Pkwy Main Repl	7/1/2011	\$10,654	50	39	\$14,748	\$11,500
001704	So Petaluma Blvd Water Main Upsize	7/1/2011	\$20,124	50	39	\$27,858	\$21,700
001705	Bel Marin Keys Looping	7/1/2011	\$99,914	50	39	\$138,312	\$107,900
001706	San Domingo Way PB Repl	7/1/2011	\$42,898	50	39	\$59,384	\$46,300
001707	Sanchez Way-PB Repl	7/1/2011	\$54,438	50	39	\$75,359	\$58,800
001708	Leslie/San Blas/Spinosa PB Repl	7/1/2011	\$30,480	50	39	\$42,194	\$32,900
001709	County Reloc-Atherton Ave	7/1/2011	\$9,887	50	39	\$13,687	\$10,700
001710	Sampling Stations (18)-Fy11	7/1/2011	\$19,329	50	39	\$26,757	\$20,900
001711	Inaccurate Meter Repl Program	7/1/2011	\$3,475	30	19	\$4,810	\$3,000
001712	18" Flanged Gate Valve Repl-San Marin & Sar	7/1/2011	\$27,688	50	39	\$38,329	\$29,900
001713	STP BF Meter/Chk Valve-CDPH Grant	7/1/2011	\$107,174	50	39	\$148,363	\$115,700
001715	Cabro Ct Land Division	10/21/2011	\$31,167	50	39	\$43,146	\$33,700
001716	70XEH 70XRIM CLM Tire Changer	10/1/2011	\$6,483	5	0	\$8,975	\$2,200
001717	BioMarin - 46 Galll Drive	11/1/2011	\$185,559	50	39	\$256,873	\$200,400
001718	Novato Sanitary District - Lea Dr Meter	11/28/2011	\$62,516	50	39	\$86,542	\$67,500
001720	North Bay Korean American Presbyterian Chu	1/6/2012	\$100,859	50	40	\$136,046	\$108,800
001721	Buck Institute - Fire Service	2/15/2012	\$41,353	50	40	\$55,780	\$44,600
001722	Bird Netting over Truck Parking Overhang	3/15/2012	\$5,316	15	5	\$7,171	\$2,400
001723	Del ORO Lagoon - PB Repl (21 Svcs)	3/28/2012	\$46,664	50	40	\$62,944	\$50,400
001724	Wonderware License Upgrade	3/7/2012	\$15,789	5	0	\$21,298	\$5,300
001725	2012 Intl 5yd Diesel Dump Truck #514	3/1/2012	\$103,057	10	0	\$139,011	\$34,800
001726	Westamerica Bank	4/12/2012	\$48,209	50	40	\$65,028	\$52,000
001727	C STREET WATER MAIN UPSIZE	5/28/2012	\$28,085	50	40	\$37,883	\$30,300
001728	South Novato Blvd Main Break Repair	6/30/2012	\$374,345	50	40	\$504,945	\$404,000
001729	Chipotle Mexican Grill	6/30/2012	\$31,723	50	40	\$42,791	\$34,200
001730	Warner Creek Senior Housing LP	6/30/2012	\$124,640	50	40	\$168,124	\$134,500
001731	Reservoir Hill Tank Property Transfer	6/30/2012	\$43,014	50	40	\$58,020	\$46,400
001735	Flushing Taps at Zone Valves	9/14/2012	\$34,181	50	40	\$46,106	\$36,900
001736	PB Svc Line Repl-Cavalla Cay-13 Svcs	9/21/2012	\$31,003	50	40	\$41,819	\$33,500
001738	Potable Water Hose & Fittings	10/18/2012	\$4,599	5	0	\$6,204	\$1,600
001739	Portable Air Compressor - 2012 IR Doosan P1	11/30/2012	\$21,286	5	0	\$28,712	\$7,200
001740	2012 Ford F250-4x2 #515	11/30/2012	\$29,481	5	0	\$39,766	\$9,900
001741	2012 Ford F-250 4x2 #516	11/30/2012	\$29,705	5	0	\$40,069	\$10,000
001743	PB Repl-Glen Hill Ct/Bird Ct/Kenwood Ct	1/24/2013	\$51,277	50	41	\$67,438	\$55,300
001744	PB Repl-Lea Drive(13)	1/24/2013	\$16,089	50	41	\$21,160	\$17,400
001745	Circle Bank	1/30/2013	\$52,069	50	41	\$68,480	\$56,200
001746	NSD Del Oro Lagoon PS 12" Main Relocation	2/13/2013	\$66,573	50	41	\$87,555	\$71,800
001747	Hamilton Nursery	3/12/2013	\$70,514	50	41	\$92,739	\$76,000
001748	Center Rd Pipeline in Conflict	3/12/2013	\$44,221	50	41	\$58,159	\$47,700
001749	PB Repl-Garner/Apollo/Oak Forest/Simmons/C	3/21/2013	\$55,726	50	41	\$73,289	\$60,100
001750	7370 Redwood Blvd Retail Building	4/24/2013	\$45,631	50	41	\$60,012	\$49,200
001751	Yard Paving	5/13/2013	\$89,374	15	6	\$117,543	\$47,000
001752	Meter Reading Device/Software/Dock/Power S	1/31/2013	\$6,539	5	0	\$8,599	\$2,100
001753	Meter Reading Device/Software/Dock/Power S	1/31/2013	\$6,539	5	0	\$8,599	\$2,100
001754	Meter Reading Device/Software/Dock/Power S	1/31/2013	\$6,539	5	0	\$8,599	\$2,100
001755	Photocopier	5/31/2013	\$17,473	5	0	\$22,979	\$5,700
001756	Inaccurate Meter Replacement Program	6/18/2013	\$16,175	20	11	\$21,273	\$11,700
001757	Sampling Stations FY13 (6)	6/27/2013	\$30,391	20	11	\$39,970	\$22,000
001758	STP Potable Water Feed Pipeline Rehab	6/27/2013	\$26,807	50	41	\$35,255	\$28,900
001759	DCA Replacements FY13	6/30/2013	\$85,034	20	11	\$111,834	\$61,500

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						Estimated	
001760	Detector Check Assembly Replacements-FY1	6/30/2013	\$76,764	20	11	\$100,958	\$55,500
001761	STP-Chlorine Dioxide Generator	6/30/2013	\$99,794	5	0	\$131,247	\$32,800
001762	Crest Tank #1 Recoat	6/30/2013	\$176,488	20	11	\$232,112	\$127,700
001766	STP-Dairy Nutrient Containment	6/30/2013	\$9,683	5	0	\$12,735	\$3,200
001767	STP-GAC Building Rehab/Paving	6/30/2013	\$22,049	20	11	\$28,999	\$15,900
001768	STP-Spillway Security Improvements	6/30/2013	\$24,763	20	11	\$32,568	\$17,900
001770	RTU Upgrades-Lynwood & Kastania PS/Aque	6/30/2013	\$43,817	20	11	\$57,627	\$31,700
001771	ADA Access PHS1 (Replace Front Entrance C	6/30/2013	\$29,815	25	16	\$39,211	\$25,100
001772	RTU Upgrades-Nunes & Half Moon PS	6/30/2013	\$32,066	20	11	\$42,172	\$23,200
001773	Emergency Power Connections-San Marin,ST	6/30/2013	\$28,238	20	11	\$37,138	\$20,400
001774	Radio Expansion TM Upgr-Bahia,Nunes,Half I	6/30/2013	\$24,111	20	11	\$31,710	\$17,400
001780	RW N Svc Area-Non-ARRA	6/30/2013	\$110,968	50	41	\$145,943	\$119,700
001781	RW N Svc Area-Segment 1	6/30/2013	\$820,743	50	41	\$1,079,422	\$885,100
001782	RW N Svc Area-Segment 2	6/30/2013	\$2,391,026	50	41	\$3,144,622	\$2,578,600
001783	RW N Svc Area-Segment 3	6/30/2013	\$1,984,561	50	41	\$2,610,049	\$2,140,200
001784	RW N Svc Area-North Storage	6/30/2013	\$612,866	50	41	\$806,027	\$660,900
001786	Vacuum Excavator & Trailer #90	6/30/2013	\$65,530	5	0	\$86,184	\$21,500
001787	BMK Cross Connect Upgrades	6/30/2013	\$28,826	50	41	\$37,912	\$31,100
001788	STP Portable Generator Connection	6/30/2013	\$10,000	5	0	\$13,152	\$3,300
001789	Solar Panel Rebuild	6/30/2013	\$43,233	15	1	\$56,859	\$14,200
001790	RTU Upgrades FY13	6/30/2013	\$26,875	20	11	\$35,346	\$19,400
001791	Leveroni Creek Bank Repair	6/30/2013	\$140,002	20	11	\$184,128	\$101,300
001792	Centrisys Rebuild	6/30/2013	\$24,519	20	11	\$32,246	\$17,700
001794	System & Tank Cathodic Protection FY12	6/30/2013	\$5,507	20	11	\$7,243	\$4,000
001795	Pacheco Tank C12 Mixing System	6/30/2013	\$88,204	20	11	\$116,004	\$63,800
001796	Disinfection Bldg Roof Replace	6/30/2013	\$9,957	20	11	\$13,095	\$7,200
001797	Furniture for Maintenance Offices	6/30/2013	\$5,978	5	0	\$7,863	\$2,000
001799	PB Repl-Loma Verde (14 Services) & H Lane	9/1/2013	\$78,161	50	41	\$102,795	\$84,300
001801	Sunset & Cambridge (12" @ 600') Pipeline Re	10/22/2013	\$164,864	50	41	\$216,825	\$177,800
001802	Hamilton Elementary School	11/12/2013	\$260,315	50	41	\$342,361	\$280,700
001803	RW N Svc Area - Onsite Retrofits - Govt	11/25/2013	\$40,889	50	41	\$53,777	\$44,100
001805	San Marin High School Cafeteria	2/12/2014	\$107,903	50	42	\$138,151	\$116,000
001806	Canyon Green	2/28/2014	\$193,645	50	42	\$247,929	\$208,300
001808	Novato High School Cafeteria	4/11/2014	\$99,974	50	42	\$127,999	\$107,500
001809	Flatbet 8x12 on #19	5/7/2014	\$6,768	5	0	\$8,665	\$2,200
001812	GE Portable Flow Meter Kit	5/7/2014	\$8,408	2	0	\$10,765	\$2,700
001813	Watermain Lowering-Novato Sanitary District	4/28/2014	\$5,714	50	42	\$7,316	\$6,100
001814	City Relocation-Redwood Blvd @ Olive Traffic	5/13/2014	\$26,706	50	42	\$34,192	\$28,700
001815	San Ramon Elementary Multi	5/14/2014	\$35,423	50	42	\$45,353	\$38,100
001816	In-N-Out Burger	5/16/2014	\$14,248	50	42	\$18,242	\$15,300
001817	PB Replacement - Clay Ct (9 Services)	6/19/2014	\$28,673	50	42	\$36,711	\$30,800
001818	Indian Valley Road - City Improvements	6/19/2014	\$25,507	50	42	\$32,657	\$27,400
001819	RW N Svc Area-Onsite Retrofit- Construction	6/30/2014	\$234,964	49	41	\$300,831	\$251,700
001821	RW N Svc Area Onsite Retrofits Private	6/30/2014	\$161,317	49	41	\$206,538	\$172,800
001822	RW South Svc Area Phs 1b	6/30/2014	\$3,452,055	49	41	\$4,419,763	\$3,698,200
001823	RW South Svc Area Ph 2	6/30/2014	\$2,162,106	49	41	\$2,768,205	\$2,316,300
001825	RW Expantion South - Retrofits Private	6/30/2014	\$349,834	49	41	\$447,902	\$374,800
001826	Lake Aeration Upgrade	6/30/2014	\$28,088	5	0	\$35,962	\$9,000
001828	DCA Repair/Replace-FY14	6/30/2014	\$115,391	50	42	\$147,738	\$124,100
001829	Digital to Leveroni Looping	6/30/2014	\$111,877	50	42	\$143,239	\$120,300
001830	County PB Repl (19 Svcs,2 Streets)	6/30/2014	\$62,785	50	42	\$80,386	\$67,500
001832	PB Repl-City Measure A, Group 5	6/30/2014	\$146,669	50	42	\$187,785	\$157,700
001833	DeLong to Cain Looping	6/30/2014	\$138,324	50	42	\$177,100	\$148,800
001834	Flushing Taps @ Dead Ends	6/30/2014	\$24,121	50	42	\$30,882	\$25,900
001835	RW Exp South - Bolling Circle PS	6/30/2014	\$107,313	49	41	\$137,396	\$115,000
001836	Reservoir Hill Tank	6/30/2014	\$476,000	49	41	\$609,436	\$509,900
001837	RW Exp South Svc Area Retrofit- Govt	6/30/2014	\$139,543	49	41	\$178,661	\$149,500
001838	RW Exp South Svc Area Ph 1A ARRA	6/30/2014	\$1,476,579	49	41	\$1,890,506	\$1,581,900
001839	RW South Svc Area Ph 1B Claims	6/30/2014	\$33,063	49	41	\$42,332	\$35,400
001840	RW South Svc Area Ph 1A Post Const Mitigati	6/30/2014	\$18,696	49	41	\$23,937	\$20,000
001841	RW Exp North Svc Area Group 2 Site Retrofit	6/30/2014	\$70,685	49	41	\$90,500	\$75,700
001842	RW Exp S Svc Area Group 2 Site Retrofit	6/30/2014	\$200,165	49	41	\$256,276	\$214,400
001843	Inaccurate Meter Repl Prog FY14	6/30/2014	\$8,015	20	12	\$10,262	\$6,200
001844	Server Upgrade FY14 Budget	6/30/2014	\$8,050	7	0	\$10,307	\$2,600
001845	Phone System	6/30/2014	\$22,878	7	0	\$29,292	\$7,300
001846	2015 Int'l 5Yd Dump Truck #519	6/30/2014	\$109,043	10	2	\$139,611	\$34,900
001847	2014 Ford F150 Pickup #517	6/30/2014	\$19,467	5	0	\$24,924	\$6,200
001848	2015 Ford F250 4x4 #518	6/30/2014	\$29,654	5	0	\$37,966	\$9,500
001849	NBWRA Grant Program Admin RW N & S	6/30/2014	\$626,687	49	41	\$802,365	\$671,400
001850	Rudnick Estates	9/26/2014	\$404,003	50	42	\$517,256	\$434,500
001851	City of Novato - Administration Offices	11/21/2014	\$92,403	50	42	\$118,307	\$99,400
001852	2015 John Deere 201K Skip Loader #91	2/23/2015	\$84,700	10	3	\$106,019	\$31,800
001853	Leak Calculator with 3 Data Loggers	2/23/2015	\$17,143	5	0	\$21,458	\$5,400

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001854	Hydraulic Power Grit Utility Saw	2/23/2015	\$6,088	5	0	\$7,620	\$1,900
001855	Start Up Flushing Connection	3/30/2015	\$22,511	50	43	\$28,176	\$24,200
001856	Shell Station-2085 Novato Blvd	4/15/2015	\$32,641	50	43	\$40,857	\$35,100
001857	Indian Valley Golf Club Meter Upgrade	4/16/2015	\$7,308	50	43	\$9,148	\$7,900
001858	Shields Lane 6" Cast Iron (6" @ 1,120')	5/28/2015	\$244,688	50	43	\$306,274	\$263,400
001859	SMART Crossing Rework-Roblar Rd	6/30/2015	\$48,004	50	43	\$60,086	\$51,700
001860	San Marin PS Pump Barrel Leak Repair	6/30/2015	\$16,170	50	43	\$20,239	\$17,400
001861	Atherton Tank Rehab/Recoat/Mixing System	6/30/2015	\$1,693,254	50	43	\$2,119,438	\$1,822,700
001862	PB Repl-Atherton Oaks/Summit Ln (17)	6/30/2015	\$55,163	50	43	\$69,048	\$59,400
001863	STP 18" Transmission Line Assess/Repair	6/30/2015	\$235,301	50	43	\$294,526	\$253,300
001864	PB Repl-Measure A, Group 7 (33)	6/30/2015	\$32,371	50	43	\$40,519	\$34,800
001865	Ashley Ct 2" Thinwall Plastic (6" @ 200')	6/30/2015	\$47,622	50	43	\$59,608	\$51,300
001866	Grant/5th 1" Galvanized Steel (6" @400')	6/30/2015	\$71,890	5	0	\$89,985	\$22,500
001867	Sampling Stations FY15 (6)	6/30/2015	\$29,914	50	43	\$37,443	\$32,200
001868	Emergency Generator Connections	6/30/2015	\$12,297	50	43	\$15,392	\$13,200
001874	SMART Crossing Rework-Hanna Ranch	6/30/2015	\$213,962	50	43	\$267,815	\$230,300
001879	2015 Ford F150 4x4 #521	6/30/2015	\$23,503	5	0	\$29,418	\$7,400
001880	2015 Ford Escape 4x4 #520	6/30/2015	\$30,242	5	0	\$37,854	\$9,500
001881	2015 Nissan 50 2wd Forklift 902.05	6/30/2015	\$31,447	5	0	\$39,361	\$9,800
001883	DCA Repair/Replace - FY15	12/17/2015	\$68,924	50	43	\$86,272	\$74,200
001884	Dr. Dang Dental Office	2/26/2016	\$47,215	50	44	\$57,339	\$50,500
001885	Novato Shell Loop	2/26/2016	\$79,292	50	44	\$96,293	\$84,700
001886	33 Commerical Blvd Fire Service	2/29/2016	\$37,534	50	44	\$45,582	\$40,100
001887	RTU Upgrades - FY14	11/24/2015	\$9,783	20	13	\$12,246	\$8,000
001888	RTU Upgrades - FY15	11/24/2015	\$13,043	20	13	\$16,326	\$10,600
001889	Radio Telemetry	11/24/2015	\$37,661	20	13	\$47,140	\$30,600
001890	Homeward Bound of Marin	4/30/2016	\$83,833	50	44	\$101,808	\$89,600
001891	Light Duty Scanner - Solus Edge	5/1/2016	\$7,669	10	4	\$9,313	\$3,700
001892	Heavy Duty Scanner Prolink Ultra	5/1/2016	\$6,289	10	4	\$7,638	\$3,100
001893	2016 Nissan Frontier #522	5/1/2016	\$23,796	5	0	\$28,898	\$7,200
001894	Novato Dermatology	5/27/2016	\$64,989	50	44	\$78,924	\$69,500
001895	Backflow Device Upgrade - BMK (Bel Marin Kr	6/30/2016	\$15,385	50	44	\$18,684	\$16,400
001896	PB Repl-Grandview (14 Svcs)	6/30/2016	\$38,204	50	44	\$46,395	\$40,800
001897	City Paving Coordination (FY12)	6/30/2016	\$28,835	50	44	\$35,018	\$30,800
001898	RTU - Upgrades FY16	6/30/2016	\$15,022	20	14	\$18,243	\$12,800
001899	Radio Telemetry - FY16	6/30/2016	\$23,148	20	14	\$28,112	\$19,700
001900	Sunset Tank CL2 Mixing System	6/30/2016	\$115,894	20	14	\$140,743	\$98,500
001905	So Novato Blvd - Rowland to Sunset	6/30/2016	\$462,909	50	44	\$562,162	\$494,700
001906	Annode Installations FY13-16	6/30/2016	\$38,959	20	14	\$47,312	\$33,100
001907	Inaccurate Meter Repl FY15 & 16	6/30/2016	\$13,814	20	14	\$16,776	\$11,700
001908	Flushing Taps @ Dead-Ends FY16	6/30/2016	\$33,151	50	44	\$40,259	\$35,400
001910	Office HVAC	6/30/2016	\$25,240	5	0	\$30,652	\$7,700
001911	Watershed Erosion Control	6/30/2016	\$59,370	10	4	\$72,100	\$28,800
001912	AQUEDUCT ENERGY EFFICIENCY PROJE	6/30/2016	\$23,491,499	99	93	\$28,528,366	\$26,799,400
001913	2017 Ford Escape 4x4 #523	6/30/2016	\$25,017	5	0	\$30,381	\$7,600
001914	Manganese Analyzer	6/30/2016	\$12,415	7	1	\$15,077	\$3,800
001915	Backflow Device Upgrade-BMK (FY16)	6/30/2016	\$14,527	50	44	\$17,641	\$15,500
001919	Valley Memorial park - Office Expansion	10/14/2016	\$30,905	50	44	\$37,531	\$33,000
001920	Leak Detector	10/31/2016	\$7,135	5	0	\$8,665	\$2,200
001921	Walnut Meadows Subdivision	11/29/2016	\$174,403	50	44	\$211,797	\$186,400
001922	Mendocino Lane Extension	12/8/2016	\$27,017	50	44	\$32,809	\$28,900
001923	Redwood Landfill Gas to Energy	1/17/2017	\$51,871	50	45	\$60,658	\$54,600
001924	Meter Relocations - Plum St (14 svcs, 1 FH)	1/30/2017	\$58,639	20	15	\$68,573	\$51,400
001925	Novato Chevrolet Improvements	3/2/2017	\$35,506	50	45	\$41,521	\$37,400
001926	Annode Installations - FY17	3/14/2017	\$12,633	20	15	\$14,773	\$11,100
001927	Shell Station Remodel - Redwood	3/27/2017	\$176,271	50	45	\$206,132	\$185,500
001928	Eucalyptus Ave Fire Hydrant	5/17/2017	\$15,630	50	45	\$18,277	\$16,400
001929	2016 Nissan Frontier #524	5/31/2017	\$29,092	5	0	\$34,020	\$8,500
001930	2017 Ford F350 4x4 #525	5/31/2017	\$41,746	10	5	\$48,818	\$24,400
001931	2017 Bobcat T595 Compact Track Loader #93	5/31/2017	\$69,995	10	5	\$81,853	\$40,900
001932	Fittings & House of Emergency Service Conne	5/31/2017	\$5,970	4	0	\$6,981	\$1,700
001933	Mt Burdell Place	6/14/2017	\$83,776	50	45	\$97,968	\$88,200
001934	Novato Children's Center Fire Service	6/14/2017	\$31,874	50	45	\$37,273	\$33,500
001936	Radio Telemetry FY17	6/30/2017	\$20,001	20	15	\$23,389	\$17,500
001937	RTU Upgrades-FY17	6/30/2017	\$14,129	20	15	\$16,523	\$12,400
001938	Deer Island Wet Well Drain	6/30/2017	\$8,457	20	15	\$9,889	\$7,400
001939	P G & E Power to Reservoir Hill	6/30/2017	\$27,599	20	15	\$32,274	\$24,200
001940	STP Discharge 2" Line Repl	6/30/2017	\$9,467	20	15	\$11,071	\$8,300
001941	Rebuild Centrysis Centrifuge @ STP	6/30/2017	\$36,107	20	15	\$42,224	\$31,700
001943	Dam Monitoring Well Repairs	6/30/2017	\$22,033	10	5	\$25,766	\$12,900
001944	Repl PB in Sync w. County Project 2017-01	6/30/2017	\$16,248	50	45	\$19,000	\$17,100
001946	DCA Repair/Replace	6/30/2017	\$79,805	50	45	\$93,324	\$84,000
001947	Upgrade Laboratory Sample Master Informati	6/30/2017	\$64,697	7	2	\$75,657	\$21,600

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001948	45 Leveroni Ct-Fire Svc	9/14/2017	\$32,146	50	45	\$37,592	\$33,800
001949	Car Wash and Propane Fill Station	9/26/2017	\$68,452	50	45	\$80,048	\$72,000
001958	35 Leveroni Ct-Biomarin	10/24/2017	\$36,076	50	45	\$42,188	\$38,000
001960	ZONE A PRESSURE IMPROVEMENTS-BMK	2/28/2018	\$382,524	50	46	\$434,174	\$399,400
001962	Grant Avenue Bridge Pipeline Replacement	5/16/2018	\$122,597	50	46	\$139,151	\$128,000
001963	1305 Grant Avenue Fire Service	5/17/2018	\$28,977	50	46	\$32,889	\$30,300
001964	Radio Telemetry FY18	6/30/2018	\$19,805	50	46	\$22,479	\$20,700
001966	Tank Access Hatch/Level Alarms	6/30/2018	\$96,508	50	46	\$109,539	\$100,800
001968	Center Rd 6" CIP (8' @ 1,300)	6/30/2018	\$573,824	50	46	\$651,305	\$599,200
001969	PB Repl: Margaret/Arlene/Susan/Hector/Lagu	6/30/2018	\$51,485	50	46	\$58,437	\$53,800
001970	Dell PoweEdge R730 Server - Virtual Server	6/30/2018	\$8,600	5	1	\$9,761	\$2,400
001971	2018 Ford Transit Connect Cargo Van #526	6/30/2018	\$31,528	5	1	\$35,785	\$8,900
001972	2018 Dodge Ram 2500 4 x 4 #527	6/30/2018	\$26,826	5	1	\$30,449	\$7,600
001973	Temporary Hose for Highline to Connect to W:	6/30/2018	\$6,131	4	0	\$6,958	\$1,700
001974	Novato Theatre	7/1/2018	\$47,946	50	46	\$54,420	\$50,100
001975	86 Hamilton Dr Fire Service	10/22/2018	\$22,775	50	46	\$25,850	\$23,800
001976	San Mateo Tank Recoat	10/30/2018	\$2,083,226	50	46	\$2,364,514	\$2,175,400
001977	PB Repl-Brooke/Robinhood/McIntosh/Charma	10/30/2018	\$92,928	50	46	\$105,476	\$97,000
001978	2019 Chevy Colorado 4X4 #528	11/30/2018	\$33,931	5	1	\$38,513	\$9,600
001979	Digital Sterilizer	11/30/2018	\$13,864	10	6	\$15,736	\$9,400
001980	2018 Polaris ELXD Flatbed Electric Vehicle Gf	11/30/2018	\$14,909	5	1	\$16,922	\$4,200
001981	CHASE BANK-402 IGNACIO BLVD	12/6/2018	\$62,059	50	46	\$70,438	\$64,800
001982	Stafford Dam Spillway Repairs	2/26/2019	\$79,779	50	47	\$88,790	\$83,500
001983	REPLACE SHADY LANE SERVICE SADDLE:	3/19/2019	\$31,370	50	47	\$34,914	\$32,800
001984	Novato Village	4/29/2019	\$81,997	50	47	\$91,258	\$85,800
001985	Ridge Road Pipe Replacement 6" ACP	5/16/2019	\$815,646	50	47	\$907,772	\$853,300
001988	STP Coat Concrete Clearwells	5/21/2019	\$562,483	25	22	\$626,015	\$550,900
001989	All Saints Lutheran Church Daycare	5/21/2019	\$25,668	50	47	\$28,567	\$26,900
001990	405 Gage Ln-Maeiro Land Division	6/30/2019	\$23,363	50	47	\$26,002	\$24,400
001991	College of Marin (IVC) Admin Bldg 11	6/30/2019	\$27,844	50	47	\$30,989	\$29,100
001993	STP-SCADA Upgrade	6/30/2019	\$6,174	5	2	\$6,871	\$2,700
001994	STP-Bird Netting	6/30/2019	\$16,445	5	2	\$18,302	\$7,300
001997	Replacement in Sync with City- Lamont Ave	6/30/2019	\$8,302	50	47	\$9,239	\$8,700
001998	Country Lane Pipeline Replacement (6" @ 400	6/30/2019	\$164,688	50	47	\$183,289	\$172,300
001999	Bel Marin Keys/101 Ramp Repair	6/30/2019	\$48,379	50	47	\$53,843	\$50,600
002000	Montego Keys Pipeline Replacement	6/30/2019	\$119,294	50	47	\$132,768	\$124,800
002001	Wildhorse Valley Tank - PG&W Svc Relocation	6/30/2019	\$33,900	50	47	\$37,729	\$35,500
002003	DCA Repair/Replace FY-18	6/30/2019	\$131,448	50	47	\$146,295	\$137,500
002004	DCA Repair/Replace FY19	6/30/2019	\$24,244	50	47	\$26,982	\$25,400
002005	2019 Ford F550 4x2 Reg Cab/Chassis (3yd dt	6/30/2019	\$65,095	5	2	\$72,447	\$29,000
002006	Pipe Locator Replacement	6/30/2019	\$5,863	4	1	\$6,526	\$1,600
002007	Power Plugs and Cord for Emergency Genera	6/30/2019	\$6,122	4	1	\$6,814	\$1,700
002008	#97 2019 Ditch Witch HX75	8/28/2019	\$116,965	10	7	\$130,176	\$91,100
002009	#96 2019 Generac Mobile 100KW Generator	7/21/2019	\$58,373	4	1	\$64,966	\$16,200
002010	#94 2019 Generac Mobile 45KW Generator	7/21/2019	\$37,216	4	1	\$41,419	\$10,400
002011	#95 2019 Generac Mobile 45KW Generator	7/21/2019	\$37,216	4	1	\$41,419	\$10,400
002012	Generator Cord for Emergency Generators 40	7/30/2019	\$6,116	4	1	\$6,807	\$1,700
002013	Blue Barn	1/24/2020	\$27,659	50	48	\$30,288	\$29,100
002015	Radio Read Meter Retrofit	6/30/2020	\$5,794,402	50	48	\$6,345,197	\$6,091,400
002016	STP High Service Road Repair	6/30/2020	\$14,673	15	13	\$16,067	\$13,900
002017	STP Dam Concrete Apron Repairs	6/30/2020	\$250,211	50	48	\$273,995	\$263,000
002018	STP Emergency Power Generator	6/30/2020	\$147,667	20	18	\$161,704	\$145,500
002019	Backwash Pond 30" Isolation Valve	6/30/2020	\$21,145	50	48	\$23,155	\$22,200
002020	Quick connects-Generators (16)	6/30/2020	\$36,071	20	18	\$39,500	\$35,500
002021	Indian Hills PS-Bypass	6/30/2020	\$7,138	50	48	\$7,817	\$7,500
002022	Lynwood PS Can Rehab	6/30/2020	\$15,708	50	48	\$17,201	\$16,500
002023	Rockrose PS-Bypass	6/30/2020	\$7,511	50	48	\$8,225	\$7,900
002024	San Marin PS Can Rehab	6/30/2020	\$28,056	50	48	\$30,722	\$29,500
002025	Office Roof Renovation	6/30/2020	\$206,672	20	18	\$226,318	\$203,700
002026	Giacomini Exterior Paint	6/30/2020	\$9,800	10	8	\$10,732	\$8,600
002027	Smartcrossing Rework-Golden Gate	6/30/2020	\$46,704	50	48	\$51,144	\$49,100
002033	Cherry Hill Tank #2 Recoat	6/30/2020	\$385,833	50	48	\$422,509	\$405,600
002034	DCA Repair/Replace FY20	6/30/2020	\$89,725	50	48	\$98,254	\$94,300
002035	RP Repl-Lanham Village (32)	6/30/2020	\$105,615	50	48	\$115,655	\$111,000
002036	PB Repl-Marin Country Club Estates (23)	6/30/2020	\$111,243	50	48	\$121,817	\$116,900
002037	PB Repl-Hatch Rd & Mill Rd (13)	6/30/2020	\$42,087	50	48	\$46,087	\$44,200
002038	Crest Rd Main Replacement	6/30/2020	\$65,752	50	48	\$72,002	\$69,100
002039	Novato Fair Shopping Center-Backflow	6/30/2020	\$8,862	50	48	\$9,705	\$9,300
002040	RW Expansion to Central Area	6/30/2020	\$1,095,783	50	48	\$1,199,944	\$1,151,900
002041	RW Expansion to Central Area-Private Onsite	6/30/2020	\$867,892	50	48	\$950,391	\$912,400
002042	RW Expansion to Central Area-Public Onsite F	6/30/2020	\$29,338	50	48	\$32,127	\$30,800
002043	RW Expansion to Central Area-Eastside Cons	6/30/2020	\$4,077,931	50	48	\$4,465,564	\$4,286,900
002044	RW Expansion to Central Area-Rowland Way	6/30/2020	\$353,862	50	48	\$387,499	\$372,000

**North Marin Water District
Asset Listing
As of July 31, 2022
Novato Service Area & Recycled Water**

						Estimated	
002045	RW Expansion to Central Area-Westside Cons	6/30/2020	\$6,875,264	50	48	\$7,528,801	\$7,227,600
002046	RW Expansion to Central Area-Norman Tank I	6/30/2020	\$1,124,445	50	48	\$1,231,330	\$1,182,100
002047	RW Expansion to Central Area-Hwy 101 Cros	6/30/2020	\$854,674	50	48	\$935,916	\$898,500
002048	Color Copier Savin IM C3500 - Engineering	1/1/2020	\$8,015	5	3	\$8,777	\$5,300
002049	Oakmont Senior Living	9/16/2020	\$125,602	50	48	\$137,541	\$132,000
002050	20 Leveroni Ct	9/18/2020	\$8,633	50	48	\$9,453	\$9,100
002051	1758 Indian Valley Rd Hydrant	9/18/2020	\$44,501	50	48	\$48,731	\$46,800
002052	Park-A-Pup Novato	9/18/2020	\$41,939	50	48	\$45,926	\$44,100
002053	College of Marin-Organic Farm	9/24/2020	\$74,687	50	48	\$81,786	\$78,500
002054	Petaluma Blvd So Self Storage	10/28/2020	\$90,554	50	48	\$99,162	\$95,200
002055	Hamilton Cottages	10/28/2020	\$185,802	50	48	\$203,463	\$195,300
002056	McPhails Commercial Development	10/28/2020	\$244,505	50	48	\$267,747	\$257,000
002057	College of Marin-Jonas Center	10/28/2020	\$82,808	50	48	\$90,679	\$87,100
002058	2020 Walton Tilt Trailer 72D or 72-04	10/1/2020	\$9,352	5	3	\$10,241	\$6,100
002059	2020 Walton Dump Trailer 72E or 72-05	11/1/2020	\$7,724	5	3	\$8,459	\$5,100
002060	Metals Analyzer	10/1/2020	\$61,053	10	8	\$66,856	\$53,500
002061	NUSD-GMO Facility	3/17/2021	\$33,413	50	49	\$34,575	\$33,900
002062	SMART-Hamilton Station	3/25/2021	\$55,321	50	49	\$57,246	\$56,100
002063	Repl Plastic Thin-Walled PVC Pipe <4 Inches:	6/3/2021	\$16,307	50	49	\$16,874	\$16,500
002064	Repl Plastic Thin-Walled PVC Pipe < 4 Inches	6/3/2021	\$164,332	50	49	\$170,049	\$166,600
002065	Jerry's Delicatessen	6/3/2021	\$16,922	50	49	\$17,510	\$17,200
002066	Novato Public Library Fire Svc	6/3/2021	\$78,345	50	49	\$81,071	\$79,400
002067	Steam Scrubber and Glassware Washer Rack	5/31/2021	\$9,696	10	9	\$10,033	\$9,000
002068	2020 Cart-Away Concrete Mixing Trailer 72-0f	1/31/2021	\$26,913	5	4	\$27,849	\$22,300
002069	Avesta Novato	7/15/2021	\$75,107	50	49	\$77,720	\$76,200
002071	Loop South/North Zone 2-Indian Valley Campu	6/30/2021	\$8,612	50	49	\$8,912	\$8,700
002073	STP-Coat Top of Concrete Clearwells	6/30/2021	\$145,606	50	49	\$150,672	\$147,700
002074	PB Repl-San Ramon/Vivian/Verissimo (21)	6/30/2021	\$82,276	50	49	\$85,139	\$83,400
002075	PB Repl-Vineyard/San Joaquin/Brooke/Tangle	6/30/2021	\$44,198	50	49	\$45,736	\$44,800
002076	Gateway Commons Fire Service	7/27/2021	\$12,129	50	49	\$12,551	\$12,300
002078	Facilities Security Enhancements	8/24/2021	\$68,635	20	19	\$71,022	\$67,500
002079	Repl Chlorine Control	8/24/2021	\$10,787	10	9	\$11,162	\$10,000
002080	NBWRA GRANT ADMIN-RW CENTRAL ARE.	9/10/2021	\$381,066	49	48	\$394,324	\$386,300
002081	2019 Nissan Rogue - Enterprise Lease #531	6/21/2019	\$26,289	5	2	\$29,259	\$11,700
002083	2019 Nissan Frontier - Enterprise Lease #533	6/21/2019	\$30,278	5	2	\$33,697	\$13,500
002084	2019 Ford F-150 - Enterprise Lease #534	8/28/2019	\$25,985	5	2	\$28,920	\$11,600
002085	2019 Ford F-150 - Enterprise Lease #535	9/18/2019	\$29,934	5	2	\$33,315	\$13,300
002086	2020 Chevrolet Colorado - Enterprise Lease #	4/10/2020	\$27,212	5	3	\$29,798	\$17,900
002087	2020 Ford F-250 - Enterprise Lease #537	4/10/2020	\$34,688	5	3	\$37,985	\$22,800
002088	2020 Ford F-250 - Enterprise Lease #538	4/17/2020	\$36,746	5	3	\$40,239	\$24,100
002089	2020 Ford F-150 - Enterprise Lease #539	5/1/2020	\$26,917	5	3	\$29,475	\$17,700
002090	2020 Ford F-150 - Enterprise Lease #540	5/1/2020	\$30,491	5	3	\$33,389	\$20,000
002091	2021 Nissan Rogue - Enterprise Lease #541	6/23/2021	\$28,572	5	4	\$29,566	\$23,700
002092	2021 Nissan Frontier - Enterprise Lease #542	6/23/2021	\$34,192	5	4	\$35,381	\$28,300
002094	3357 Petaluma Blvd So-Fontes	11/8/2021	\$5,151	50	49	\$5,330	\$5,200
002095	3351 Petaluma Blvd So-Yee	11/10/2021	\$5,169	50	49	\$5,349	\$5,200
002096	Repl 6" AC Pipe (810)-Glen Rd	11/10/2021	\$256,513	50	49	\$265,437	\$260,100
002097	Marin Biologic Lab-Fire Service	11/12/2021	\$27,396	50	49	\$28,349	\$27,800
002099	2021 Ford Ranger - Enterprise Lease #543	7/13/2021	\$31,079	5	4	\$32,161	\$25,700
002100	2021 Ford F150 - Enterprise Lease #544	11/12/2021	\$29,390	5	4	\$30,413	\$24,300
002101	20221 Ford F150 -Enterprise Lease #545	11/12/2021	\$29,245	5	4	\$30,262	\$24,200
002102	2021 Ford F150 4x4-Enterprise Lease #546	1/4/2022	\$33,283	5	5	\$32,267	\$32,300
002103	2021 International Dump Truck #547	2/23/2022	\$123,931	10	10	\$120,149	\$120,100
002104	Welder-Multimatic	4/1/2022	\$5,600	4	4	\$5,429	\$5,400
002105	Particle Charge Analyzer	7/1/2021	\$7,645	5	4	\$7,911	\$6,300
002106	Repl CI Pipe with PVC-Grant Ave	5/20/2022	\$218,702	50	50	\$212,027	\$212,000
002107	PB Repl-San Marin Dr/Ignacio Blvd	5/20/2022	\$83,077	50	50	\$80,541	\$80,500
002108	Crest Tank Radio Building Roof	6/30/2022	\$14,547	20	20	\$14,103	\$14,100
002110	STP-HSPS Pipe Repair	6/30/2022	\$10,808	50	50	\$10,478	\$10,500
002111	Trumbull PS Repl Pump Flange	6/30/2022	\$13,634	50	50	\$13,218	\$13,200
002113	Truck Load Expansion 2021	6/30/2022	\$26,444	20	20	\$25,637	\$25,600
002116	PB Repl-Leveroni/Tyler	6/30/2022	\$26,479	50	50	\$25,671	\$25,700
002117	PB Repl-Pacheco Valley HOA	6/30/2022	\$36,359	50	50	\$35,250	\$35,200
002119	Spring Brook Green Homes	7/22/2022	\$49,931	50	50	\$48,408	\$48,400
002120	385 Bel Marin Keys Blvd	7/22/2022	\$52,845	50	50	\$51,232	\$51,200
002121	Starbucks Coffee-Redwood Blvd	7/22/2022	\$36,781	50	50	\$35,659	\$35,700
002122	McPhails Commercial Office PH2	7/22/2022	\$88,142	50	50	\$85,452	\$85,500
002123	Easi File	6/30/2022	\$39,621	5	5	\$38,412	\$38,400
002124	Canon Image PROGRAF Large Format Printe	6/30/2022	\$11,930	5	5	\$11,565	\$11,600
002125	Tidal Waver Mixer for Black Point Tank	6/30/2022	\$14,500	5	5	\$14,057	\$14,100
002126	Buck Institute Lease	6/30/2022	\$167,344	na	na	\$162,237	\$162,200
002127	100 Wood Hollow Lease	6/30/2022	\$420,347	na	na	\$407,518	\$407,500
TOTALS:			\$190,752,443			\$478,178,010	\$236,493,800

APPENDIX C

Novato Water and Recycled Water Capital Spending (1 of 2)

	Spending 2022 - 2035	Capacity Related	Capacity Costs	Fire Protection Related	Growth- Related Costs
1. PIPELINES					
Pipeline Improvements					
1 Loop Zone Mall Area Near Nave Ct. / S. Novato w/ 8" (605 LF)	\$275,000	100%	\$275,000	75%	\$68,750
2 Novato Blvd. Widening - Diablo to Grant (4,100 LF)	\$2,500,000	15%	\$375,000	25%	\$281,250
3 Loop Los Robles Rd. and Posada Del Sol (230 LF)	\$125,000	100%	\$125,000	50%	\$62,500
4 San Mateo Tank 24" Transmission Main	\$1,328,000	100%	\$1,328,000	50%	\$664,000
5 Loop BMK Commercial Zone w/ 16" (2,000 LF)	\$1,300,000	100%	\$1,300,000	50%	\$650,000
6 30-inch Main at Rush Creek/Golden Gate Place	\$300,000	100%	\$300,000	50%	\$150,000
7 Loop Zone 2 at Hill Road w/ 8" (2,500 LF)	\$850,000	100%	\$850,000	50%	\$425,000
8 Loop Southern & Northern Zone 2 at IVC w/ 16" (5,280 LF)	\$2,000,000	100%	\$2,000,000	50%	\$1,000,000
9 Loop Redwood Blvd. at Lamont w/ 12" (1,000 LF)	\$500,000	100%	\$500,000	50%	\$250,000
10 Loop So. & No. Zone 1 at Entrada w/ 16" (4,500 LF)	\$4,500,000	100%	\$4,500,000	50%	\$2,250,000
11 Loop BMK Residential Zone w/ 16" (5,500 LF)	\$5,500,000	100%	\$5,500,000	50%	\$2,750,000
12 Loop Crest Zone at Channel Ave. w/ 8" (2,700 LF)	\$1,200,000	100%	\$1,200,000	50%	\$600,000
13 Loop near Grant Ave. & Eighth St. w/ 8" (275 LF)	\$100,000	100%	\$100,000	50%	\$50,000
14 Connect Dead-ends at George St. w/ 8" (290 LF)	\$100,000	100%	\$100,000	25%	\$75,000
Pipeline Replacements					
15 Replace 12" Pipe S. Novato Blvd. (785 LF)	\$250,000	0%	\$0	0%	\$0
16 Relocate 8" Pipe - County Club Dr. (1,700 LF)	\$850,000	10%	\$85,000	50%	\$42,500
17 Upsize 8" Pipe - Arthur Ave. (btwn Cambridge/NHS)	\$340,000	0%	\$0	0%	\$0
18 Upsize to 8" Pipe - E. Black Point Subzone (3,580 LF)	\$1,800,000	0%	\$0	0%	\$0
19 Upsize to 8" Pipe - E. Crest Subzone (3,040 LF)	\$1,500,000	0%	\$0	0%	\$0
20 Replace 18" Pipe - Stafford Transmission Line (14,000 LF)	\$4,000,000	50%	\$2,000,000	25%	\$1,500,000
Aqueduct Improvements					
21 MSN B2-Utility Agreement Costs	\$24,000	0%	\$0	0%	\$0
22 Upsize North Marin Aqueduct from 30" to 42" (2.6 miles)	\$12,500,000	50%	\$6,250,000	25%	\$4,687,500
Other Pipeline Projects					
23 Sync w/ City or County Paving	\$975,000	0%	\$0	0%	\$0
24 Replace Galvanized Steel Pipe (200 LF/yr)	\$250,000	0%	\$0	0%	\$0
25 Polybutylene (PB) Service Line Replacements	\$650,000	0%	\$0	0%	\$0
26 Replace Plastic Thin Walled Pipe (< 4-inch)	\$1,950,000	0%	\$0	0%	\$0
27 Other Main Replacements (60+ years old)	\$2,600,000	0%	\$0	0%	\$0
28	Subtotal		\$48,267,000		\$26,788,000
					\$15,506,500
2. STORAGE TANKS & PUMP STATIONS					
Tank Rehabilitation / Replacement					
29 Fire Flow Backfeed Valve - Nunes Tank	\$200,000	0%	\$0	0%	\$0
30 Recoating - Garner Tank	\$170,000	0%	\$0	0%	\$0
31 Seismic Upgrade / Coating - Lynwood Tanks (x2)	\$2,000,000	0%	\$0	0%	\$0
32 Remove Tank - Woodland Heights Tank	\$100,000	0%	\$0	0%	\$0
33 Remove Tank - Old Ranch Rd. Tank (No. 1)	\$100,000	0%	\$0	0%	\$0
34 Remove Tank - Loma Verde Tank	\$100,000	0%	\$0	0%	\$0
35 New Property Site Acquisition - Half Moon Tank	\$200,000	0%	\$0	0%	\$0
36 Storage Improvements - Black Point Zone (New Tank)	\$2,000,000	100%	\$2,000,000	50%	\$1,000,000
37 Storage Improvements - Air Base Zone (New Tank)	\$2,000,000	100%	\$2,000,000	50%	\$1,000,000
Pump Station Rehabilitation / Replacement					
38 Lynwood PS Replacement*	\$2,740,000	35%	\$959,000	0%	\$959,000
39 Crest PS Construction (Reloc. School Rd. PS)	\$1,010,000	35%	\$353,500	0%	\$353,500
40 Davies PS Upgrade	\$250,000	0%	\$0	0%	\$0
Hydropneumatic Systems					
41 Hydropneumatic upgrades, Phase 1 (Bahia)	\$800,000	0%	\$0	0%	\$0
42 Hydropneumatic upgrades, Phase 2 (Hayden)	\$800,000	0%	\$0	0%	\$0
43 Hydropneumatic upgrades, Phase 3 (Eagle)	\$800,000	0%	\$0	0%	\$0
Other Tank & Pump Station Improvements					
44 Other Tank & PS Improvements	\$975,000	0%	\$0	0%	\$0
45 Other Tank Recoating	\$2,040,000	0%	\$0	0%	\$0
46 Other Tank Replacement	\$500,000	0%	\$0	0%	\$0
47 Other Tank Seismic Upgrade	\$2,500,000				
48	Subtotal		\$19,285,000		\$5,312,500
					\$3,312,500

APPENDIX C

Novato Water and Recycled Water Capital Spending (2 of 2)

	Spending 2022 - 2035	Capacity Related	Capacity Costs	Fire Protection Related	Growth- Related Costs
3. STAFFORD IMPROVEMENTS					
Stafford Treatment Plant (STP)					
49 Replace Sludge Line to Center Rd. (4" - 4,400LF)	\$450,000	0%	\$0	0%	\$0
50 Other Treatment Plant Improvements	\$700,000	0%	\$0	0%	\$0
51 STP Efficiency Improvements	\$75,000	0%	\$0	0%	\$0
52 Water Supply Enhancement - STP Modifications	\$400,000	0%	\$0	0%	\$0
Stafford Dam / Watershed					
53 Dam Concrete Apron Repair	\$750,000	0%	\$0	0%	\$0
54 Leveroni Creek Embankment Repair	\$175,000	0%	\$0	0%	\$0
55 Raw Water Intake Modifications	\$2,700,000	0%	\$0	0%	\$0
56 Water Supply Enhancement - Dam	\$1,550,000	100%	\$1,550,000	0%	\$1,550,000
57 Subtotal	\$6,800,000		\$1,550,000		\$1,550,000
4. MISCELLANEOUS IMPROVEMENTS (NOVATO)					
District Offices					
58 NMWD Headquarters Upgrade	\$15,000,000	0%	\$0	0%	\$0
59 Construction Building Upgrade	\$800,000	0%	\$0	0%	\$0
60 Program Assessment for Yard Site Improvements	\$875,000	0%	\$0	0%	\$0
61 Repave Parking Lot	\$64,000	0%	\$0	0%	\$0
System Pressure / Valving					
62 San Marin Aqueduct Valve Pit (STP to Zone 2)	\$1,250,000	50%	\$625,000	50%	\$312,500
63 Pressure Reducing Station - Fairway Dr. & Capilano Dr.	\$500,000	100%	\$500,000	50%	\$250,000
64 Pressure Reducing Station - Harbor Dr.	\$500,000	100%	\$500,000	50%	\$250,000
65 Pressure Regulating Station - Black Pt.	\$500,000	100%	\$500,000	50%	\$250,000
66 Pressure Reducing Station - Park Crest	\$500,000	100%	\$500,000	50%	\$250,000
67 Pressure Reducing Station - Feliz & Ferris Dr.	\$500,000	100%	\$500,000	50%	\$250,000
68 Pressure Reducing Station - Arthur & Washington	\$500,000	100%	\$500,000	50%	\$250,000
Other Miscellaneous Improvements					
69 Backflow Protection - DCDA Repair / Replace (Annual)	\$1,300,000	0%	\$0	0%	\$0
70 Cathodic Protection - Anode Installation (Annual)	\$130,000	0%	\$0	0%	\$0
71 Other System Improvements	\$2,600,000	25%	\$650,000	50%	\$325,000
72 Subtotal	\$25,019,000		\$4,275,000		\$2,137,500
5. Sonoma County Water Agency Projects					
78 SCWA Capacity Improvements (NMWD's Share)	\$37,667,930	100%	\$37,667,930	0%	\$37,667,930
79 Subtotal	\$37,667,930		\$37,667,930		\$37,667,930
5. RECYCLED WATER SYSTEM (NOVATO)					
80 Replace CI in Atherton Ave. (1,320 LF)	\$350,000	0%	\$0	0%	\$0
81 Leak Repair - Reservoir Hill Tank	\$100,000	0%	\$0	0%	\$0
82 Other Recycled Water Improvements	\$2,300,000	0%	\$0	0%	\$0
83 Subtotal	\$2,750,000		\$0		\$0
84 Total Cost for Novato and RW System (2022 - 2035)	\$139,788,930		\$75,593,430		\$60,174,430

**North Marin Water District
Asset Listing
As of July 31, 2022
West Marin Service Area**

System #	Description	Acquisition Date	Acquired Value	Estimated Life	Remaining Life	Estimated	
						Replacement Cost	RCNLD
001566	100,000 Gal Redwood Tank-WM	10/22/2007	\$399,707	50	35	\$629,928	\$440,900
000777	12575 SIR FRANCIS DRAKE BLVD	2/1/1993	\$8,070	50	21	\$19,449	\$8,200
000349	12700 State Rt 1-Doughty	4/1/2002	\$4,520	50	30	\$8,680	\$5,200
000789	15 SUNNYSIDE DR HYDRANT/1	6/1/1995	\$6,517	50	23	\$14,955	\$6,900
000146	25 BUCK PT RD (P.R.E.)	11/1/1992	\$540	1	0	\$1,360	\$300
000846	2nd Large Filter	7/1/1998	\$73,187	20	0	\$155,220	\$38,800
000663	2ND PUMP STATION CONTROLS-OL	7/1/1993	\$784	1	0	\$1,889	\$500
000527	40 Fox Drive Fire Hydrant	6/1/1998	\$13,365	50	26	\$28,346	\$14,700
001546	75 LAUREL ST-MINOR RESIDENCE	9/20/2007	\$28,664	50	35	\$45,175	\$31,600
000442	ACCOUSTIC BARRIERS-INVERNSS PS	6/1/1994	\$182	1	0	\$422	\$100
000494	ACCOUSTIC BARRIERS-INVERNSS PS	6/1/1994	\$332	11	0	\$771	\$200
000670	ACCOUSTIC BARRIERS-INVERNSS PS	6/1/1994	\$1,342	25	0	\$3,115	\$800
000474	ADDITIONAL SOURCE WELL	9/1/1988	\$468	1	0	\$1,300	\$300
000558	ADDITIONAL SOURCE WELL	9/1/1988	\$935	1	0	\$2,598	\$600
000581	ADDITIONAL SOURCE WELL	9/1/1988	\$3,793	40	6	\$10,538	\$2,600
000587	ANCHOR 2 REDWOOD TANKS-PRE	6/1/1992	\$1,057	50	20	\$2,662	\$1,100
000575	ANNEX 8 TO PR-2,ANNEX 7 TO PR3	9/1/1994	\$1,224	50	22	\$2,841	\$1,200
000338	Annex to Imp Dist-12700 Sir Francis Dr	6/1/1998	\$2,966	50	26	\$6,290	\$3,300
000497	ANNEXATION #5/IMP DIST #PRE-1	1/1/1987	\$986	1	0	\$2,811	\$700
000671	ANNEXATION #6 TO I.D. PRE 1	7/1/1991	\$700	1	0	\$1,817	\$500
000567	ANNEXATION #7 TO I.D. #PRE-1	4/1/1992	\$923	1	0	\$2,325	\$600
001569	BAR-OR Subdivision	11/26/2007	\$17,744	50	35	\$27,964	\$19,600
000334	Bean Land Division	6/1/2002	\$3,977	50	30	\$7,638	\$4,600
000702	BEAR VALLEY DIVISION OF LAND	1/1/1989	\$12,004	50	17	\$32,658	\$11,100
000120	BEAR VALLEY PS UPGRADE	9/1/2004	\$88,027	25	7	\$155,337	\$43,500
000437	BEAR VALLEY ROAD ANNEXATION	1/1/1987	\$1,910	50	15	\$5,443	\$1,600
000507	BEAR VALLEY SPARE PUMP	6/1/1986	\$933	1	0	\$2,727	\$700
000696	BEAR VALLEY/SILVER FIRE PROTECTION MC	9/1/1997	\$34,100	50	25	\$73,489	\$36,700
000465	Blue Slide Art Tile	4/1/2002	\$13,015	50	30	\$24,993	\$15,000
000490	CHLORINATOR IMPROVEMENTS	6/1/1989	\$284	1	0	\$773	\$200
000512	CHLORINATOR IMPROVEMENTS	6/1/1989	\$2,306	20	0	\$6,274	\$1,600
000554	CHLORINATOR IMPROVEMENTS	6/1/1989	\$569	1	0	\$1,548	\$400
000584	COAST GUARD PUMP REWIRING	9/1/1988	\$1,196	25	0	\$3,323	\$800
000676	COAST GUARD PUMP REWIRING	9/1/1988	\$9,700	25	0	\$26,950	\$6,700
000680	COAST GUARD PUMP REWIRING	9/1/1988	\$2,392	25	0	\$6,646	\$1,700
001831	County PB Repl (7 Svcs, 1 Street)	6/30/2014	\$12,332	50	42	\$15,789	\$13,300
000219	CYPRESS AVE LAND DIV	6/1/1985	\$1,388	50	13	\$4,154	\$1,100
000697	CYPRESS AVE LAND DIVISION	1/1/1987	\$7,780	50	15	\$22,170	\$6,700
000051	DANCE PALACE ADDITIONS	6/1/1990	\$8,553	50	18	\$22,694	\$8,200
000468	DCV ASSEMBLIES - FY 83/84	6/1/1984	\$238	1	0	\$720	\$200
000486	DCV ASSEMBLIES FY 85/86	6/1/1986	\$689	1	0	\$2,015	\$500
000528	DCV ASSEMBLIES FY 85/86	6/1/1986	\$1,339	50	14	\$3,913	\$1,100
000456	DCV FY 88/89	6/1/1989	\$1,104	50	17	\$3,003	\$1,000
000580	DICK LAND DIVISION	3/1/2006	\$49,739	50	34	\$80,596	\$54,800
001084	DISTRIBUTION SYSTEM	2/1/1975	\$167,688	50	3	\$951,813	\$238,000
001287	DISTRIBUTION SYSTEM	5/1/1981	\$715,533	50	9	\$2,541,417	\$635,400
001322	DISTRIBUTION SYSTEM	10/1/1979	\$1,172,116	50	7	\$4,900,619	\$1,225,200
000265	DOUBLE CHECK VALVES - 84/85	6/1/1985	\$351	5	0	\$1,051	\$300
000384	Drakes View Hydrant/Wtr Svc	4/1/2002	\$5,718	50	30	\$10,981	\$6,600
000818	DRUID'S HALL MULTI-FAMILY CONV	5/1/1995	\$8,194	50	23	\$18,804	\$8,600
001869	Emergency Generator Connections-WM	6/30/2015	\$20,958	50	43	\$26,233	\$22,600
000496	FLOW METER,PUMP STATION #2	6/1/1986	\$1,534	25	0	\$4,483	\$1,100
000720	Fox Drive Fire Loop	6/1/1997	\$25,819	50	25	\$55,642	\$27,800
000930	FOX DRIVE LAND DIVISION	3/1/1994	\$20,770	50	22	\$48,222	\$21,200
000386	Fox Drive Water Service	5/1/2001	\$5,282	50	29	\$10,470	\$6,100
001876	Gallagher Well Auxiliary Stream Guage	6/30/2015	\$76,868	50	43	\$96,215	\$82,700
000912	GALLAGHER WELL DESIGN/DEVELOP	6/1/1994	\$9,668	40	12	\$22,446	\$6,700
000956	GALLAGHER WELL DESIGN/DEVELOP	6/1/1994	\$17,659	40	12	\$40,999	\$12,300
001039	GALLAGHER WELL DESIGN/DEVELOP	6/1/1994	\$71,327	40	12	\$165,598	\$49,700
001965	Gallagher Well Motor Operated Valve	6/30/2018	\$13,943	50	46	\$15,826	\$14,600
001878	Gallagher Well Pipeline	6/30/2015	\$1,257,553	50	43	\$1,574,073	\$1,353,700
001877	Gallagher Well Pipeline Design	6/30/2015	\$107,687	50	43	\$134,791	\$115,900
001478	GALLAGHER WELL SITE	1/1/1988	\$0	5	0	\$0	\$0
002030	Green Sand Filter Media Repl	6/30/2020	\$46,469	10	8	\$50,886	\$40,700
001734	Heidrun Meadery	9/11/2012	\$37,483	50	40	\$50,560	\$40,400
000353	INSTALL 2ND PUMP-OLEMA P.S.	6/1/1990	\$347	1	0	\$920	\$200
000420	INSTALL 2ND PUMP-OLEMA P.S.	6/1/1990	\$174	1	0	\$462	\$100
000623	INSTALL 2ND PUMP-OLEMA P.S.	6/1/1990	\$1,410	25	0	\$3,741	\$900
000390	INSTALL 2ND PUMP-PS#1	7/1/1996	\$3,259	25	0	\$7,280	\$1,800
000085	INSTALL 3 STANDBY BOOSTER PUMPS	9/1/2004	\$159,990	25	7	\$282,328	\$79,100
001598	Inverness Park #2 Tank Seismic Upgrades	5/31/2008	\$70,605	50	36	\$106,676	\$76,800

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System #	Description	Acquisition Date	Acquired Value	Estimated Life	Remaining Life	Estimated	
						Replacement Cost	RCNLD
001399	INVERNESS PK P.S. TANK CONTRLS	6/1/1994	\$6,452	7	0	\$14,978	\$3,700
001215	INVERNESS PK P.S. TANK CONTROL	6/1/1994	\$874	7	0	\$2,030	\$500
001270	INVERNESS PK P.S. TANK CONTROL	6/1/1994	\$1,597	7	0	\$3,708	\$900
000091	INVERNESS PUD INTERTIE	1/1/1985	\$17,027	50	13	\$50,962	\$13,300
001882	Koch Single Family Home	11/18/2015	\$28,669	50	43	\$35,885	\$30,900
000559	KYLESWOOD PL MAIN EXTENSION	3/1/2005	\$25,362	50	33	\$42,766	\$28,200
001467	LAND & LAND RIGHTS	1/1/1948	\$18,312	5	0	\$498,732	\$124,700
001468	LAND & LAND RIGHTS	1/1/1948	\$887	5	0	\$24,161	\$6,000
001469	LAND & LAND RIGHTS	1/1/1948	\$16,212	5	0	\$441,542	\$110,400
000096	LAUREL AVENUE EXTENSION	1/1/1985	\$17,427	50	13	\$52,160	\$13,600
000393	Laurel Street Extension	12/1/2001	\$14,364	50	29	\$28,473	\$16,500
000089	LOS REYES SUBDIVISION	6/1/1985	\$17,875	50	13	\$53,499	\$13,900
000687	LOW RANGE TURBIDIMETER	6/1/1991	\$1,608	40	9	\$4,177	\$1,000
000207	MANANA WAY HYDRANT/WTR SVC	11/1/2004	\$24,833	50	32	\$43,823	\$28,000
000257	MESA RD APARTMENTS	1/1/2006	\$7,755	50	34	\$12,567	\$8,500
000541	MESA RD LAND DIVISION	1/1/1986	\$2,013	50	14	\$5,885	\$1,600
000695	MESA ROAD DIVISION OF LAND	9/1/1987	\$9,098	50	15	\$25,926	\$7,800
000783	MESA ROAD LAND DIVISION	6/1/1995	\$6,298	50	23	\$14,454	\$6,600
000511	MOD SOURCE PUMP FACILITIES	3/1/1987	\$498	1	0	\$1,419	\$400
000606	MOD SOURCE PUMP FACILITIES	3/1/1987	\$997	1	0	\$2,841	\$700
000613	MOD. SOURCE PUMPING FACILITIES	3/1/1987	\$4,043	25	0	\$11,521	\$2,900
000341	MOTEL INVERNESS FIRE HYDRANT	1/1/2000	\$5,281	50	28	\$10,659	\$6,000
000588	NATIONAL PARK SVC RESIDENCE	2/1/1993	\$3,352	50	21	\$8,078	\$3,400
000419	NEW SERVICES - FY 83/84	6/1/1984	\$1,054	50	12	\$3,193	\$800
000603	NEW SERVICES - FY 83/84	6/1/1984	\$2,511	50	12	\$7,603	\$1,900
000617	NEW SERVICES - FY 83/84	6/1/1984	\$3,915	50	12	\$11,855	\$3,000
000601	NEW SERVICES & DCV FY 86/87	6/1/1987	\$3,169	50	15	\$9,032	\$2,700
000578	NEW SERVICES & DCV FY 88/89	6/1/1989	\$4,824	50	17	\$13,123	\$4,500
000492	NEW SERVICES FY 85/86	6/1/1986	\$2,423	50	14	\$7,083	\$2,000
000677	NEW SERVICES FY 86/87	6/1/1987	\$6,393	50	15	\$18,216	\$5,500
000626	NEW SERVICES FY 87/88	6/1/1988	\$5,917	50	16	\$16,441	\$5,300
000524	NEW SERVICES FY 89/90	6/1/1990	\$3,570	50	18	\$9,473	\$3,400
000593	NEW SERVICES FY 89/90	6/1/1990	\$4,668	50	18	\$12,385	\$4,500
000454	NEW SERVICES FY87/88	6/1/1988	\$1,739	50	16	\$4,833	\$1,500
000701	NEW SERVICES FYE 6/91	6/1/1991	\$2,962	50	19	\$7,691	\$2,900
000188	NEW SERVICES, FY 84/85	6/1/1985	\$2,626	50	13	\$7,859	\$2,000
000230	NEW SERVICES, FY 84/85	6/1/1985	\$1,908	50	13	\$5,710	\$1,500
000582	NEW SERVICES/DCV FY 88/89	6/1/1989	\$4,798	50	17	\$13,054	\$4,400
001035	NORTH MARIN HEALTH/HUMAN SVCS	2/1/1993	\$11,830	50	21	\$28,509	\$12,000
001873	Olema PS Flood Protection & RTU Upgrade	6/30/2015	\$39,262	50	43	\$49,144	\$42,300
002032	Olema PS Pump Replacement	6/30/2020	\$7,270	25	23	\$7,961	\$7,300
000837	OLEMA PUMP CONTROLS AUTOMATION	6/1/1994	\$5,000	25	0	\$11,608	\$2,900
000175	OLEMA TANK CEQA CONST	8/1/2006	\$561,782	50	34	\$910,303	\$619,000
001804	in Sync w/County Paving-Balboa/Portola/Mes	1/30/2014	\$59,215	50	42	\$75,814	\$63,700
002029	PB Repl-Drakes View Drive	6/30/2020	\$68,078	50	48	\$74,549	\$71,600
002028	PB Repl-State Route One	6/30/2020	\$14,199	50	48	\$15,549	\$14,900
001733	Perry's Deli Fire Service	9/10/2012	\$28,196	50	40	\$38,032	\$30,400
000840	POINT PEYES LODGE	3/1/1988	\$3,151	50	16	\$8,755	\$2,800
000343	Point Reyes Livery Stable	2/1/2000	\$11,870	50	28	\$23,957	\$13,400
000826	POTTS RESIDENCE	5/1/1994	\$8,662	50	22	\$20,111	\$8,800
002072	PR Repl-SR 1 Pt Reyes-Caltrans	6/30/2021	\$115,432	50	49	\$119,448	\$117,100
001903	PR Tank #2 & 3 Seismic Piping Upgrade	6/30/2016	\$85,876	50	44	\$104,289	\$91,800
001800	PR Well #3 Replacement (aka Well #4)	9/1/2013	\$262,968	40	31	\$345,850	\$268,000
000236	PRE CHLORINATING FACILITIES	4/1/1985	\$2,406	50	13	\$7,201	\$1,900
000258	PRE CHLORINATING FACILITIES	4/1/1985	\$297	1	0	\$889	\$200
000262	PRE CHLORINATING FACILITY(CWM)	4/1/1985	\$593	1	0	\$1,775	\$400
000744	PRE PS Add RTU PANEL	7/1/2002	\$13,818	10	0	\$26,537	\$6,600
000005	PRE TANK #1 (25,000 gal)	4/1/1997	\$21,550	50	25	\$46,443	\$23,200
000006	PRE TANK #2 (25,000 gal)	4/1/1997	\$21,550	50	25	\$46,443	\$23,200
001685	PRE Tank #2 Retaining Wall Repair	5/20/2011	\$45,396	20	9	\$62,843	\$28,300
000002	PRE TANK #4B (50,000 gal)	4/1/1997	\$43,101	50	25	\$92,885	\$46,400
000270	PRE TANK INTERIOR LADDERS(CWM)	6/1/1986	\$18	10	0	\$53	\$0
000306	PRE TANK INTERIOR LADDERS(CWM)	6/1/1986	\$35	20	0	\$102	\$0
000855	PRE TANK INTERIOR LADDERS(CWM)	6/1/1986	\$143	1	0	\$418	\$100
000615	PRE WILDFIRE SVC UPGR #1	5/1/1998	\$20,447	50	26	\$43,365	\$22,500
000376	PRE Wildfire Svc Upgr #2	6/1/2000	\$7,396	50	28	\$14,928	\$8,400
001902	PRE#2 THM Reduction Measures	6/30/2016	\$10,316	50	44	\$12,528	\$11,000
000951	PRE-TANK AA LINING	6/1/1994	\$4,401	20	0	\$10,218	\$2,600
000369	PTP CONTROLS/BACKWASH MODIFICATIOI	7/1/1996	\$1,798	20	0	\$4,017	\$1,000
000435	PTP CONTROLS/BACKWASH MODIFICATIOI	7/1/1996	\$3,057	20	0	\$6,830	\$1,700
000635	PTP CONTROLS/BACKWASH MODIFICATIOI	7/1/1996	\$13,127	20	0	\$29,328	\$7,300

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System #	Description	Acquisition Date	Acquired Value	Estimated Life	Remaining Life	Estimated	
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001578	Pt Reyes Affordable Housing	2/22/2008	\$495,932	50	36	\$749,301	\$539,500
000252	PT REYES FIRE STATION	6/1/1985	\$1,547	50	13	\$4,631	\$1,200
000609	PT REYES MASTER METER	7/1/2006	\$33,294	25	9	\$53,950	\$19,400
000327	PT REYES SINGLE SVC 97/98	10/1/1998	\$1,452	50	26	\$3,080	\$1,600
000863	PT REYES TANK RD EXTENSION	6/1/1992	\$10,625	50	20	\$26,760	\$10,700
000480	PT REYES TP FLOW CONTROL	6/1/1989	\$2,740	20	0	\$7,454	\$1,900
000531	PT REYES TP FLOW CONTROL	6/1/1989	\$338	1	0	\$920	\$200
000586	PT REYES TP FLOW CONTROL	6/1/1989	\$676	1	0	\$1,839	\$500
000576	REBUILD PRE TANK #3	9/1/2003	\$91,759	50	31	\$172,107	\$106,700
000899	REDWOOD TANK #3 LINER	7/1/1993	\$4,090	20	0	\$9,858	\$2,500
000718	REDWOOD TANK LINER-100,000 GAL	7/1/1993	\$1,051	20	0	\$2,533	\$600
000782	REDWOOD TANK LINER-100,000 GAL	7/1/1993	\$1,646	20	0	\$3,967	\$1,000
000953	REDWOOD TANK LINER-100,000 GAL	7/1/1993	\$8,730	50	21	\$21,039	\$8,800
001935	Repair Retaining Wall @ IP Tank #2	6/30/2017	\$19,274	20	15	\$22,539	\$16,900
001649	30,000 INVERNESS PK BOLTED STEEL T	6/30/2009	\$164,262	50	37	\$240,650	\$178,100
000926	REPL 500'-2	7/1/1993	\$19,905	50	21	\$47,969	\$20,100
000302	REPL CHLORINE ANALYZR/RECORDER	9/1/1995	\$310	1	0	\$711	\$200
000310	REPL CHLORINE ANALYZR/RECORDER	9/1/1995	\$564	1	0	\$1,294	\$300
000427	REPL CHLORINE ANALYZR/RECORDER	9/1/1995	\$2,273	20	0	\$5,215	\$1,300
002118	Replace PRE Tank 4A	6/30/2022	\$1,463,026	50	50	\$1,418,375	\$1,418,400
000467	REPLACE WELL PUMP	6/1/1985	\$311	1	0	\$931	\$200
000551	REPLACE WELL PUMP	6/1/1985	\$623	1	0	\$1,865	\$500
000590	REPLACE WELL PUMP (CWM)	6/1/1985	\$2,526	25	0	\$7,560	\$1,900
001719	Ritchey Residence	11/28/2011	\$23,403	50	39	\$32,397	\$25,300
000579	ROUNDSTONE FARM SUBDIVISION	3/1/1987	\$2,277	50	15	\$6,487	\$1,900
000459	Salinity Monitoring Instrumentation	7/1/1998	\$2,326	10	0	\$4,934	\$1,200
001663	Sargent Single Family Dwelling	11/19/2009	\$106,283	50	37	\$155,708	\$115,200
002114	Silver Hills Culvert Repl	6/30/2022	\$44,833	50	50	\$43,465	\$43,500
000294	SILVER HILLS RD EXTENSION	1/1/1985	\$698	1	0	\$2,088	\$500
000378	SINGLE SVC INST 93/94-OLEMA	6/1/1994	\$144	1	0	\$333	\$100
000911	SINGLE SVC INST 93/94-PRE	6/1/1994	\$9,446	50	22	\$21,931	\$9,600
000835	SINGLE SVC INST-93/94 PT REYES	6/1/1994	\$4,913	50	22	\$11,406	\$5,000
000318	SIR FRANCIS DRAKE 1" SVC	10/1/1998	\$1,123	50	26	\$2,382	\$1,200
000271	Sir Francis Drake Hydrant & Svc	2/1/2001	\$6,891	50	29	\$13,660	\$7,900
001040	SOURCE FACILITIES	3/1/1978	\$90,202	40	0	\$407,973	\$102,000
000289	SPARE PUMP,PRE PUMP STATION #2	6/1/1986	\$935	1	0	\$2,732	\$700
000249	ST RT 1 HYDRANT & SVC UPSIZE	11/1/2004	\$7,032	50	32	\$12,409	\$7,900
000092	STATE ROUTE 1 LAND DIVISION	6/1/1990	\$2,396	50	18	\$6,357	\$2,300
000961	STORAGE FACILITIES	11/1/1975	\$40,217	50	3	\$228,274	\$57,100
001031	STORAGE FACILITIES	2/1/1982	\$379,375	50	10	\$1,245,299	\$311,300
001995	STP-Relocate Production Meter	6/30/2019	\$20,039	10	7	\$22,302	\$15,600
000849	SUNNYSIDE DR EXTENSION	10/1/1991	\$12,467	50	19	\$32,375	\$12,300
000203	SUNSHINE CT MAIN EXT	11/1/2004	\$26,119	50	32	\$46,091	\$29,500
000564	TANK LEVEL TRANSMITTER(PT REY)	3/1/1993	\$897	1	0	\$2,162	\$500
000050	THE BARN PROJECT	10/1/1999	\$12,358	50	27	\$25,609	\$13,800
000705	TOMASINI CANYON RANCH #2	3/1/1987	\$8,232	50	15	\$23,459	\$7,000
000040	Tomasini Canyon Road L/D	11/1/1999	\$14,319	50	27	\$29,673	\$16,000
001820	TP Control Valve Upgrade	6/30/2014	\$6,104	50	42	\$7,815	\$6,600
000752	TP Hypochlorite Chlorination	7/1/2002	\$36,879	20	0	\$70,822	\$17,700
000348	TP OPERATION CONTROLS-PRS	7/1/1993	\$128	1	0	\$308	\$100
000439	TP OPERATION CONTROLS-PRS	7/1/1993	\$202	1	0	\$487	\$100
000641	TP OPERATION CONTROLS-PRS	7/1/1993	\$1,070	25	0	\$2,579	\$600
000999	TRANSMISSION LINES	5/1/1981	\$47,320	50	9	\$168,071	\$42,000
001024	TRANSMISSION LINES	5/1/1981	\$75,003	50	9	\$266,396	\$66,600
000012	TREATMENT PLANT	9/1/1979	\$153,572	40	0	\$642,083	\$160,500
000331	TREATMENT PLANT FLOW METER	6/1/1989	\$1,213	20	0	\$3,300	\$800
000500	TREATMENT PLANT ROCK-OLEMA	6/1/1992	\$364	1	0	\$916	\$200
000451	TREATMENT PLANT ROCK-PRE	6/1/1992	\$193	1	0	\$485	\$100
000683	TREATMENT PLANT ROCK-PRS	6/1/1992	\$1,583	40	10	\$3,988	\$1,000
001599	Upgr IP PS w/2 150gpm Pumps	5/31/2008	\$157,888	25	11	\$238,552	\$105,000
001085	UPGR PRS TP OP CONTROLS	6/1/1994	\$392	7	0	\$910	\$200
001175	UPGR PRS TP OP CONTROLS	6/1/1994	\$716	7	0	\$1,662	\$400
001340	UPGR PRS TP OPERATOR CONTROLS	6/1/1994	\$2,892	7	0	\$6,714	\$1,700
000172	UPGR TO 1	3/1/1992	\$1,425	50	20	\$3,589	\$1,400
000208	UPGR TO 1	9/1/1993	\$710	1	0	\$1,712	\$400
000561	UPGR TO 1	3/1/1994	\$948	1	0	\$2,201	\$600
000659	UPGR TO 1	3/1/1992	\$2,015	50	20	\$5,076	\$2,000
000158	UPGR/RELOC SVC-40 BLACKBERRY	4/1/1992	\$1,231	50	20	\$3,102	\$1,200
000568	UPGRADE SYS FLOW METER	7/1/1993	\$641	1	0	\$1,545	\$400
000634	UPGRADE SYS FLOW METER	7/1/1993	\$1,003	40	11	\$2,417	\$700
000844	UPGRADE SYSTEM FLOW METER	7/1/1993	\$5,319	20	0	\$12,817	\$3,200

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001904	Upsize 4" Pipe-Bear Valley Tanks	6/30/2016	\$141,986	50	44	\$172,430	\$151,700
000205	Vallejo Avenue Extension	10/1/2006	\$127,038	50	34	\$205,851	\$140,000
000563	Vallejo Avenue Extension-Inverness Pk	3/1/1998	\$11,841	50	26	\$25,112	\$13,100
000311	VIENTO WAY LAND DIVISION	4/1/1985	\$888	1	0	\$2,659	\$700
001498	Water Right (Giacomini)	7/1/1998	\$60,112	5	0	\$127,490	\$31,900
001499	Water Right (Giacomini)	7/1/1998	\$7,888	5	0	\$16,729	\$4,200
001901	Well #2 Rehab	6/30/2016	\$59,183	50	44	\$71,873	\$63,200
000900	WEST MARIN SELF HELP HOUSING	5/1/1988	\$13,044	50	16	\$36,242	\$11,600
000801	WEST MARIN SENIOR HOUSING	1/1/1986	\$18,442	50	14	\$53,911	\$15,100
000673	WM WATER SYSTEM ALARM-OLEMA	6/1/1992	\$1,472	40	10	\$3,708	\$900
000616	WM WATER SYSTEM ALARM-PRE	6/1/1992	\$779	1	0	\$1,963	\$500
000919	WM WATER SYSTEM ALARM-PRS	6/1/1992	\$8,659	20	0	\$21,809	\$5,500
002031	WM-Brominated TTHM Reduction	6/30/2020	\$67,738	10	8	\$74,177	\$59,300
001776	WM-TP RTU Upgrade	6/30/2013	\$24,432	20	11	\$32,132	\$17,700
001775	WM-Viento Way Upsizing	6/30/2013	\$20,722	50	41	\$27,253	\$22,300
TOTALS:			\$10,822,453			\$23,879,263	\$10,956,000

APPENDIX E

West Marin Water Capital Spending

	Spending 2022 - 2035	Capacity Related	Capacity Costs	Fire Protection Related	Growth- Related Costs
WM Pipelines					
1 Lagunitas Creek Bridge Pipe Replacement (Caltrans)	\$300,000	0%	\$0	0%	\$0
2 Replace 2-inch Galvanized Pipe - PRE	\$45,000	0%	\$0	0%	\$0
3 Olema Creek Bridge Pipe Replacement (County)	\$200,000	0%	\$0	0%	\$0
4 Raise Valves for Hwy 1 Paving	\$15,000	0%	\$0	0%	\$0
WM Tanks & Pump Stations					
5 Tank Replacement - PRE #1 & #2	\$620,000	50%	\$310,000	50%	\$155,000
6 PS/Tank Replacement	\$450,000	50%	\$225,000	50%	\$112,500
WM Wells					
7 New Well - Gallagher Well No. 2	\$380,000	25%	\$95,000	0%	\$95,000
8 Rehab Well - Gallagher Well No. 1	\$50,000	25%	\$12,500	0%	\$12,500
9 Gallagher Well #3	\$850,000	75%	\$637,500	0%	\$637,500
WM Treatment Plant					
10 PR Treatment Plant Modifications	\$4,800,000	15%	\$720,000	0%	\$720,000
WM Other Improvements					
11 Sync w/ County Paving	\$480,000	0%	\$0	0%	\$0
12 Polybutylene (PB) Service Line Replacments	\$300,000	0%	\$0	0%	\$0
13 Gallagher Ranch Streambank Stabilization	\$20,000	0%	\$0	0%	\$0
14 Other Water System Improvements	\$2,500,000	25%	\$625,000	0%	\$625,000
15 WEST MARIN SERVICE AREA TOTAL	\$11,010,000		\$2,625,000		\$2,357,500

RESOLUTION 22-XX

**RESOLUTION OF THE BOARD OF DIRECTORS OF
NORTH MARIN WATER DISTRICT
APPROVING CHANGES TO THE FACILITY RESERVE CHARGES,
AND AMENDING REGULATION 1**

WHEREAS, pursuant to Water Code Section 31024, the Board of Directors (Board) of the North Marin Water District (District) may establish rules and regulations for the sale, distribution, and use of water; and

WHEREAS, pursuant to Government Code Sections 66013 and 66016, the Board may impose or increase fees and charges for water connections that do not exceed the estimated reasonable cost of providing the service for which the fee or charge is imposed; and

WHEREAS, District Regulation 1 establishes the requisite process, including payment of applicable fees and charges, for applicants to make new or upgraded service connections to the District's water system in both the Novato and West Marin Service Areas; and

WHEREAS, the Facility Reserve Charge for the various types of development provided in District Regulation 1 have not been revised since 2008 and 2014 for the Novato and West Marin Service Areas, respectively; and

WHEREAS, the District commissioned a Facility Reserve Charge Study (FRC Study) prepared by Hildebrand Consulting that estimated the reasonable cost of providing water service to new connections within the respective Novato, Recycled and West Marin Water Service Areas and developed a Facility Reserve Charge for various categories of development for each of said service areas; and

WHEREAS, the, District Board received a presentation describing the methodology and the calculations, and based thereon accepted the FRC Study, at the November 15, 2022 Board Meeting; and

WHEREAS, District staff has recommended updating the language contained in various sections of Regulation 1 to clarify the process that potential District customers must follow to connect to the District's water systems consistent with the FRC Study in both the Novato and West Marin Service areas as well as for Recycled Water; and

WHEREAS, the Board desires to update the Facility Reserve Charge for the various types of development to more accurately reflect the current reasonable costs of providing water

services, to incorporate a distinct Facility Reserve Charge section for Recycled Water, and to amend Regulation 1.

NOW, THEREFORE, BE IT RESOLVED:

1. The Board of Directors of North Marin Water District finds and determines that the foregoing Recitals are true and correct, and incorporates the Recitals herein.
2. The Board of Directors of the North Marin Water District hereby approves revisions to the Facility Reserve Charges for the Novato and West Marin Services Areas, approves a new Facility Reserve Charge subsection for Recycled Water, and amends Regulation 1 as indicated in **EXHIBIT A**, attached hereto and incorporated by this reference.
3. This Resolution shall be effective immediately upon adoption and shall remain in effect until such time as it is modified, repealed, or superseded by further resolution of the Board.
4. If any provision of this Resolution, or any part thereof, is for any reason held to be *ultra vires*, invalid, unenforceable, or unconstitutional, the remaining provisions shall not be affected but shall remain in full force and effect, and to this end the provisions of this Resolution are severable.

* * * * *

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the December 6, 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

EXHIBIT A

NORTH MARIN WATER DISTRICT

REGULATION 1

NEW OR UPGRADED WATER SERVICE CONNECTIONS

a. Application for Service and Processing

Application for service must be made to the District in writing on the District's form by the property owner or his/hers/its authorized agent. An online application process is available on the District's website at: <http://nmwd.com>. Applications must be supported by data as required by the District, including but not limited to, a map and/or legal description of the property to be served, the name of the property owner, a description or plan showing intended water fixtures, a plan showing lawn and garden areas, a fire sprinkler plan and design, if applicable, documentation for the fire agency having jurisdiction, if applicable, and an estimate of amount of water to be used. The size of the meter and service connection will be determined by the District at its sole discretion based on the information supplied and other pertinent information in the District's possession.

Applications requiring a single service having a meter size equal to or less than one and one-half inch will be processed in the order of the date the application is received provided all requirements of the District are met. All other applications will be processed in the order of the date the application is received provided the Applicant meets all District requirements within 30 days of said date. If District requirements are not met within said 30 days, the application shall be null and void and must be resubmitted to the District. The General Manager may extend the 30-day compliance period by no more than an additional 30-days, if the General Manager determines, in their sole discretion, that the failure to meet this requirement is due to workload limits of the District

District receipt of an application shall in no way represent a commitment or agreement by the District to serve water. Said commitment will be made only at the time service actually commences or when a water service agreement is fully executed, whichever shall first occur. Notwithstanding the foregoing, prior to commencement of service, should the District be limited in serving new connections by local ordinance or resolution, or by any action of any State regulatory agency or department, service to the applicant may be delayed or denied. In the case of a water service agreement, the commitment of the District to supply water shall be limited to the number of connections to be installed pursuant thereto and in accordance with the terms thereof. Additional requirements for recycled water service are included in Regulation 18.

b. Conditions Precedent to Service

Water service will be provided subject to:

- (1) The existence of a main of adequate capacity and pressure abutting the property to be served, or the construction of adequate mains, pumps and storage facilities under the provisions of Part B of these Regulations;
- (2) The advance payment of the District's initial charge for service as provided in Regulation 1 c.; and
- (3) Compliance with the other applicable provisions of these regulations.

c. Initial Charges for Service

Prior to commencement of service the Applicant shall pay an initial charge for service which shall be the total of the Meter Charge, the Service Line Charge, the Reimbursement Fund

Charge and the Facilities Reserve Charge computed as set forth below. In accordance with Regulation 30, the Reimbursement Fund Charge is used to fund the District's Reimbursement Program which transfers these funds to subdividers and individuals who have built extensions of water distribution systems that benefit others ("Extenders"). A Facilities Reserve Charge includes the costs to provide capacity ~~for new customers~~ through existing and future water facilities in order to serve new and upgraded connections. "Est." shown in the tables below, means the cost of the meter and/or the service line as estimated by the District; "d.u." means dwelling unit. The Reimbursement Fund Charge shall not apply to recycled water service. Applications for a single service connection having a meter size equal to or less than one and one-half-inch shall pay a Meter Charge and a Service Line Charge as set forth below, which comprise the estimated costs of providing those respective services. Applications requiring more than one meter or requiring a meter size greater than one and one-half-inch shall pay a Meter Charge and a Service Line Charge based on the actual cost of said meter and service line installation(s) incurred by the District.

The Facilities Reserve Charge will depend on the type of use as shown in the table below and shall be based on the District's estimate of the quantity of water that will be used on the average day of the maximum month expressed in "equivalent single-family dwelling units" (EDUs) of 500-385 gallons each for Novato and Recycled Water, and 270-210 gallons each for West Marin. The District shall determine Facilities Reserve Charges for those consumers served prior to May 1, 1973 by its estimate of gallons per day of water use on the average day of the maximum month divided by 500-385 for Novato, or 270-210 for West Marin, over the first ten years of service or less as applicable. If at any time a consumer's use exceeds the estimate used in fixing the charge the District may require the consumer to either reduce its maximum usage to the appropriate EDU amount, or to pay an additional Facilities Reserve Charge at the rate then in effect for each EDU of such excess. Once Facilities Reserve Charges are paid and service actually commences or when a water service agreement is fully executed, a water entitlement is established for the property. The entitlement stays with the property and cannot be reassigned or transferred to another property even if there is common ownership.

(1) Novato Service Area – Effective August, 3, 2021

Meter Size	Meter Charge	Service Line Charge	Reimbursement Fund Charge
<u>Inches</u>	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>
5/8	\$610	\$3,94,760	\$ 420
1	710	4,760	1,055
1-1/2	980	7,560	1,540
2	Est.	Est.	3,140
3	Est.	Est.	4,680
4	Est.	Est.	7,310
6	Est.	Est.	14,360
8	Est.	Est.	31,250
10	Est.	Est.	41,610

	Effective <u>12/03/13</u>
	Facilities Reserve Charge
Single family detached residences and duplexes (each d.u)	\$ 28,600 <u>28,310</u>
Townhouses and condominiums (3 units or more) (each d.u)	17,200 <u>19,250</u>
Mobile home (each d.u.).....	40,000 <u>11,040</u>
Apartment houses - 5 units or more, (each d.u.)	11,200 <u>13,870</u>
Second d.u. or Accessory Dwelling Unit (ADU), <u>including manufactured ADUs, up to 1,200 square feet in size and not exceeding 50 percent of the size of the existing primary dwelling with a kitchen</u> on a parcel in undivided ownership	10,000 <u>7,640</u>
d.u. with kitchen or kitchenette whose occupants receive regular meals from central kitchen/dining facility on site	7,600
d.u. or ADU without kitchen facilities and landscape	6,100
Non-residential uses and master metered residential uses with a history of water consumption: the District shall determine EDU's by its estimate of gallons per day of potential water use on the average day of the maximum month divided by 500 <u>385</u> (each EDU).....	28,600 <u>28,310</u>

Also see Regulation 29 regarding extension of District facilities.

(2) West Marin Service Area – Effective August 3, 2021

Meter Size (Inches)	Meter Charge (1)	Service Line Charge (2)	Reimbursement Fund Charge (3)
5/8	\$610	\$3,4,7960	\$1,950
1	710	4,760	4,950
1-1/2	980	7,560	7,200
2	Est.	Est.	14,700
3	Est.	Est.	21,900
4 <u>(and greater)</u>	Est.	Est.	34,200

	Effective <u>12/03/13</u>
	Facilities Reserve Charge
Single family detached residences and duplexes (each d.u)	\$ 22,800 <u>20,660</u>
Townhouses and condominiums (3 units or more) (each d.u)	13,700 <u>14,050</u>
Mobile home (each d.u.).....	8,000 <u>8,060</u>
Apartment houses - 5 units or more, (each d.u.)	8,900 <u>10,120</u>

Second d.u. or Accessory Dwelling Unit (ADU), including manufactured ADUs, up to 1,200 square feet in size and not exceeding 50 percent of the size of the existing primary dwelling with a kitchen on a parcel in undivided ownership 8,0005,580

~~d.u. with kitchen or kitchenette whose occupants receive regular meals from central kitchen/dining facility on site~~ ~~6,100~~

~~d.u. or ADU without kitchen facilities and landscape~~ ~~4,900~~

Non-residential uses and master metered residential uses with a history of water consumption: the District shall determine EDU's by its estimate of gallons per day of potential water use on the average day of the maximum month divided by ~~270~~210 (each EDU)..... ~~22,800~~20,660

Also see Regulation 29 regarding extension of District facilities.

(3) Recycled Water Service Areas – Effective August 3, 2021

<u>Meter Size (Inches)</u>	<u>Meter Charge</u>	<u>Service Line Charge</u>
<u>5/8</u>	<u>\$610</u>	<u>\$4,760</u>
<u>1</u>	<u>710</u>	<u>4,760</u>
<u>1-1/2</u>	<u>980</u>	<u>7,560</u>
<u>2</u>	<u>Est.</u>	<u>Est.</u>
<u>3</u>	<u>Est.</u>	<u>Est.</u>
<u>4</u>	<u>Est.</u>	<u>Est.</u>

Effective
XX/XX/22
Facilities Reserve
Charge

Recycled water for commercial or multi-unit residential common area irrigation or other approved uses: District shall determine EDU's by its estimate of gallons per day of potential water use on the average day of the maximum month divided by 385 (each EDU)..... \$28,310

Also see Regulation 18 regarding recycled water service.

(3) Charge for Annexation - All Service Areas

4)

In addition to the other charges specified, no property shall be annexed to an improvement district unless an annexation fee is paid. The annexation fee shall be equal to the following:

- (a) an annexation recovery fee of \$1,000 representing the approximate revenue from tax on land (not improvements), including interest on that tax, that the District would have received had the property to be annexed been within the improvement district from the date of its formation, and;
- (b) any applicable current Local Agency Formation Commission and/or State Board of Equalization fees for annexation, and;
- (c) estimated cost of District staff time and expenses incurred to process the annexation application. The full cost of any annexation feasibility studies including preparation of environmental documents, shall be borne by the person or entity requesting water service. Before commencing such studies said person or entity shall advance the District's estimated cost of such studies. If, after pursuing such studies, the District determines additional funds are needed to cover estimated costs, said person or entity shall advance said additional estimated required funds. Upon completing said studies any costs incurred by the District which were not covered by an advance(s) shall be paid by said person or entity upon presentation of an invoice therefore. Any unexpended funds held by the District resulting from an advance(s) shall be refunded to said person or entity.

(45) Single Service Connection Requests - Deposit Requirement for Water-Saving Devices and Restrictions

A \$1,000 deposit must be paid to the District before a single water service connection is provided to assure compliance with all Water-Saving Devices and Restrictions for New Development pursuant to Regulation 15.e and 17.e. Upon inspection that requirements for all Water-Saving Devices and Restrictions have been met, the \$1,000 deposit will be refunded to the applicant.

(56) Initial charges for Affordable Housing

Payment of Initial Charges for water service to Applicant projects that include housing units affordable to lower income households, as defined in Government code Section 65589.7(d)(1), may be deferred for affordable units only until such time as a certificate of occupancy is issued by the city or county and meters thereto are authorized to be set or a period of two years from the date of the Applicant's Water Service Agreement, whichever duration is less. Said deferred payment shall include interest calculated at the rate earned on the District investment portfolio over the deferral period as determined solely by the District.

(67) Excavation Prohibitions, ~~and~~ Street Moratoriums and Pavement Restoration

If installation of a new service connection requires excavation within a City of Novato street that is under a Prohibition of Excavation, as defined by the City of Novato Municipal Code or in a street that is listed in the County of Marin's Street Moratorium, then the District will levy a charge for the cost of pavement restoration (as will be determined by the District). In addition, the District reserves the right to levy a charge for the cost of pavement restoration in certain other circumstances where the District

determines, in its sole discretion, that the charge is warranted, in addition to the fixed charges listed in (1), and (2), and (3) above.

d. (This section left intentionally blank)

e. Location of Service Connection

Service will be provided at a meter abutting a major frontage of the consumer's property at a point determined by the District. The consumer may indicate the point on his/hers/its property where they desires the service. However, tThe final location will be determined solely by the District.

f. Facilities Reserve Charge for Public Parks - All Service Areas

The Facilities Reserve Charge for public parks shall be the amount charged for a 5/8-inch meter serving a single dwelling unit irrespective of the actual size of the meter provided each and all of the following conditions are met:

- (1) The public park is owned, operated, maintained, and managed by a public agency and is open and accessible to the public for active recreational uses. For the purposes of this regulation landscaped areas along roadways and surrounding public buildings and landscaped areas in privately owned recreational areas or in areas where use is limited to a select group, such as a homeowners association are not public parks. Golf courses, whether privately or publicly owned or any other enterprise which charges a use fee, are not public parks. A community recreation facility that is not developed, constructed, operated, or maintained with public funds is not a public park.
- (2) The public agency owning the park enters into a service agreement with the District providing:
 - (a) Water shall be used only during such off-peak hours as shall be therein specified by the District with the exception that water can be used during peak periods for special limited and unusual circumstances such as system testing, germination of newly seeded turf, major turf renovation projects, irrigation following fertilization or herbicide applications, irrigation required prior to aeration and minor hand irrigation required for plant establishment, and
 - (b) Water use shall be discontinued or reduced as directed by the District at any time it determines that a threatened water shortage exists and so notifies the consumer.
 - (c) Water applied to turf and other landscape areas shall be through an irrigation system that complies with all applicable requirements of Regulation 15f or Regulation 17f as demonstrated by design drawings and specifications and which contain the following features:
 - (i) Use of sprinkler heads, sprinkler head components and/or control schedules which achieve precipitation rates which match the water absorption capacity of the sod/soil column.
 - (ii) Sprinkler head spacing that is not greater than 50% of the diameter of the precipitation pattern thrown by the sprinkler head (i.e., head-to-head spacing) at the minimum delivery pressure available at the site based on field measurements or pressure data supplied by the District. This 50% diameter spacing requirement can be varied provided the requirements

of Section 1(f)(2)(c)(ix) are met.

- (iii) Sizing and layout of pipe laterals and selection and grouping of sprinkler heads and nozzles in a manner which assures that the pressure requirement of each sprinkler head is achieved.
 - (iv) Separation of valves such that valves serving turf sprinklers do not include sprinklers irrigating non-turf landscape which has a different water requirement.
 - (v) A valve in every head may be required by the District to control drain down and optimize distribution control.
 - (vi) Control of all turf valves by a District approved weather-based irrigation controller with remote ability to shut off the controller and capable of programming each valve for the following variables:
 - (1) Irrigation days,
 - (2) Minimum of three independently scheduled start times per irrigation day
 - (3) Minutes of run time per start time cycle.
 - (vii) . This section left intentionally blank.
 - (viii) Controller shall accommodate a rain shut-off feature which automatically shuts down irrigation when it is raining.
 - (ix) The irrigation distribution system shall be designed to achieve a lower quartile distribution uniformity of at least 80%. This distribution uniformity shall be verified after installation by field precipitation tests performed by a competent expert selected by the District and paid for by the applicant public agency. In the event said uniformity is not achieved, the applicant public agency shall make changes to the system until subsequent tests by said expert, and also paid for by the applicant agency, demonstrate achievement of said distribution uniformity. The lower-quartile uniformity coefficient, an approximation of overall irrigation system uniformity, shall be determined by sampling the precipitation pattern or "footprint" of the irrigation system with catch cans. The coefficient is determined by arraying the resulting data expressed as inches per catch can (or volume of water in can if cans are of uniform size) in descending order of magnitude, determining the mean of the lower one fourth of the catch-can data, and dividing it by the mean value for all of the cans.
- (d) In designing the irrigation system, the applicant agency shall conduct field tests to determine typical infiltration rates for the sub-turf soil. Design precipitation rates shall, as near as practicable, be matched to or not exceed said infiltration rates

- (e) Consumer or consumer's operator of the turf irrigation system shall apply water pursuant to an irrigation schedule developed for the site and based on applied water advice made available by the District or said turf irrigation system shall be controlled by moisture sensing devices which are operated to achieve efficient irrigation.
- (f) In the case of recycled water service, exceptions to this section may be made or additional requirements imposed as determined by the District to assure optimum soil moisture conditions are maintained and slime growth in the private distribution system is minimized.

g. Land Use Approval Established

An application for service to unimproved land shall not be processed to completion by the District unless the Applicant presents to the District a document from the city or county entity having jurisdiction verifying that a:

- (1) Valid Building Permit has been issued; or
- (2) Preliminary Division of Land has been approved; or
- (3) Tentative Subdivision Map has been approved; or
- (4) Planned Unit Development Precise Development Plan has been approved; or
- (5) Conditional Use Permit has been approved.

The word unimproved as used herein means land on which no improvements exist or land which although improved to a degree is being further improved and said further improvement is the cause for augmented water service and requires one or more of the above listed land use approvals. The District may process an application for service to unimproved land prior to obtaining the land use approvals stated above for non-residential uses such as irrigation, at the sole discretion of the General Manager. Water service approval is also subject to the District's review and confirmation that planned or future land use is consistent with local zoning requirements. In these cases, the service may require future additional water facility construction or other modifications at the sole cost of the applicant to satisfy fire department requirements once land use approval is obtained.

h. Wastewater Disposal Established

Water service will not be furnished to any building unless it is connected to a public sewer system or to a wastewater disposal system approved by all governmental entities having regulatory jurisdiction. This subsection shall not apply to service during construction or service provided under Regulation 5.

i. Initial Charges for Service to Residential Connections with Fire Fighting Equipment

- (1) Where a meter larger than is otherwise necessary for consumption needs is installed solely to provide capacity for private fire sprinklers, fire hydrants or other fire fighting equipment in residential connections, the applicable Reimbursement Fund Charge shown in Column (3) of subsections c.(1) and c.(2) that shall apply shall be the corresponding charge for the next smaller size meter in accordance with Regulation 54 regarding minimum service charges.

- (2) Where new fire fighting equipment such as private fire sprinklers are required for a residential structure where the existing service is part of a dual service, a new separate service line will be required as determined by the District.

j. Landscape Plans

If the city or county requires an approvable landscape plan as part of its land use approval process said plan must be submitted to the District before an application shall be processed to completion.

k. Private Domestic Water Supply Wells

The District does not have jurisdiction for approval of a private domestic water supply well. However, if the property upon which a new private well is being proposed has an existing water service from the District, then the District reserves the right to review the well installation and improvement plans for cross-connection and backflow requirements.

l. Temporary Water Service

The District will consider an application for temporary water service to improved or unimproved land. The District may process an application for temporary water service for irrigation or construction purposes, or in other cases, at the sole discretion of the General Manager. Water service approval is also subject to the District's review and confirmation that planned or future land use is consistent with local zoning requirements. The applicant must sign an Agreement for Temporary Water Service before service may commence. Temporary water service, if approved by the District, will expire after the period stated in the Agreement, or upon issuance of a permanent water service agreement. See District Regulation 5 for more details on Temporary Service.



**NORTH MARIN
WATER DISTRICT**

Facility Reserve Charge Changes and Amending Regulation 1

December 6, 2022

ATTACHMENT 3

Summary of Public Hearing Topics

- ❖ Facility Reserve Charge Study
 - ✓ Recap of Report by Hildebrand Consulting
- ❖ Proposed Changes to Novato, Recycled Water and West Marin Water FRCs
 - ✓ SF dwelling and ADUs decreases
 - ✓ Multi-family increases
- ❖ Other Minor Amendments to Regulation 1



2022 Facility Reserve Charge Study

December 6, 2022



HILDEBRAND
CONSULTING

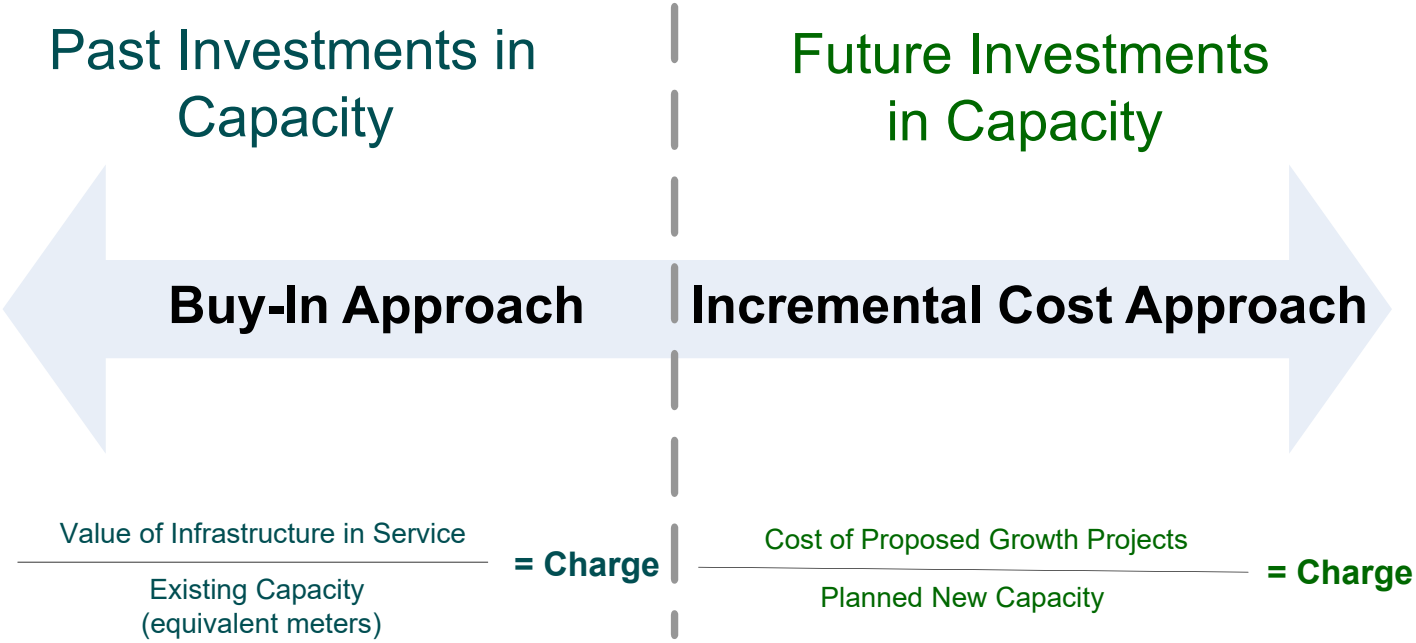
Facility Reserve Charge (FRC)

- Facility Reserve Charges (or “capacity charges” or “connection fees”) are the one-time fees charged to new development for capacity in the water system.

Legal Standard

- Section 66013 of the Government Code states that capacity charges shall not exceed the ***estimated reasonable cost*** of providing the service for which the charges are imposed.

Common FRC Approaches



Recommended Methodology

This Study recommends the use of a **hybrid approach**.

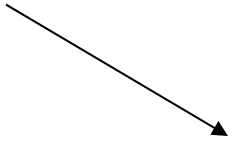
This approach recognizes that while there exists some available capacity in the existing systems, future growth will largely need to be served by new capacity.

It is recommended that the Novato FRC and Recycled FRC continue to be identical since the impacts to system capacity are similar.

Hybrid Calculation – Novato/RW and West Marin

\$10,430

Buy-In Approach



\$32,630

Incremental Approach



\$28,310 per single family account (detached)

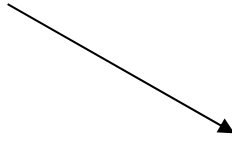
(weighted average)

Novato/RW

West Marin

\$11,820

Buy-In Approach



\$22,040

Incremental Approach



\$20,660 per single family account (detached)

(weighted average)

Preliminary FRC Schedule – Novato & Recycled Water

	Proposed FRC	Relative Water Usage¹	Current Multiplier
Single family detached residences and duplexes (each d.u)	\$28,310	1.0	
Townhouses and condominiums (3 units or more) (each d.u)	\$19,250	0.68	0.60
Mobile home (each d.u.)	\$11,040	0.39	0.35
Apartment houses - 5 units or more, (each d.u.)	\$13,870	0.49	0.39
Accessory Dwelling Units (ADUs) on a parcel in undivided ownership	\$7,640	0.27	0.35
d.u. with kitchen or kitchenette whose occupants receive regular meals from central kitchen/dining facility on-site	NA	NA	0.27
Dwelling units without kitchen facilities and landscape-	NA	NA	0.21
Non-residential uses and master metered residential uses (per SFE d.u.)			
The District shall determine equivalent single family d.u.'s by its estimate of gallons per day of potential water use on the average day of the maximum month divided by 385.	\$28,310	NA	NA

¹ Relative average water usage during peak months

² The applicability of Facility Reserve Charges to ADUs is subject to state law.

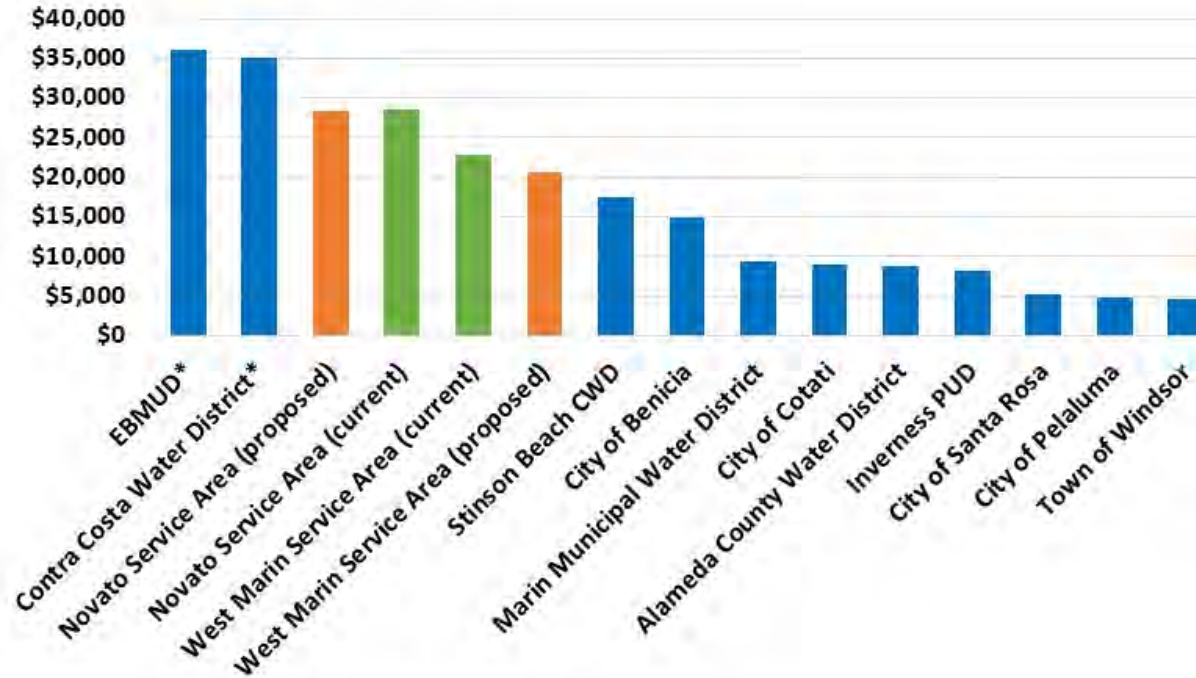
Preliminary FRC Schedule – West Marin

	Proposed FRC
Single family detached residences and duplexes (each d.u)	\$20,660
Townhouses and condominiums (3 units or more) (each d.u)	\$14,050
Mobile home (each d.u.)	\$8,060
Apartment houses - 5 units or more, (each d.u.)	\$10,120
Accessory Dwelling Units (ADUs) on a parcel in undivided ownership ²	\$5,580
d.u. with kitchen or kitchenette whose occupants receive regular meals from central kitchen/dining facility on site	TBD
Dwelling units without kitchen facilities and landscape	TBD
Non-residential uses and master metered residential uses (per SFE d.u.)	
The District shall determine equivalent single family d.u.'s by its estimate of gallons per day of potential water use on the average day of the maximum month divided by 210.	\$20,660

¹ Relative average water usage during peak months

² The applicability of Facility Reserve Charges to ADUs is subject to state law.

Survey of Regional Capacity Charges for single family homes



* Varies widely by service areas within districts



Regulation 1

Proposed FRCs for Regulation 1

Novato Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Single family detached residences and duplexes	\$28,600	\$28,310	(\$290)
Townhouses and condominiums (3 units or more)	\$17,200	\$19,250	\$2,050
Mobile home	\$10,000	\$11,040	\$1,040
Apartment houses - 5 units or more	\$11,200	\$13,870	\$2,670
Second d.u. or Accessory Dwelling Unit (ADU)	\$10,000	\$7,640	(\$2,360)

Recycled Water Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Commercial or multi-family irrigation	\$28,600	\$28,310	(\$290)

West Marin (Water) Service Area			
Development or Structure Type	Current FRC	Proposed FRC	Change
Single family detached residences and duplexes	\$22,800	\$20,660	(\$2,140)
Townhouses and condominiums (3 units or more)	\$13,700	\$14,050	\$350
Mobile home	\$8,000	\$8,060	\$60
Apartment houses - 5 units or more	\$8,900	\$10,120	\$1,220
Second d.u. or Accessory Dwelling Unit (ADU)	\$8,000	\$5,580	(\$2,420)



Special Note Regarding ADUs

- Only for situations where FRCs are allowed by code
- Calculation based on actual water use – **proportional** to a single-family dwelling
- Reason for not using proportional drainage fixture units per code:
 - ❖ Significantly higher (\$17,835) than current or proposed FRC (\$10,000 and \$7,640 respectively)
 - ❖ Less accurate than actual water usage data



Regulation 1 Amendments

- Title Change “**NEW OR UPGRADED WATER SERVICE...**”
- Minor changes regarding:
 - ❖ FRC stays with property/not transferrable
 - ❖ Simplified second dwelling unit/ADU category
 - ❖ Update to service line charge (3/4” no longer available)
 - ❖ New Separate Recycled Water FRC table
 - ❖ Pavement restoration charges in certain circumstances.
 - ❖ New service before typical land use approval or for temporary service.





Questions?

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DRAFT
NORTH MARIN WATER DISTRICT
MINUTES OF REGULAR MEETING
OF THE BOARD OF DIRECTORS
November 15, 2022

7 **CALL TO ORDER**

8 President Petterle announced that due to the Coronavirus outbreak and pursuant to the
9 Brown Act as modified by Assembly Bill 361, this was a virtual meeting. President Petterle called
10 the regular meeting of the Board of Directors of North Marin Water District to order at 6:00 p.m.
11 and the agenda was accepted as presented. President Petterle added that there was not a public
12 location for participating in this meeting, but any interested members of the public could participate
13 remotely by utilizing the video or phone conference dial-in method using information printed on
14 the agenda. President Petterle announced that in the event of technical difficulties during the
15 meeting, the District Secretary will adjourn the meeting and the remainder of the agenda will be
16 rescheduled for a future special meeting which shall be open to the public and noticed pursuant
17 to the Brown Act.

18 President Petterle welcomed the public to participate in the remote meeting and asked
19 that they mute themselves, except during open time and while making comments on the agenda
20 items. President Petterle noted that that due to the virtual nature of the meeting he will request a
21 roll call of the Directors. A roll call was done, those in remote attendance established a quorum.
22 Participating remotely were Directors Jack Baker, Rick Frites, Michael Joly and Stephen
23 Petterle.

24 President Petterle announced that all public attendees will be invited to speak and will
25 need to use the raised hand icon in Zoom or dial *9 to be called upon.

26 Mr. Williams performed a roll call of staff, participating remotely were; Tony Williams
27 (General Manager), Terrie Kehoe (District Secretary), Eric Miller (Assistant GM/Chief Engineer),
28 Julie Blue (Auditor Controller), Robert Clark (Operations/Maintenance Superintendent), Chris
29 Kehoe (Interim Construction/Maintenance Superintendent), Ryan Grisso (Water Conservation
30 Coordinator) and Rebecca Sylvester (Receptionist/Customer Service Assistant). Pablo Ramudo
31 (Water Quality Supervisor) joined the meeting at 6:30 p.m. Additionally, District employees
32 Connie Filippi, Lia Solar and Eileen Mulliner joined the meeting. Also participating remotely were
33 Sharon Nagle (BPMNJ, Legal Counsel), consultant Chris Brown (Fedak & Brown LLP) and Mark
34 Hildebrand (Hildebrand Consulting).

35 President Petterle requested that for those joining the virtual meeting from the public to

36 identify themselves. Participating remotely were Ken Levin (Point Reyes Station Village
37 Association) and Camille.

38 **MINUTES**

39 On motion of Director Joly seconded by Director Fraites, the Board approved the minutes
40 with minor edits from the November 1, 2022 Regular Board Meeting by the following vote:

41 AYES: Director Baker, Fraites, Joly and Petterle

42 NOES: None

43 ABSTAIN: None

44 ABSENT: None

45 **GENERAL MANAGER'S REPORT**

46 Mr. Williams announced that in light of a very full agenda, he did not have anything to
47 report at this time other than he is working on a Resolution of Appreciation for Director Grossi with
48 the help of Drew McIntyre and anticipates bringing it the Board at the December 6, 2022 meeting.

49 President Petterle asked if there were any comments or questions from the Directors and
50 there were none.

51 President Petterle asked if there were any comments or questions from the public and
52 there was no response.

53 **OPEN TIME**

54 President Petterle asked if anyone from the public wished to bring up an item not on the
55 agenda and there was no response.

56 **STAFF/DIRECTORS REPORTS**

57 President Petterle asked if any Directors or staff wished to bring up an item not on the
58 agenda.

59 Mr. Clark reported that staff plans on shutting down the Stafford Treatment Plant before
60 Thanksgiving, because they are running out of chemicals.

61 President Petterle stated that he wished to make a motion to move to adjourn tonight's
62 meeting in memory of Director Grossi.

63 On the motion of Director Petterle, and seconded by Director Fraites the Board approved
64 adjourning the North Marin Water District's November 15, 2022 meeting in the memory of Director
65 Grossi by the following vote:

66 AYES: Director Baker, Fraites, Joly and Petterle

67 NOES: None

68 ABSTAIN: None

69 ABSENT: None

70 **CONSENT CALENDAR**

71 President Petterle asked if there were any questions or comments from the Directors and
72 there were none.

73 President Petterle asked if there were any comments or questions from the public and
74 there was no response.

75 On the motion of Director Joly and seconded by Director Baker the Board approved the
76 consent calendar by the following vote:

77 AYES: Director Baker, Fraitas, Joly and Petterle

78 NOES: None

79 ABSTAIN: None

80 ABSENT: None

81 **RE-AUTHORIZING MEETINGS BY TELECONFERENCE OF LEGISLATIVE BODIES OF**
82 **NORTH MARIN WATER**

83 The Board approved Re-Authorizing Meetings by Teleconference of Legislative Bodies of
84 North Marin Water District. Resolution 22-30 will extend the continuation of teleconference
85 meetings effective November 15, 2022 through December 15, 2022 pursuant to Brown Act
86 provisions.

87 **NOTICE OF COMPLETION FOR NEW GALLAGHER WELL NO. 2 PROJECT (MAGGIORA**
88 **BROS. DRILLING, INC.)**

89 The Board approved the Notice of Completion with Maggiora Bros. Drilling, Inc. for the
90 New Gallagher Well No. 2 Project. Pursuant to and in conformance with contract requirements
91 for the New Gallagher Well No. 2 project, the contractor, Maggiora Bros. Drilling Inc., has fulfilled
92 their obligations under the contract.

93 **ACTION CALENDAR**

94 **FILING BOARD VACANCY – DIRECTOR GROSSI**

95 Mr. Williams notified the Board on November 6, 2022 that due to the death of Director
96 Grossi on November 4, 2022, a vacancy exists on the Board. He provided an outline of statutory
97 requirements and process based on legal guidance regarding an appointment by the Board to fill
98 the vacancy, which included an alternate option to hold a Special Election.

99 President Petterle stated that this was a difficult time for everyone and it seems like only
100 yesterday that Director Grossi was participating with us in a meeting. He added that he did not
101 want to in any manner diminish the role or the memory of who Director Grossi was as a person,

102 but the Board is required to continue to conduct business per state law.

103 President Petterle asked if there were any comments or questions from the Directors.

104 Director Joly asked why staff would not want to do a special election. He noted that if an
105 appointment is made that would mean four members of the Board would be up for re-election in
106 2024. Mr. Williams replied that the election code stated that the Board of Supervisors has
107 acknowledged the start of Director Grossi's term since the position was unopposed as of October
108 25th. Mr. Williams stated that the main reason for not holding a special election is the cost, it is
109 expensive, and the timing is not good since the Marin County Elections Department is still
110 counting votes from the general election. He added that the appointment term would be two of
111 the four years of his upcoming term. Director Petterle stated that it could happen again next year
112 if one of the Board Members were to decide to leave. Director Joly stated that the explanation
113 was very helpful and he would like the discussion reflected in the minutes. Director Fraites stated
114 that it would be nice to have a detailed map included with the notice so people can get a visual.
115 Mr. Williams responded that that it is tough to do a detailed map, but the vacancy will be noticed
116 on our website where there is an interactive map available. Director Joly stated that his
117 preference would be to hold the Special Meeting on December 13th, because he would hate to
118 appoint someone one date before the deadline (January 4, 2023) and the earlier date gives the
119 Board almost a month to complete the process. Director Petterle agreed, stating he would prefer
120 the extra window of time. Mr. Williams asked the Board for clarification to change the notice to
121 include a December 13th appointment date. Director Petterle confirmed, stating that is the
122 direction of the Board.

123 President Petterle asked if anyone from the public would like to speak.

124 Mr. Levin stated that Director Grossi was a really good guy and he is already missed. He
125 agreed that it is a sad time to discuss his replacement. Mr. Levin added that he had inquires
126 among interested people in West Marin and he felt it would be important to have a voice from the
127 western part of the service area if possible. Director Petterle stated that he already spoke to
128 Supervisor Rodoni about the same topic.

129 On the motion of Director Baker and seconded by Director Joly the Board approved:
130 declaring a vacancy on the Board effective November 6, 2022; authorizing staff to notify the
131 County of Marin and County of Sonoma of the Board's intent to appoint a replacement to fill the
132 vacancy; set a special meeting for 6:00 p.m. on December 13, 2022 to conduct candidate
133 interviews; approve the tentative timeline shown above to fill the vacancy; and authorize the notice
134 be placed in the designated places soliciting letters of interest and resumes from residents
135 residing in Division 1 of the District who are interested in service on the Board, by the following

136 vote:

137 AYES: Director Baker, Fraites, Joly and Petterle

138 NOES: None

139 ABSTAIN: None

140 ABSENT: None

141 President Petterle stated that in order to clarify the question presented by Mr. Williams
142 and the comment by Director Joly, the Board is requesting a Special Meeting on December 13,
143 2022. Director Baker stated that he appreciated the comments from Mr. Levin. He stated that
144 Director Grossi had a mix of urban knowledge with a rural agricultural background. Director Baker
145 added that it is good that Mr. Levin is spreading the word, and it would be effective to have
146 someone with a mixed background and knowledge of West Marin.

147 **ACCEPT OUTSIDE AUDITOR'S FY 21/22 FINANCIAL REPORT AND MANAGEMENT**
148 **REPORT**

149 Ms. Blue introduced Chris Brown of Fedak and Brown, LLP and stated that he will present
150 an overview of the comprehensive annual financial report. Ms. Blue stated that the District worked
151 with Fedak and Brown LLP this year and had a successful audit. She stated that the memo
152 outlined the end of year account adjustments including Pension and Other Post-Employment
153 Benefits. Ms. Blue reported all work by Fedak and Brown LLP was done remotely and she
154 commended the District's accounting staff for all their hard work and dedicated service.

155 The FY 21/22 comprehensive annual financial report was presented by Chris Brown of
156 Fedak & Brown LLP. Mr. Brown reported the audit was performed following proper audit and
157 accounting standards. In addition, internal controls, methodologies and best practices were
158 assessed. Mr. Brown noted that the audit approach is to review supporting documents to make
159 sure they support the balances in the financial statements. Mr. Brown added that due to GASB
160 87, leases, which previously were not on the books, are now required to be recorded as the value
161 of obligation on the financial report, noting the result was minimal. He reported they did not
162 identify any weaknesses and District staff has done an excellent job and gave them the highest
163 rating with no deficiencies. Mr. Brown recognized the District applied for the GFOA award last
164 year and won. He added that this year the report will be submitted again and he expects with
165 District will win again for 2022.

166 President Petterle asked if there were any comments or questions from the Directors and
167 there were none.

168 President Petterle asked if anyone from the public would like to speak and there was no
169 response.

170 On the motion of Director Joly and seconded by Director Fraites the Board approved
171 acceptance of the Outside Auditor's FY 21/22 Financial Report and Management Report by the
172 following vote:

173 AYES: Director Baker, Fraites, Joly and Petterle

174 NOES: None

175 ABSTAIN: None

176 ABSENT: None

177 President Petterle thanked Mr. Brown for his detailed report and for explaining everything
178 quickly and relatively simply. Director Joly thanked Ms. Blue and her staff and stated that all
179 reports were written extremely well. Ms. Blue also thanked Mr. Brown, Nancy Holton and Nancy
180 Williamson for all their hard work. Mr. Brown said he would also like to thank Nancy Holton and
181 Nancy Williamson.

182 **ACCEPT FACILITY RESERVE CHARGE STUDY – SET PUBLIC HEARING FOR DECEMBER**
183 **6, 2022**

184 Mr. Williams introduced Mr. Hildebrand who worked closely with staff and noted that Mr.
185 McIntyre was also brought in early on to work on the history and baseline of the study. He
186 requested the Board accept this report, noting any changes to the report that may come up tonight
187 can still be made and ultimately incorporated into Regulation 1. Additionally, Mr. Williams
188 apprised the Board that the Public Hearing is being requested for December 6, 2022.

189 Mark Hildebrand presented the Facility Reserve Charge Study (FRC Study) in which the
190 findings will be considered for amendments to Regulation 1 for new or expanded service
191 connections. During the presentation, he noted that that the objective of the FRC Study was to
192 ensure that the charges collected reflect the estimated reasonable cost of providing access to the
193 water systems capacity for new developments or expanded service, based on the estimated cost
194 and value of the system capacity in both Novato and West Marin.

195 President Petterle asked if there were any comments or questions from the Directors.

196 Director Joly asked if relative water usage was used in the calculation of the proposed
197 fees. Mr. Williams replied that the calculation is based on the actual water use and proportional
198 to the baseline of a single-family dwelling. Mr. Hildebrand added that the proposed fees would
199 replace the current fees. Director Joly stated that it was a wonderful report and a very definitive
200 study. Mr. Williams noted that Carl Nelson, NMWD legal counsel, reviewed Mr. Hildebrand's
201 report. He informed the Board that no legal flaws were found, and Mr. Nelson will also come to
202 the December 6th hearing in the event any of the public had questions.

203 Mr. Clark, referring to one of Mr. Hildebrand's presentation slides, suggested that
204 comparisons to other small water systems such as Inverness PUD or Bolinas would be prudent.
205 Mr. Hildebrand stated that he did not look at those smaller systems, but would be happy to include
206 them in the next presentation. Mr. Williams noted that Bolinas currently does not allow any new
207 connections, and suggested maybe Stinson Beach Water District should be compared in lieu of
208 Bolinas. Director Joly asked why NMWD's fees were higher than MMWD. Mr. Hildebrand replied
209 that that it is because the District's calculation includes cost of water resources. He added that
210 this is a big component of capacity calculations which also includes the cost of infrastructure,
211 pipes, pumps, tanks, etc. Mr. Hildebrand noted that the methodology he used included the cost
212 of water supply and infrastructure. He added that this requirement was necessary since an
213 increase in water supply is required to serve customers, noting he wouldn't be surprised with the
214 drought that other districts will do the same. Director Joly thanked Mr. Hildebrand for the
215 presentation.

216 President Petterle asked if anyone from the public would like to speak and there was no
217 response.

218 On the motion of Director Joly and seconded by Director Baker the Board approved
219 acceptance of the Facility Reserve Charge Study and set a Public Hearing for the December 6,
220 2022 Regular Board Meeting to Consider Amendments to Regulation 1: New Service
221 Connections, by the following vote:

222 AYES: Director Baker, Fraites, Joly and Petterle

223 NOES: None

224 ABSTAIN: None

225 ABSENT: None

226 Director Joly left the meeting for another obligation.

227 **REVISED DISTRICT SECRETARY JOB DESCRIPTION**

228 Mr. Williams stated that District management is proposing that the Board adopt the
229 updated job description reflecting certain changes to the District Secretary position, as well as to
230 change the job title from District Secretary to Executive Assistant/District Secretary to more
231 accurately reflect the dual purpose of the position in providing executive support to both the
232 General Manger and the Board of Directors. He noted that upon approval there will be an
233 immediate internal recruitment and posting of the position.

234 President Petterle asked if there were any comments or questions from the Directors and
235 there were none.

236 President Petterle asked if anyone from the public would like to speak and there was no

237 response.

238 On the motion of Director Fraites and seconded by Director Baker the Board approved the
239 revised Executive Assistant/District Secretary Job Description and classified the position as
240 exempt (salaried) under the FLSA by the following vote:

241 AYES: Director Baker, Fraites and Petterle

242 NOES: None

243 ABSTAIN: None

244 ABSENT: Director Joly

245 **SIDE LETTER AGREEMENT TO THE 2018-2023 NMWD/EMPLOYEE ASSOCIATION**

246 **MOU CONCERNING OPERATIONS/MAINTENANCE SUPERINTENDENT AND**

247 **CONSTRUCTION/ MAINTENANCE SUPERINTENDENT CLASSIFICATIONS**

248 Mr. Williams stated that the Operations/Maintenance Superintendent and
249 Construction/Maintenance Superintendent positions historically were classified as members of
250 the NMWD Employee Association (EA), even though these positions are considered managers
251 and heads of their departments and duties include hiring, disciplinary and firing decisions. He
252 added that the management functions of these classifications have prompted the need to consider
253 moving them out of the EA and into the Unrepresented Employees unit. Mr. Williams also thanked
254 Ms. Blue and Ms. Clyde for spearheading this side letter agreement.

255 President Petterle asked if there were any comments or questions from the Directors and
256 there were none.

257 President Petterle asked if anyone from the public would like to speak and there was no
258 response.

259 On the motion of Director Baker and seconded by Director Fraites the Board authorized
260 the General Manager to execute a Side Letter Agreement with the NMWD EA, titled,
261 Classifications of Operations/Maintenance Superintendent and Construction/Maintenance
262 Superintendent by the following vote:

263 AYES: Director Baker, Fraites and Petterle

264 NOES: None

265 ABSTAIN: None

266 ABSENT: Director Joly

267 **MANAGEMENT LEAVE POLICY & SIDE LETTER AGREEMENT TO THE 2018-2023**

268 **NMWD/EMPLOYEE ASSOCIATION MOU CONCERNING MANAGEMENT LEAVE**

269 Mr. Williams stated that the District managers are expected to provide 24/7 support to the
270 District's operations. He noted that given that District management positions are exempt from the

271 Fair Labor Standards Act, and they do not receive additional compensation (i.e. overtime pay) for
272 any hours worked beyond an eight-hour work day or 40-hour work week. Mr. Williams added that
273 as compensation, a recommendation by the District Labor Counsel is for the Board to consider
274 granting 80-hours of management leave for the unrepresented staff positions. He noted that, in
275 regards to Mr. Ramudo's position, he would still be a member of the Employee Association, but
276 is being included as part of this policy, because he is often asked to work after hours.

277 President Petterle asked if there were any comments or questions from the Directors and
278 there were none.

279 President Petterle asked if anyone from the public would like to speak and there was no
280 response.

281 Director Fraites made the motion to include the General Manager position in the
282 Management Leave Policy.

283 On the motion of Director Fraites and seconded by Director Baker the Board approved the
284 Management Leave Policy and approved the Side Letter Agreement to the 2018-2023
285 NMWD/Employee Association Memorandum of Understanding Concerning Management Leave
286 and included the General Manger position by the following vote:

287 AYES: Director Baker, Fraites and Petterle

288 NOES: None

289 ABSTAIN: None

290 ABSENT: Director Joly

291 **INFORMATION ITEMS**

292 **WAC/TAC MEETING – AUGUST 1, 2022**

293 Mr. Williams reported on the WAC/TAC Meeting held on August 1, 2022. He stated that
294 the minutes are self-explanatory, however he did want to discuss Item 11, the Integrated Regional
295 Water Management Plan Update. He noted that there is a regional grant for Advanced
296 Quantitative Precipitation Information System in which Sonoma Water is the lead agency. Mr.
297 Williams added that this program will develop forecast models, especially during periods of
298 extreme weather to aid Bay Area government decision makers to prepare for and mitigate future
299 weather damages. Additionally, Mr. Williams stated that he and Mr. Miller had a meeting with
300 Marin County Flood Control District about an update for the radar system in Marin County that
301 could provide flood warnings, but also could benefit us from a water management standpoint.

302 President Petterle asked if there were any comments or questions from the Directors.

303 Director Baker asked if Mr. Williams was at liberty to share of the name of the person he
304 was working with at the Flood District. He replied that Roger Leventhal has been working on the

305 project for the last five years. Director Baker stated that he has heard many good things about
306 Mr. Leventhal.

307 President Petterle asked if anyone from the public would like to speak and there was no
308 response.

309 **TAC MEETING – OCTOBER 3, 2022**

310 Mr. Williams reported on the TAC meeting held on October 3, 2022. He stated that these
311 minutes were also well done, however, he would like to focus on Item #7, the Sonoma Water Tank
312 Maintenance Project. Mr. Williams stated that he and Director Baker saw a video at the most
313 recent meeting which will be reflected in the next TAC Meeting minutes. He added that
314 Engineering and Operations staff are already in discussion with Sonoma Water on their plan to
315 recoat the Kastania Tank, and there has been good coordination and outreach.

316 President Petterle asked if there were any comments or questions from the Directors and
317 there were none.

318 President Petterle asked if anyone from the public would like to speak and there was no
319 response.

320 **NBWA MEETING – NOVEMBER 4, 2022**

321 Director Fraites announced this was the second to last meeting with Jack Gibson as the
322 NBWA Chair. Director Fraites reported on the NBWA meeting that was held on November 4,
323 2022. He stated that the main topic was the Petaluma River Greenway – Fostering Enhancement
324 of a Downtown Watershed Resource. A presentation was given by Stephanie Bastianon,
325 Executive Director of the Friends of the Petaluma River. Director Fraites stated that Ms.
326 Bastianon gave an overview of plans to progress the multi-benefit river corridor project in an
327 undeveloped and tidally influenced area near downtown Petaluma that would provide public
328 access, mitigate for sea level rise, protect sensitive habitat, and serve as a model for riparian
329 corridor protection in the watershed.

330 President Petterle asked if there were any comments or questions from the Directors or
331 staff.

332 Director Baker stated that he drives by that area frequently and wondered if it was in a
333 floodplain. Director Fraites replied that it is 35% of the area is in a 100-year floodplain and 47%
334 of the area is in a 500-year floodplain. He noted there were only 5 out of 15 parcels that were out
335 of the floodplain, noting a lot of improvements will be necessary for this project.

336 President Petterle asked if anyone from the public would like to speak and there was no
337 response.

338 **MISCELLANEOUS**

339 The Board received the following miscellaneous items: Disbursements – Dated November
340 3, 2022, Disbursements – Dated November 10, 2022, Monthly Progress Report, Point Reyes
341 Light -Salinity Notice – October 27, 2022, Point Reyes Light - Salinity Notice – November 3, 2022
342 and Point Reyes Light - Salinity Notice – November 10, 2022.

343 The Board received the following news articles: Marin IJ – Desalination process must
344 improve as state’s reliance increases – CALIFORNIA VOICE; Marin IJ – District finishes new
345 water well to cut salt influx – WEST MARIN; Marin IJ – Doctors warn of viral risk in Marin –
346 RESPIRATORY DISEASE; Marin IJ – COVID, flu-season of respiratory infections – SEASONAL
347 SICKNESS; and Press Democrat – Lake Sonoma’s level at lowest point in history, Experts say
348 reservoir as enough water to last another year – SONOMA COUNTY DROUGHT CONCERNS.

349 The Board received the following social media posts: NMWD Web and Social Media
350 Report – October 2022. The Board received the following social media posts: NMWD Web and
351 Social Media Report – September 2022.

352 President Petterle asked if there were any comments from the Directors and there were
353 none.

354 President Petterle asked if anyone from the public would like to speak and there was no
355 response.

356 **ADJOURNMENT**

357 President Petterle adjourned the meeting in the memory of Director Grossi at 7:31 p.m.

358 Submitted by

359

360 Theresa Kehoe
361 District Secretary
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MEMORANDUM

To: Board of Directors December 6, 2022
 From: Tony Williams, General Manager *TW*
 Subject: Re-Authorizing – Meetings by Teleconference of Legislative Bodies of North Marin Water District

t:\gm\bod misc 2022\board of directors meetings by teleconference 12.6.22 final.doc

RECOMMENDED ACTION: Adopt Resolution No. 22-XX: "Resolution Finding Proclaimed State of Emergency, That Local Officials Continue to Recommend Physical Distancing, and that Meeting in Person Would Present Imminent Risks to the Health or Safety of Attendees; and Re-Authorizing Meetings by Teleconference of Legislative Bodies of North Marin Water District from December 6, 2022 through January 5, 2023 Pursuant to Brown Act Provisions".

FINANCIAL IMPACT: None

As authorized by the Governor's Executive Order N-29-20, Board meetings have been held virtually since March 17, 2020 to protect attendees, including members of public, District employees, and Board members, from potential exposure to the novel coronavirus disease 2019 ("COVID-19"). On June 11, 2021, the Governor issued Executive Order N-08-21 which rescinded these temporary modifications to the Brown Act, effective September 30, 2021. On September 16, 2021, the Governor signed Assembly Bill 361 (2021) ("AB 361") amending the Brown Act to allow local legislative bodies to continue to conduct meetings virtually under specified conditions and pursuant to special rules on notice, attendance, and other matters. AB 361 took full effect on October 1, 2021.

AB 361 authorizes the Board of Directors to meet virtually during declared states of emergency without noticing the location of individual Board Members or requiring such locations to be open to the public if certain findings are made and certain procedures are followed. Where a virtual meeting is held pursuant to AB 361, the members of the public must be able to observe and participate during the meeting.

Approved by GM *TW*

Date *12/1/22*

The Governor's March 4, 2021 declaration of a State of Emergency remains in effect. On December 15, 2021, the State reinstated a universal masking requirement for all individuals while indoors to help combat the surge in COVID-19 cases due to the Omicron variant. On December 30, 2021, Marin County Health and Human Services issued new guidance changing the local rules on masking to align with the State mandate. On February 7, 2022, the State issued a new health order, effective February 16, 2022, which limits indoor masking requirements to specified indoor settings and unvaccinated individuals. However, both the State and Marin County Health and Human Services continue to recommend wearing masks while indoors. CDC, OSHA, and Cal/OSHA continue to recommend mask wearing and physical distancing of at least six feet while indoors to protect against transmission of COVID-19. Therefore, the current circumstances support a determination by the Board that meeting in person would continue to present imminent risks to the health and safety of attendees.

On October 5, 2021, the Board adopted Resolution 21-22, thereby finding a proclaimed state of emergency, that local officials continue to recommend physical distancing, and that meeting in person would present imminent risks to the health or safety of attendees; and authorizing meetings by teleconference of legislative bodies of North Marin Water District from October 5, 2021 through November 4, 2021 pursuant to Brown Act provisions.

On November 2, 2021, November 16, 2021, December 7, December 21, 2021, January 18, 2022, February 15, 2022, March 15, 2022, April 5, 2022, May 3, 2022, May 17, 2022, June 7, 2022, June 21, 2022, July 19, 2022, August 16, 2022, September 6, 2022, October 4, 2022, November 1, 2022 and December 6, 2022 the Board adopted Resolutions 21-26, -27, -28, -30, 22-01, -04, -05, -06, -12, -15, -17, -20, -24, -26, -27, -28, -29, -30 respectively, thereby finding a proclaimed state of emergency, that local officials continue to recommend physical distancing, and that meeting in person would present imminent risks to the health or safety of attendees; and re-authorizing meetings by teleconference of legislative bodies of North Marin Water District for 30 days pursuant to the Brown Act provisions.

If adopted, Resolution No. 22-XX will allow the Board to continue to meet virtually for another 30 days, after which the Board will need to reconsider its findings and confirm the need to hold virtual meetings. This reconsideration and confirmation will need to occur every thirty days until the Board determines it is safe to meet in person.

RECOMMENDED ACTION:

Adopt Resolution No. 22-XX: "Resolution Finding Proclaimed State of Emergency, That Local Officials Continue to Recommend Physical Distancing, and that Meeting in Person Would Present Imminent Risks to the Health or Safety of Attendees; and Re-Authorizing Meetings by Teleconference of Legislative Bodies of North Marin Water District from December 6, 2022 through January 5, 2023 Pursuant to Brown Act Provisions".

ATTACHMENTS: 1 – Resolution 22-XX

RESOLUTION NO. 22-XX

**RESOLUTION OF THE BOARD OF DIRECTORS OF NORTH MARIN WATER DISTRICT
FINDING PROCLAIMED STATE OF EMERGENCY, THAT LOCAL OFFICIALS
CONTINUE TO RECOMMEND PHYSICAL DISTANCING, AND THAT MEETING IN
PERSON WOULD PRESENT IMMINENT RISKS TO THE HEALTH OR SAFETY OF
ATTENDEES; AND RE-AUTHORIZING MEETINGS BY TELECONFERENCE OF
LEGISLATIVE BODIES OF NORTH MARIN WATER DISTRICT FROM DECEMBER 6,
2022 THROUGH JANUARY 5, 2023 PURSUANT TO BROWN ACT PROVISIONS**

WHEREAS, all meetings of the legislative bodies of the North Marin Water District (“District”) are open and public, as required by the Ralph M. Brown Act (“Brown Act”), Government Code Section 54950, *et seq.*, and any member of the public may observe, attend, and participate in the business of such legislative bodies; and

WHEREAS, on March 4, 2020, Governor Newsom declared a State of Emergency as a result of the rapid spread of the novel coronavirus disease 2019 (“COVID-19”); and

WHEREAS, on March 10, 2020, the Board of Supervisors of the County of Marin ratified proclamations of health and local emergency due to COVID-19; and

WHEREAS, on March 16, 2020, the City Council of the City of Novato ratified and confirmed a proclamation of local emergency due to COVID-19;

WHEREAS, on March 17, 2020, in response to the COVID-19 pandemic, Governor Newsom issued Executive Order N-29-20 suspending certain provisions of the Brown Act in order to allow local legislative bodies to conduct meetings telephonically or by other means, after which District staff implemented virtual meetings for all meetings of legislative bodies within the District; and

WHEREAS, on June 11, 2021, Governor Newsom issued Executive Order N-08-21, which terminated the provisions of Executive Order N-29-20 that allows local legislative bodies to conduct meetings telephonically or by other means effective September 30, 2021; and

WHEREAS, on September 16, 2021, Governor Newsom signed Assembly Bill 361 (2021) (“AB 361”), which amended the Brown Act to allow local legislative bodies to continue to conduct meetings by teleconference under specified conditions and pursuant to special rules on notice, attendance, and other matters; and

WHEREAS, AB 361 took full effect on October 1, 2021, and makes provisions under Government Code section 54953(e) for remote teleconferencing participation in meetings by members of a legislative body, without compliance with the requirements of Government Code section 54953(b)(3), subject to the existence of certain conditions; and

WHEREAS, a required condition is that a state of emergency is declared by the Governor pursuant to Government Code section 8625, proclaiming the existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by conditions as described in Government Code section 8558; and

WHEREAS, it is further required that state or local officials have imposed or, local officials have recommended, measures to promote social distancing, or, the legislative body must find that meeting in person would present imminent risks to the health and safety of attendees; and

WHEREAS, on October 5, 2021, the Board of Directors previously adopted Resolution No. 21-22, finding that the requisite conditions exist for the legislative bodies of North Marin Water District ("District") to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on November 2, 2021, the Board of Directors previously adopted Resolution No. 21-26, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on November 16, 2021, the Board of Directors previously adopted Resolution No. 21-27, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on December 7, 2021, the Board of Directors previously adopted Resolution No. 21-28, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on December 21, 2021, the Board of Directors previously adopted Resolution No. 21-30, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on January 18, 2022, the Board of Directors previously adopted Resolution No. 22-01, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on February 15, 2022, the Board of Directors previously adopted Resolution No. 22-04, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on March 15, 2022, the Board of Directors previously adopted Resolution No. 22-05, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on April 5, 2022, the Board of Directors previously adopted Resolution No. 22-06, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on May 3, 2022, the Board of Directors previously adopted Resolution No. 22-12, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on May 17, 2022, the Board of Directors previously adopted Resolution No. 22-15, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on June 7, 2022, the Board of Directors previously adopted Resolution No. 22-17, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on June 21, 2022, the Board of Directors previously adopted Resolution No. 22-20, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on July 19, 2022, the Board of Directors previously adopted Resolution No. 22-24, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on August 16, 2022, the Board of Directors previously adopted Resolution No. 22-26, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on September 6, 2022, the Board of Directors previously adopted Resolution No. 22-27, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on October 4, 2022, the Board of Directors previously adopted Resolution No. 22-28, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on November 1, 2022, the Board of Directors previously adopted Resolution No. 22-29, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, on November 15, 2022, the Board of Directors previously adopted Resolution No. 22-30, reaffirming the finding that the requisite conditions exist for the legislative bodies of North Marin Water District to continue to conduct remote teleconference meetings without compliance with paragraph (3) of subdivision (b) of section 54953; and

WHEREAS, as a condition of extending the use of the provisions found in section 54953 (e), the Board of Directors must reconsider the circumstances of the state of emergency that exists in the District, and the Board of Directors has done so; and

WHEREAS, emergency conditions continue to persist in the District, specifically, the State of Emergency for the State of California declared by Governor Newsom as a result of the COVID-19 pandemic remains in effect; and

WHEREAS, the Centers for Disease Control and Prevention (“CDC”) recommends physical distancing of at least six feet from unvaccinated individuals while indoors; and

WHEREAS, “Protecting Workers: Guidance on Mitigating and Preventing the Spread of COVID-19 in the Workplace,” promulgated by the Occupational Safety and Health Administration (“OSHA”) under the United States Department of Labor, provides that “[m]aintaining physical distancing at the workplace for unvaccinated and at-risk workers is an important control to limit the spread of COVID-19” and recommends that employers train employees about the airborne nature of COVID-19 and importance of exercising multiple layers of safety measures, including physical distancing, and that employers implement “physical distancing in all communal work areas for unvaccinated and otherwise at-risk workers,” including physical distancing from members of the public, as a “key way to protect such workers”; and

WHEREAS, Title 8, Section 3205, subdivision (c)(5)(D) of the California Code of Regulations, promulgated by the Division of Occupational Safety and Health of the California Department of Industrial Relations (“Cal/OSHA”), requires employers to provide instruction to employees on using a combination of “physical distancing, face coverings, increased ventilation indoors, and respiratory protection” to decrease the spread of COVID-19; and

WHEREAS, the Board of Directors recognizes the recommendations by state and local officials to use physical distancing as a layer of protection against COVID-19 and desires to continue to provide a safe workplace for its employees and a safe environment for the open and public meetings of the District’s legislative bodies; and

WHEREAS, due to the continued threat of COVID-19, the District continues to implement multiple layers of protection against COVID-19, including physical distancing, for the safety of employees and members of the public; and

WHEREAS, while the District believes District work-related activities may be conducted safely in person through imposition of various safety protocols, Board meetings continue to present a unique challenge due to their being open to the public generally, with limited space in the boardroom, and no ability to verify vaccination status or to provide contact tracing for potentially exposed individual attendees; and

WHEREAS, the Board of Directors hereby finds that the presence of COVID-19 and the increase of cases due to the Omicron variant has caused, and will continue to cause, conditions of concern to the safety of certain persons within the District, including older and immunocompromised individuals that are likely to be beyond the control of the services, personnel, equipment, and facilities of the District, and, therefore, continues to present imminent risks to the health or safety of attendees, including members of the public and District employees, should meetings of the District’s legislative bodies be held in person; and

WHEREAS, as a consequence of the local emergency persisting, the Board of Directors does hereby find that the legislative bodies of North Marin Water District shall continue to conduct their meetings without compliance with paragraph (3) of subdivision (b) of Government Code section 54953, as authorized by subdivision (e) of section 54953, and that such legislative bodies shall continue to comply with the requirements to provide the public with access to the meetings as prescribed in paragraph (2) of subdivision (e) of section 54953; and

WHEREAS, the District will continue to conduct meetings for all meetings of legislative bodies within the District virtually (i.e. through the use of Zoom, or similar virtual meeting provider) and/or telephonically, in conformance with requirements under the Brown Act.

THEREFORE, BE IT RESOLVED by the Board of Directors of the North Marin Water District as follows:

1. The above recitals are true and correct and hereby incorporated into this Resolution.
2. In compliance with the special teleconference rules of Section 54953 of the Government Code, as established by Assembly Bill 361 (2021), the Board of Directors hereby makes the following findings:
 - a. The Board of Directors has considered the circumstances of the state of emergency; and
 - b. The states of emergency, as declared by the Governor, continue to impact directly the ability of the District's legislative bodies, as well as staff and members of the public, to safely meet in person;
 - c. The CDC, and Cal/OSHA continue to recommend physical distancing of at least six feet to protect against transmission of COVID-19; and
 - d. Meeting in person would continue to present imminent risks to the health and safety of members of the public, members of the District's legislative bodies, and District employees due to the continued presence and threat of COVID-19.
3. The District's legislative bodies may continue to meet remotely from December 6, 2022 through January 5, 2023 in compliance with the special teleconference rules of Section 54953 of the Government Code, as amended by Assembly Bill 361 (2021), in order to protect the health and safety of the public.
4. The Board of Directors will review these findings and the need to conduct meetings by teleconference within thirty (30) days of adoption of this resolution.

* * * * *

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the 6th day of December 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

Theresa Kehoe, Secretary
North Marin Water District

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9



MEMORANDUM

To: Board of Directors Date: December 6, 2022
From: Eric Miller, Chief Engineer / Assistant General Manager *EM*
Subject: Extension of Half Moon Tank License Agreement for Novato Sanitary District Antenna
t:\gm\agreements\nsd\halfmoon\bod nsd half moon extension.docx

RECOMMENDED ACTION: Approve Extension of Half Moon Tank License Agreement for NSD Antenna

FINANCIAL IMPACT: \$570 annual income

Novato Sanitary District (NSD) currently has a ten-year license agreement with the District allowing use of the Half Moon Tank site to place an antenna, and 24" x 30" equipment box. The antenna was first moved to this site in 1995 to aid in the NSD sewer control system operation. The current license runs through January 31, 2023 with a provision to extend the term of the agreement for an additional ten years. NSD has requested to exercise this option and has asked to extend the agreement for another ten years.

The Novato Sanitary District has requested an extension according to the agreement terms and is in good standing with the District. Therefore, staff requests authorization to grant a license agreement extension by virtue of a new agreement for a ten-year term effective from February 1, 2023 to January 31, 2023 (Attachment 1).

RECOMMENDATION:

Board approve extension of ten-year license agreement for Novato Sanitary District use of the Half Moon Tank site.

ATTACHMENTS: 1. Letter Agreement

Approved by GM *ABW*

Date *12/1/22*

LICENSE AGREEMENT

THIS LICENSE AGREEMENT was made on February 1, 2023 by and between NORTH MARIN WATER DISTRICT, herein called "Water District," and NOVATO SANITARY DISTRICT, herein called "Sanitary District".

1. Grant of License

The Water District hereby grants to the Sanitary District a revocable license to enter the Water District's Half Moon Tank site ("the site") for the purpose of installing, operating, maintaining and replacing sanitary sewer pump station alarm communication equipment, subject to the following considerations and conditions.

- (a) The sole use of the sanitary sewer pump station alarm communications equipment, hereinafter described as Alarm Telemetry Equipment, will be installed at the site by the Sanitary District or its authorized representatives.
- (b) Costs of future maintenance or replacement shall be borne by the Sanitary District.
- (c) Other Sanitary District owned equipment or other non-radio related equipment that the Sanitary District may deem necessary or advisable to add in the future may be added with the prior written consent of the Water District.
- (d) The Water District shall solely pay the PG&E electrical bill in its entirety.

2. Term

The term of this license is ten years, beginning on February 1, 2023 and ending on February 1, 2033

3. Option to Extend Term

The Water District hereby grants to the Sanitary District, the option to extend the term of this license for an additional ten (10) years beginning on the last day of the original term and ending ten (10) years thereafter. Request to exercise said option must be made by the Sanitary District in writing at least sixty (60) days before expiration of the term. The Sanitary District may exercise this option only if the original license remains in effect and the Sanitary District delivers to the Water District written notice requesting said option not later than December 1, 2032.

4. Limitations on Use During License Period

a. The Sanitary District's use of the site shall not hinder or interfere with the Water District's operation and maintenance of its Half Moon Tank and other related water supply facilities.

b. The Sanitary District's use of the site shall not compromise the security of the site or the quality of water in the tank. Contractors utilized by the Sanitary District on the site shall be accompanied by Sanitary District personnel at all times.

c. The Sanitary District shall not do any grading or excavation on the site and shall not erect any structure thereon except the facilities described in Section 1 hereof without the written consent of the Water District. All of the Sanitary District's work shall be accomplished at the Sanitary District's expense and in accordance with plans and specifications approved in writing by the Water District and permits issued by the City of Novato. The Sanitary District shall not permit any lien or encumbrance to be placed on the site.

d. Alarm Telemetry Equipment shall not interfere with public reception or transmission of radio or television signals. If interference is traceable to the Sanitary District's Alarm Telemetry Equipment or operation thereof on the site, the Sanitary District shall correct the cause without delay.

e. The Sanitary District shall operate the Alarm Telemetry Equipment in accordance with all applicable city, county, state and federal regulations, ordinances and statutes now or hereafter in effect and shall, at its expense, maintain in effect throughout the time of this license all permits, licenses and authorizations required by law for operations of said facilities.

f. The Sanitary District shall maintain the facilities at all times in a clean, safe and orderly condition.

5. Reimbursement Payments by Sanitary District

The Sanitary District shall reimburse the Water District annually, on the anniversary of this agreement, for electrical cost incurred by the Water District in operating the radio transmitting facilities. Said cost is estimated at \$570 per tank site annually. The first payment shall be due February 1, 2023.

6. Termination

The Sanitary District acknowledges that its rights under this license are subordinate to the prior and superior right of the Water District to use the site for the purpose of providing a public water supply. The Water District reserves the right to terminate the license at any time it is

reasonably necessary to carry out its said public water supply purpose as solely determined by the Water District. It is acknowledged that the Alarm Telemetry Equipment is critical to the operating communications of the Sanitary District and no action to terminate the license may be initiated by the Water District unless the water emergency need to terminate outweighs the public need to keep the Alarm Telemetry Equipment operational as determined solely by the Water District. In the event of an emergency need to terminate the operation of the Alarm Telemetry Equipment, the Water District shall promptly notify the Sanitary District so measures can be taken by the Sanitary District to locate a secondary site for relocation of the Alarm Telemetry Equipment or implement other measures to maintain communications. Either party may terminate this agreement at any time by providing the other party with two weeks written notice.

7. Removal of Personal Property and Structures

Upon expiration of the term of the license or the sooner termination thereof, the Sanitary District shall, at its expense, remove all the Alarm Telemetry Equipment and personal property, installed at the site, leaving it vacant and clean, and shall restore the site as nearly as possible to the condition it was in at the commencement of this license. If the Sanitary District fails to do so, the Water District may cause the work to be done and the Sanitary District shall reimburse the Water District for its costs thereby incurred.

From time to time the Sanitary District facilities may require removal and relocation or reinstallation to accommodate maintenance of Water District facilities. Under these circumstances Water District shall provide reasonable notice of minimum 10 working days to the Sanitary District which shall, at the Sanitary District's sole expense, remove and relocate or reinstall said facilities. If the Sanitary District fails to do so, the Water District may cause the work to be done and the Sanitary District shall reimburse the Water District for its costs thereby incurred.

8. Water District to be Held Harmless; Insurance

The Sanitary District shall hold the Water District harmless, defend and indemnify Water District and its officers, officials, employees and volunteers from and against all claims, damages, losses and expenses including attorney fees arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence, or willful misconduct of the District

For the duration of this license the Sanitary District shall continuously maintain and pay for general and auto liability insurance written by an insurance company admitted by the California Department of Insurance and have a Best's rating of not less than A-VII and insuring both the Water District and Sanitary District with bodily injury, personal injury and property damage coverage in amounts not less than one million dollars (\$1,000,000) per occurrence. Such insurance coverage shall specifically name the Water District as an Additional Insured. If said insurance is on a "claims made" rather than "occurrence" basis, said insurance shall be accompanied by a policy with the same limits covering claims made within one year after the date of expiration or termination of this license. The Sanitary District shall deliver to the Water District a certificate and endorsement signed by an authorized agent of this insurance company stating that the insurance has been issued and is in good standing, and that said policy shall not be canceled without 30 days notice in writing to the Water District.

The Sanitary District shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor to the District for review and approval. All coverage for subcontractors shall be subject to all of the requirements stated herein.

Absence of proper insurance shall be grounds for immediate termination of this license.

9. Non-Assignability

This license shall not be assignable by the Sanitary District or by operation of law without the prior written consent of Water District; said consent shall not be unreasonably withheld.

IN WITNESS WHEREOF, the parties hereto have caused this license to be executed as of the day and year first above written.

NORTH MARIN WATER DISTRICT

NOVATO SANITARY DISTRICT

By: _____
Rick Fraites
President, Board of Directors

By: _____
Timothy Fuelle
President, Board of Directors

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**MEMORANDUM**

To: Board of Directors
From: Tony Williams, General Manager *TW*
Subject: Resolution of Appreciation for James Grossi
t:\gmbod misc 2022\12-6-22 grossi resol\12-6-22 grossi appreciation reso.docx

Date: December 6, 2022

RECOMMENDED ACTION: Board Approve the Resolution of Appreciation (Posthumous) to Director James Grossi

FINANCIAL IMPACT: None

Director Grossi passed away on November 4, 2022 and a vacancy was officially declared by the Board of Directors at the November 15, 2022 meeting. Director Grossi began his service as a Director for the North Marin Water District in 2017. On October 25th the Marin County Board of Supervisors appointed him as Director in lieu of election (since he ran unopposed) for the upcoming term which began on December 2, 2022. It is appropriate to convey appreciation for Director Grossi's service to the District and adopt the attached resolution of appreciation.

RECOMMENDATION:

Board adopt the resolution of appreciation (posthumous) for James Grossi.

ATTACHMENT: 1 - Resolution for James Grossi

Resolution 22-XX

North Marin Water District

Resolution of Appreciation (Posthumous)
To
James Grossi

WHEREAS:

- James Grossi was appointed to the Board of Directors of North Marin Water District on August 22, 2017 and has served continuously for the past 5 years as a member of the Board of Directors.
- Director Grossi served as President of the Board in 2021.
- Director Grossi has served diligently and conscientiously on the Board of Directors as the District met the needs of the Novato and West Marin communities which benefited significantly from his accumulated engineering experience and expertise as well as his integrity, dedication and spirit of cooperation.
- Some of the many accomplishments achieved under Director Grossi's tenure on the Board included the development of key Rates Studies for Novato and West Marin Service Areas, completion of a Local Water Supply Enhancement Study for the Novato Service Area; a new 125,000-gallon Water Tank in Paradise Ranch Estates, a successful restoration of the streambank along Lagunitas Creek at the Gallagher Ranch, and completion and start-up of the Gallagher Well No. 2 in West Marin.
- Director Grossi, serving on the Drought Ad-hoc Committee, saw the continued growth of the District's highly regarded water conservation program and supported various programs to cost effectively and efficiently conserve water while maintaining a reasonable cost of service.
- Director Grossi believed that the key to the District's success is its employees, and was therefore a staunch supporter of initiatives that served to enhance employee working conditions and to provide the tools necessary for the District to provide exceptional service to its customers.
- During his tenure Director Grossi has contributed to the District's efforts to properly maintain the District's critical infrastructure system consisting of pipelines, pumps, reservoirs, treatment plants, hydrants, laboratory, and more by striving for a responsible balance between revenue generation and infrastructure maintenance and repair. As a result of his efforts, District water rates remain reasonable, while the District's financial strength remains strong to adequately fund necessary infrastructure improvement projects.

THEREFORE, BE IT RESOLVED:

That the Board of Directors of North Marin Water District hereby expresses its sincere appreciation and commends James Grossi for his years of devoted public service and his invaluable and numerous contributions to North Marin Water District and the Novato and West Marin communities.

Dated at Novato, California
December 6, 2022

Rick Fraites, President
North Marin Water District

* * * * *

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the sixth day of December 2022 by the following vote:

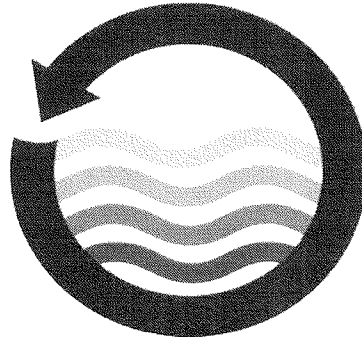
AYES:
NOES:
ABSTAINED:
ABSENT:

Terrie Kehoe, District Secretary
North Marin Water District

(SEAL)

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NORTH MARIN WATER DISTRICT



FINANCIAL STATEMENT FISCAL YEAR 2022-23

September 30, 2022

**NORTH MARIN WATER DISTRICT
FINANCIAL STATEMENTS
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MEMORANDUM

To: Tony Williams, General Manager

November 30, 2022

From: Reviewed by: Julie Blue, Auditor-Controller

Prepared by: Nancy Holton, Accounting Supervisor and Nancy Williamson, Senior Accountant

Subj: Information – FY22/23 September Financial Statement

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FISCAL YEAR PERFORMANCE COMPARED TO THE ANNUAL BUDGET

<u>CONSOLIDATED SUMMARY</u>	Sep-22	FY22/23	FY22/23	FYTD /
Actual vs. Budget	Actual	Actual YTD	Budget	Budget %
Operating Revenue	\$2,572,973	\$7,868,959	\$25,552,000	31%
Operating Expense	2,075,547	6,378,921	23,093,000	28%
Non-Operating Revenue / (Expense)	(68,786)	239,915	(1,519,000)	(16%)
Net Income / (Loss)	\$428,640	\$1,729,953	\$940,000	184%
Other Sources / (Uses)*	(673,538)	(4,042,096)	(3,865,000)	105%
Cash Increase / (Decrease)	(\$244,898)	(\$2,312,143)	(\$2,925,000)	79%

* See Page 8.

For the first quarter of the fiscal year 2022-2023, the District generated a net income of \$1,729,953 and saw a net cash decrease of \$2,312,143. On a seasonally adjusted basis, Operating Revenue came in 4% under budget and Operating Expense came in 2% over budget. \$2,175,663 (11%) of the Capital Improvement Projects Budget was expended this fiscal year to date. At month end the ratio of total cash to budgeted annual operating expense (sans depreciation) stood at 226%.

**SUMMARY INCOME STATEMENTS BY SERVICE AREA
PRESENTED IN ACCORDANCE WITH GENERALLY ACCEPTED ACCOUNTING PRINCIPALS**

<u>NOVATO WATER</u>	Sep-22	FY22/23	FY21/22	FY23 vs 22
Year over Year Comparison	Actual	Actual YTD	Actual YTD	Up/(Down)
Operating Revenue	\$2,180,400	\$6,685,879	\$5,961,663	12%
Operating Expense	1,826,405	5,618,241	5,470,792	3%
Other Income / (Expense)	(25,969)	277,967	(30,947)	-
Net Income / (Loss)	\$283,493	\$1,345,605	\$459,923	193%
Active Accounts	20,740	20,740	20,621	(1%)
Consumption (MG)	211	682	669	2%
Average Commodity Rate / 1,000 gal	\$7.48	\$7.22	\$6.83	6%
Income / (Loss) / Active Account	\$13.67	\$64.88	\$22.30	191%
Income / (Loss) / 1,000 Gal	\$1.34	\$1.97	\$0.69	0%
Connection Fee Revenue	\$0	\$10,000	\$763,180	(99%)
FRC Transfer (to)/from Recycled Water	(\$116,129)	(\$216,362)	(\$216,362)	0%
Caltrans Capital Contribution	\$0	\$0	\$8,145	0%
MMWD AEEP Capital Contribution	\$0	\$0	\$205,320	0%
Developer 'In-Kind' Contributions	\$20,965	\$108,187	\$172,193	(37%)

Consumption for the fiscal year to date was 3% more than the prior year same period. Total operating revenue, which includes wheeling and other miscellaneous service charges, increased 12% (\$724,215) from the prior year same period. Included in the above charges is a drought surcharge of 5% for all customers. Total operating expense was \$147,448 more than last year.

The Stafford Treatment Plant produced 182 MG this fiscal year-to-date at a cost of \$3,725/MG¹ versus \$3,382/MG³ from SCWA. The budget for Stafford is 500 MG at a cost of \$4,365/MG.

The fiscal year net income (which includes non-operating items such as interest revenue and expense) of \$1,345,605 compares to a budgeted net income for the year of \$1,098,000 and to a net income of \$459,923 for the prior year. \$1,902,845 (11%) of the Novato Water Capital Improvement Project Budget was spent versus \$771,158 (9%) for the prior year. \$10,000 in connection fees have been collected (\$872,000 is budgeted). Connection Fee reserves totaling \$216,362 were transferred this fiscal year from the Novato Water Fund to the Recycled Water Fund. The Novato Connection Fee Reserve has a net deficit of \$7,173,502 arising from transfers to the RW Fund in advance of Connection Fee receipts. This is up from a net deficit of \$4,707,200 last year. That deficit will be reimbursed by future Connection Fee revenue. The Novato cash balance decreased \$372,454 in September, and stood at \$34,544,618 at month end, compared to a budgeted projection of \$16,319,000 at fiscal year-end.

<u>NOVATO RECYCLED</u>	Sep-22	FY22/23	FY21/22	FY23 vs 22
Year over Year Comparison	<u>Actual</u>	<u>Actual YTD</u>	<u>Actual YTD</u>	<u>Up/(Down)</u>
Operating Revenue	\$205,566	\$781,619	\$899,221	(13%)
Operating Expense	123,916	432,868	443,639	(2%)
Other Income / (Expense)	(1,460)	(38,298)	(50,261)	(24%)
Net Income / (Loss)	<u>\$80,190</u>	<u>\$310,453</u>	<u>\$405,321</u>	(23%)
Active Accounts	99	99	96	3%
Consumption (MG)	28	107	131.1	(18%)
Average Commodity Rate / 1,000 gal (net)	\$7.04	\$6.94	\$6.59	5%
Deer Island Production (MG)	0.0	0.0	0.0	-
Novato Sanitary Production (MG)	22.2	90.1	102.5	(12%)
Las Gallinas Production (MG)	7.0	23.8	21.4	11%
Potable Water Input (MG)	1.0	1.0	1.2	(19%)
Connection Fee Alloc from Novato	\$116,129	\$216,362	\$216,362	0%
Developer 'In-Kind' Contributions	\$0	\$0	\$0	-
RW Costs	\$42,670	\$166,658	\$180,921	(8%)

107.1 MG was delivered to RW customers this fiscal year to date, 18% less than the prior year. Operating revenue was 13% less than last year. Total operating expense was 2% less than the prior year. The recycled water was produced at a cost of \$1,768/MG² (including potable water consumed) versus \$3,382/MG³ from SCWA. The budgeted production cost of recycled water is \$2,827/MG.

The fiscal year net income of \$310,453 compares to a budgeted net loss for the year of \$389,000 and a net income of \$405,321 for the prior year. \$0 (0%) of the Recycled Water Capital Improvement Project Budget was spent versus \$27,184 (27%) for the prior year.

The Novato Recycled cash balance stood at \$6,771,601 at month end, \$3.5M of which amount resides in restricted reserves for debt service, the Deer Island Facility Replacement Fund and the Recycled Water Capital Replacement and Expansion Fund.

¹ Stafford production cost = TP op expense (\$489,056) + SRF loan interest (\$41,313) + plant depreciation (\$147,542)/182 MG produced

² Recycled Water production cost = purchased water cost (\$166,658) + treatment expense (\$0) + Deer Island RW Facility SRF loan interest (\$7,642) + Deer Island plant depreciation (\$28,980)/115 MG produced

³ SCWA production cost per MG = O&M charge (\$2,753) + debt service charge (\$232) + Russian River conservation charge (\$354) + Russian River projects charge (\$43)

WEST MARIN WATER	Sep-22	FY22/23	FY21/22	FY23 vs 22
Year over Year Comparison	Actual	Actual YTD	Actual YTD	Up/(Down)
Operating Revenue	\$161,627	\$325,322	\$293,031	11%
Operating Expense	103,560	272,517	220,551	24%
Other Income / (Expense)	700	(2,509)	(5,146)	(51%)
Net Income / (Loss)	<u>\$58,766</u>	<u>\$50,295</u>	<u>\$67,334</u>	(25%)
Active Accounts	792	792	787	1%
Consumption (MG)	7.2	19.2	16.3	18%
Average Commodity Rate / 1,000 gal (net)	\$19.44	\$13.71	\$14.50	(5%)
Income/ (Loss) / Active Account	\$74.20	\$63.50	\$85.56	(26%)
Income / (Loss) / 1,000 Gal	\$8.13	\$2.62	\$4.14	(37%)
Connection Fee Revenue	\$0	\$0	\$30,800	(100%)
Developer 'In-Kind' Contributions	\$13,787	\$47,358	\$3,659	1194%

Consumption for the fiscal year was 18% more than the prior year. Operating revenue was 11% more than last year.

Operating expenditures were \$51,967, or 24% more than the previous year. The fiscal year net income of \$50,295 compares to a budgeted annual net income of \$129,000 and to a net income of \$67,334 for the prior year. \$245,611 (38%) of the Capital Improvement Project Budget was expended this fiscal year, and \$0 in connection fees have been collected (\$0 is budgeted). The West Marin cash balance increased \$38,372 in September and stood at \$611,358 at month end, compared to a budgeted projection of \$934,000 at fiscal year-end.

OCEANA MARIN SEWER	Sep-22	FY22/23	FY21/22	FY23 vs 22
Year over Year Comparison	Actual	Actual YTD	Actual YTD	Up/(Down)
Operating Revenue	\$25,380	\$76,140	\$72,615	5%
Operating Expense	21,666	55,294	67,503	(18%)
Other Income / (Expense)	2,476	2,754	1,582	74%
Net Income / (Loss)	<u>\$6,191</u>	<u>\$23,600</u>	<u>\$6,694</u>	253%
Active Accounts	235	235	235	0%
Monthly Sewer Service Charge	\$108	\$108	\$103	5%
Income / (Loss) / Active Account	\$26.34	\$100.42	\$28.48	-
Connection Fee Revenue	\$0	\$0	\$0	-

Operating revenue of \$76,140 was 5% more than the previous year due to the 5% rate increase effective July 1, 2022. Operating expenditures were 18% or \$12,209 less than the previous year. The fiscal year net income of \$23,600 compares to a budgeted annual net income of \$102,000 and to a net income of \$6,694 for the prior year. \$27,207 (2%) of the Capital Improvement Project Budget has been expended this fiscal year.

No connection fees have been collected (\$0 is budgeted). The Oceana Marin cash balance decreased \$30,009 in September and stood at \$418,466 at month end, compared to a budgeted projection of \$297,000 at June 30, 2023.

**NORTH MARIN WATER DISTRICT
STATEMENT OF NET POSITION
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	TOTAL	NOVATO WATER	NOVATO RECYCLED	WEST MARIN WATER	OCEANA MARIN SEWER
ASSETS					
Cash & Investments					
Unrestricted/Undesignated Cash	\$4,242,244	\$622,452	\$3,013,785	\$261,806	\$344,200
Restricted Cash (Note 1)					
Connection Fee Fund	\$0	\$0	\$0	\$0	\$0
Deer Island RWF Replacement Fund	215,000	0	215,000	0	0
Capital Replacement & Expansion Fund	2,417,211	0	2,417,211	0	0
Tax Receipts Held in Marin Co Treasury	0	0	0	0	0
STP SRF Reserve-Marine Co Treasury	1,044,785	1,044,785	0	0	0
RWS North/South SRF Reserve Fund	614,299	0	614,299	0	0
RW Central Area SRF Reserve Fund	275,773	0	275,773	0	0
DL Falk Const Escrow Acct	51,335	51,335	0	0	0
Designated Cash (Note 2)					
Liability Contingency Fund	1,705,370	1,606,485	0	98,885	0
Workers' Compensation Fund	20,125	18,659	534	666	266
Retiree Medical Benefits Fund	4,658,025	4,658,025	0	0	0
Maintenance Accrual Fund	4,000,000	4,000,000	0	0	0
Operating Reserve Fund	6,339,000	5,780,000	235,000	250,000	74,000
Webster Bank-Admin Bldg/CIP Fund	17,102,240	17,102,240	0	0	0
Total Cash	\$42,685,407	\$34,883,982	\$6,771,601	\$611,358	\$418,466
Gain/(Loss) on MV of Investments	(\$339,363.65)	(\$339,364)	\$0	\$0	\$0
Market Value of Cash & Investments	\$42,346,043	\$34,544,618	\$6,771,601	\$611,358	\$418,466
Current Assets					
Net Receivables - Consumers	\$1,995,804	\$1,607,169	\$300,321	\$12,173	\$76,140
Accrued Water Sales	2,808,712	2,380,660	206,334	221,719	0
Accounts Receivable-Other	426,817	165,999	25,391	4,799	230,627
Prepaid Expense	1,098,373	1,097,745	0	0	629
Reimbursable Small Jobs	808	151	0	658	0
Interest Receivable	124,247	124,247	0	0	0
Inventories	898,458	898,458	0	0	0
Deposits Receivable	23,278	23,278	0	0	0
Total Current Assets	\$7,376,498	\$6,297,707	\$532,046	\$239,349	\$307,396

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**NORTH MARIN WATER DISTRICT
STATEMENT OF NET POSITION
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	TOTAL	NOVATO WATER	NOVATO RECYCLED	WEST MARIN WATER	OCEANA MARIN SEWER
Loans Receivable					
Employee Loans (Note 3)	\$250,000	\$250,000	\$0	\$0	\$0
Other Long Term Receivables (Note 4)	4,298,869	3,163,315	1,118,201	17,353	0
Loans Receivable	\$4,548,869	\$3,413,315	\$1,118,201	\$17,353	\$0
Property and Plant					
Land & Land Rights	\$1,493,091	\$1,368,872	\$0	\$123,411	\$808
Dam, Lake, & Source Facilities	5,675,845	5,183,433	0	492,412	0
Treatment Facilities	23,012,983	19,003,260	2,666,198	485,163	858,362
Storage Facilities	26,174,758	20,962,751	1,643,458	3,568,548	0
Transmission Facilities (16"+)	29,503,127	29,380,803	0	122,324	0
Distribution and Pumping Facilities	110,382,045	72,449,879	31,863,471	6,068,695	0
Sewer Mains, Pumps, & Laterals	1,267,600	0	0	0	1,267,600
Sub-Total	\$197,509,449	\$148,348,998	\$36,173,127	\$10,860,553	\$2,126,771
Less Accumulated Depreciation (Note 5)	(67,965,276)	(56,170,849)	(6,018,042)	(4,582,218)	(1,194,168)
Net Property and Plant	\$129,544,173	\$92,178,150	\$30,155,086	\$6,278,335	\$932,603
Buildings and Equipment (Note 6)					
Buildings	\$2,119,365	\$2,119,365	\$0	\$0	\$0
Office Equipment	1,239,206	1,239,206	0	0	0
Laboratory Equipment	323,072	323,072	0	0	0
Trucks & Automobiles	1,876,367	1,876,367	0	0	0
Construction Equipment	974,333	974,333	0	0	0
Tools, Shop Equipment	347,955	347,955	0	0	0
Lease Assets	587,691	587,691	0	0	0
Sub-Total	\$7,467,990	\$7,467,990	\$0	\$0	\$0
Less Accumulated Depreciation (Note 5)	(5,219,739)	(5,219,739)	0	0	0
Net Buildings and Equipment	\$2,248,250	\$2,248,250	\$0	\$0	\$0
Construction In Progress					
Developer	\$1,380,944	\$1,321,175	\$0	\$59,769	\$0
District	9,013,506	6,493,307	89,594	2,080,737	349,868
Total Construction in Progress	10,394,451	7,814,482	89,594	2,140,506	349,868
Net Utility Plant	142,186,874	102,240,882	30,244,680	8,418,842	1,282,471
Deferred Outflow of Resources-GASB68	2,769,512	2,769,512	0	0	0
Deferred Outflow of Resources-GASB75	28,485	28,485	0	0	0
TOTAL ASSETS	\$199,256,281	\$149,294,519	\$38,666,528	\$9,286,901	\$2,008,333

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**NORTH MARIN WATER DISTRICT
STATEMENT OF NET POSITION
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	<u>TOTAL</u>	<u>NOVATO WATER</u>	<u>NOVATO RECYCLED</u>	<u>WEST MARIN WATER</u>	<u>OCEANA MARIN SEWER</u>
LIABILITIES AND NET ASSETS					
Current Liabilities					
Trade Accounts Payable	\$1,862,494	\$1,702,597	\$150,459	\$9,438	\$0
Reimbursement Prog. Unclaimed Funds	379,976	359,726	0	20,250	0
Loan Debt Principal Payable-Current	1,208,917	442,223	766,694	0	0
Bank of Marin Principal Payable-Current	412,015	359,277	0	52,738	0
JP Morgan/Chase AMI Loan-Current	280,000	280,000	0	0	0
Webster Bank-Admin Bldg/CIP Loan-Current	879,669	879,669	0	0	0
Accrued Interest Payable-SRF Loan	154,826	41,313	113,513	0	0
JP Morgan/Chase AMI Loan Interest Payable	7,887	7,887	0	0	0
Webster Bank Loan Interest Payable	77,750	77,750	0	0	0
Deposits/Performance Bonds	411,237	377,737	0	30,500	3,000
Unemployment Insurance Reserve (Note 8)	23,616	23,616	0	0	0
Workers' Comp Future Claims Payable	20,125	18,659	534	666	266
Payroll Benefits (Note 9)	1,016,516	924,297	38,714	41,243	12,263
Enterprise Vehicle Leases	82,230	82,230	0	0	0
Lease Liability-Current	332,651	332,651	0	0	0
Deferred Revenue	228,420	0	0	0	228,420
Total Current Liabilities	\$7,378,328	\$5,909,631	\$1,069,914	\$154,835	\$243,949
Restricted Liabilities					
Construction Advances	\$576,313	\$461,680	\$0	\$114,633	\$0
Total Restricted Liabilities	\$576,313	\$461,680	\$0	\$114,633	\$0
Long Term Liabilities (Note 7)					
JP Morgan/Chase AMI Loan Payable	\$3,275,000	\$3,275,000	\$0	\$0	\$0
Webster Bank-Admin Bldg/CIP Loan Payable	19,120,331	19,120,331	0	0	0
WM Loan from Novato	1,000,000	0	0	1,000,000	0
STP Rehab SRF Loan	6,253,551	6,253,551	0	0	0
RWF SRF Loan	1,030,881	0	1,030,881	0	0
RWS North/South Expansion SRF Loan	5,359,962	0	5,359,962	0	0
RWS Central Expansion SRF Loan	6,073,389	0	6,073,389	0	0
Bank of Marin Loan	3,897,808	3,398,888	0	498,919	0
Enterprise Vehicle Leases	254,267	254,267	0	0	0
Lease Liability	66,841	66,841	0	0	0
Net Pension Liability	9,267,034	9,267,034	0	0	0
Total OPEB Liability (Note 2)	4,343,600	4,343,600	0	0	0
Total Long Term Liabilities	\$59,942,664	\$45,979,512	\$12,464,233	\$1,498,919	\$0
Deferred Inflow of Resources-GASB 68	8,578,329	8,578,329	0	0	0
Deferred Inflow of Resources-GASB 75	249,134	249,134	0	0	0
Deferred Inflow of Resources-Leases	379,439	\$358,298	0	\$21,141	0
TOTAL LIABILITIES	\$77,104,207	\$61,536,584	\$13,534,147	\$1,789,528	\$243,949

**NORTH MARIN WATER DISTRICT
STATEMENT OF NET POSITION
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	TOTAL	NOVATO WATER	NOVATO RECYCLED	WEST MARIN WATER	OCEANA MARIN SEWER
Net Assets					
Invested in Capital Assets					
Contributions in Aid of Construction	\$87,242,333	\$78,554,332	\$5,810,128	\$2,198,117	\$679,755
Grants in Aid of Construction	13,911,005	426,448	10,108,537	3,287,752	88,267
Connection Fees	46,147,455	31,169,684	11,783,068	2,485,347	709,356
Total Investment	\$147,300,792	\$110,150,464	\$27,701,734	\$7,971,216	\$1,477,378
Restricted Reserves					
Connection Fee Fund	(\$8,343,018)	(\$7,173,502)	\$0	(\$953,855)	(\$215,661)
Deer Island RWF Replacement Fund	215,000	0	215,000	0	0
Capital Replacement & Expansion Fund	2,417,211	0	2,417,211	0	0
RWS North/South SRF Reserve Fund	614,299	0	614,299	0	0
RW Central Area SRF Reserve Fund	275,773	0	275,773	0	0
Designated Reserves					
Liability Contingency Fund	1,705,370	1,606,485	0	98,885	0
Maintenance Accrual Fund	4,000,000	4,000,000	0	0	0
Retiree Medical Benefits Fund	2,759,513	2,759,513	0	0	0
Operating Reserve Fund	6,339,000	5,780,000	235,000	250,000	74,000
Webster Bank-Admin Bldg/CIP Reserve	17,102,240	17,102,240	0	0	0
Earned Surplus - Prior Yrs	(54,907,311)	(48,819,123)	(6,625,087)	127,832	409,067
Net Income/(Loss)	1,729,953	1,345,605	310,453	50,295	23,600
Transfer (To)/From Reserves (see below)	943,253	1,006,253	(12,000)	(47,000)	(4,000)
Total Restricted & Designated	(\$25,148,718)	(\$22,392,529)	(\$2,569,352)	(\$473,843)	\$287,006
TOTAL NET POSITION	\$122,152,075	\$87,757,936	\$25,132,382	\$7,497,373	\$1,764,384
Transfer (To)/From Reserves					
Connection Fee	\$0	\$0	\$0	\$0	\$0
Liability Reserve	0	0	0	0	0
Capital Replacement & Expansion Fund	0	0	0	0	0
Maintenance Reserve	0	0	0	0	0
RWF Replacement Fund	0	0	0	0	0
Retiree Medical Insurance Fund	0	0	0	0	0
(Gain)/Loss WC Fund	0	0	0	0	0
Bank of Marin Project Fund	0	0	0	0	0
Operating Reserve Fund	(120,000)	(57,000)	(12,000)	(47,000)	(4,000)
Trsf to Webster Bank-Admin Bldg/CIP Fund	1,063,253	1,063,253	0	0	0
Total Transfer	\$943,253	\$1,006,253	(\$12,000)	(\$47,000)	(\$4,000)
TOTAL LIABILITIES AND FUND BALANCE	\$199,256,282	\$149,294,520	\$38,666,528	\$9,286,901	\$2,008,333

**NORTH MARIN WATER DISTRICT
SOURCES AND USES OF FUNDS STATEMENT - ALL SERVICE AREAS COMBINED
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	YTD Actual	Annual Budget	YTD/ Budget %	Prior YTD Actual
OPERATING REVENUE				
Water Sales	\$5,937,401	\$19,147,000	31%	\$5,673,699
Bimonthly Service Charge	1,770,020	5,718,000	31%	1,411,201
Sewer Service Charge	76,140	306,000	25%	72,615
Wheeling & Misc Service Charges	85,398	381,000	22%	69,015
TOTAL OPERATING REVENUE	\$7,868,959	\$25,552,000	31%	\$7,226,530
OPERATING EXPENDITURES				
Source of Supply	\$1,840,100	\$6,182,000	30%	\$2,030,892
Pumping	151,713	627,000	24%	151,051
Operations	231,318	1,120,000	21%	224,277
Water Treatment	731,914	2,802,000	26%	551,269
Sewer Service	29,502	195,000	15%	44,515
Transmission & Distribution	973,800	3,898,000	25%	998,102
Consumer Accounting	100,687	508,000	20%	88,274
Water Conservation	104,197	462,000	23%	123,729
General & Administrative	1,072,672	3,222,000	33%	1,022,160
Depreciation	1,143,019	4,077,000	28%	968,216
TOTAL OPERATING EXPENDITURES	\$6,378,921	\$23,093,000	28%	\$6,202,485
NET OPERATING INCOME (LOSS)	\$1,490,039	\$2,459,000	61%	\$1,024,045
NON-OPERATING REVENUE/(EXPENSE)				
Tax Proceeds	\$0	\$123,000	0%	\$113
Interest Revenue	247,267	332,000	74%	47,920
Miscellaneous Revenue	296,597	142,000	209%	42,991
Bond & Loan Interest Expense	(289,635)	(1,119,000)	26%	(174,667)
Miscellaneous Expense	(14,315)	(407,000)	4%	(1,130)
Capital Contribution Expense-NSD & LGVSD	0	(590,000)	0%	0
TOTAL NON-OP REVENUE/(EXPENSE)	\$239,915	(\$1,519,000)	-16%	(\$84,773)
NET INCOME/(LOSS)	\$1,729,953	\$940,000	184%	\$939,273
OTHER SOURCES/(USES) OF FUNDS				
Add Depreciation Expense	\$1,143,019	\$4,077,000	28%	\$968,216
Connection Fees	10,000	902,000	1%	793,980
Loan Proceeds	0	12,719,000	0%	0
Grant Proceeds	0	800,000	0%	0
Marin County Club Loan Principal Pmts	16,851	39,000	43%	12,507
Caltrans AEEP Capital Contribution	0	0	-	8,145
MMWD AEEP Capital Contribution	0	205,000	0%	205,320
Capital Equipment Expenditures	(194,850)	(557,000)	35%	(77,872)
Capital Improvement Projects	(2,175,663)	(18,899,000)	12%	(900,617)
Lease Assets Acquisition	0	0	-	0
Bond & Loan Principal Payments	(383,663)	(3,459,000)	11%	(284,359)
Change in Working Capital	(2,457,790)	308,000		(323,324)
TOTAL OTHER SOURCES/(USES)	(\$4,042,096)	(\$3,865,000)	105%	\$401,996
CASH INCREASE/(DECREASE)	(\$2,312,143)	(\$2,925,000)	79%	\$1,341,268

**NORTH MARIN WATER DISTRICT
INCOME STATEMENT AND CASH FLOW BY SERVICE AREA
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

SUMMARY INCOME STATEMENT	TOTAL	NOVATO WATER	NOVATO RECYCLED	WEST MARIN WATER	OCEANA MARIN SEWER
Operating Revenue	\$7,868,959	\$6,685,879	\$781,619	\$325,322	\$76,140
Operating Expense	6,378,921	5,618,241	432,868	272,517	55,294
OPERATING INCOME/(LOSS)	\$1,490,039	\$1,067,638	\$348,751	\$52,804	\$20,846
Non-Operating Revenue/(Expense)	239,915	277,967	(38,298)	(2,509)	2,754
NET INCOME/(LOSS)	\$1,729,953	\$1,345,605	\$310,453	\$50,295	\$23,600
CAPITAL CONTRIBUTIONS					
Developer In-Kind Contributions	\$155,545	\$108,187	\$0	\$47,358	\$0
Caltrans AEEP Capital Contributions	0	0	0	0	0
Connection Fees	10,000	10,000	0	0	0
Cal OES & CA Dept of Water Resources Grants	0	0	0	0	0
FRC Transfer	0	(216,362)	216,362	0	0
CAPITAL CONTRIBUTIONS	\$165,545	(\$98,175)	\$216,362	\$47,358	\$0
Prior Period Adjustments	0	0	0	0	0
CHANGE IN NET POSITION	\$1,895,498	\$1,247,431	\$526,814	\$97,653	\$23,600
Net Position June 30, 2022	120,256,577	86,510,505	24,605,568	7,399,720	1,740,784
Net Position September 30, 2022	\$122,152,075	\$87,757,936	\$25,132,382	\$7,497,373	\$1,764,384
CASH FLOW STATEMENT					
Net Income/(Loss)	\$1,729,953	\$1,345,605	\$310,453	\$50,295	\$23,600
Add back Depreciation	1,143,019	864,324	197,128	69,881	11,686
Cash Generated From Operations	\$2,872,972	\$2,209,930	\$507,580	\$120,176	\$35,286
Other Sources (Uses) of Funds					
Connection Fee Revenue	\$10,000	\$10,000	\$0	\$0	\$0
Grant Proceeds	0	0	0	0	0
Capital Assets Acquisition	(2,370,513)	(2,097,695)	0	(245,611)	(27,207)
Caltrans AEEP Capital Contribution	0	0	0	0	0
Marin Country Club Loan Principal Pmts	16,851	0	16,851	0	0
Principal Paid on Debt	(383,663)	(205,855)	(164,759)	(13,048)	0
Consumer Receivables Decr (Incr)	(747,433)	(565,445)	(163,109)	57,261	(76,140)
Construction Advances (Decr) Incr	(168,226)	(120,867)	0	(47,358)	0
Other Assets Decr (Incr)	(743,074)	(466,535)	6,916	(55,665)	(227,789)
Other Liabilities (Decr) Incr	(87,305)	(296,827)	(18,323)	(1,827)	229,673
Trade Accounts Payable (Decr) Incr	(711,753)	(866,386)	150,459	4,175	0
Connection Fee Transfer	0	(216,362)	216,362	0	0
Interdistrict Transfers	0	0	0	0	0
Interdistrict Loan Due To (From)	0	0	0	0	0
Total Other Sources (Uses)	(\$5,185,115)	(\$4,825,973)	\$44,396	(\$302,075)	(\$101,463)
Net Cash Provided (Used)	(\$2,312,143)	(\$2,616,044)	\$551,976	(\$181,899)	(\$66,177)
MV Cash & Investments June 30, 2022	\$44,658,187	\$37,160,662	\$6,219,625	\$793,256	\$484,643
MV Cash & Investments Sept 30, 2022	\$42,346,043	\$34,544,618	\$6,771,601	\$611,358	\$418,466

**NOVATO WATER
 DETAIL INCOME STATEMENT
 FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
OPERATING REVENUE				
Water Sales	\$1,585,620	\$4,940,568	30%	\$4,590,909
Bill Adjustments	(6,371)	(14,268)	24%	(19,863)
Bimonthly Service Charges	572,829	1,675,968	31%	1,322,820
Account Turn-on Charges	7,605	19,510	32%	0
New Account Charges	405	1,180	30%	1,800
Returned Check Charges	54	72	6%	54
Hydrant Meter Up/Down Charges	200	300	8%	360
Backflow Service Charges	14,595	41,914	35%	39,185
Lab Service-Outside Clients	456	1,442	6%	2,048
Wheeling Charges - MMWD	5,008	19,193	14%	24,351
TOTAL OPERATING REVENUE	\$2,180,400	\$6,685,879	30%	\$5,961,663
TOTAL EXPENDITURES				
SOURCE OF SUPPLY				
Supervision & Engineering	\$248	\$2,006	22%	\$2,107
Operating Expense - Source	350	791	5%	418
Maint/Monitoring of Dam	0	19,388	51%	15,798
Maint of Lake & Intakes	0	0	0%	77
Maint of Structures	0	0	0%	0
Maint of Watershed	3,517	12,529	40%	3,549
Water Quality Surveillance	0	0	0%	183
Fishery Maint	0	0	0%	0
Erosion Control	0	0	0%	0
Purchased Water	492,362	1,629,049	29%	1,818,111
GASB68 Adjustment	0	0	0%	0
SOURCE OF SUPPLY	\$496,477	\$1,663,763	29%	\$1,840,243
PUMPING				
Operating Expense - Pumping	\$0	\$0	-	\$0
Maint of Structures & Grounds	2,070	7,152	22%	11,803
Maint of Pumping Equipment	1,234	3,455	7%	3,354
Electric Power	40,569	126,374	28%	116,687
GASB68 Adjustment (Pension)	0	0	0%	0
PUMPING	\$43,874	\$136,981	25%	\$131,843
OPERATIONS				
Supervision & Engineering	\$21,803	\$65,703	31%	\$63,108
Operating Expense - Operations	43,247	115,568	30%	107,658
Maintenance Expense	3,100	12,302	19%	11,901
Telemetry Equipment/Controls Maint	4,717	9,538	16%	7,322
Leased Lines	2,195	5,351	27%	5,929
GASB68 Adjustment (Pension)	0	0	0%	0
OPERATIONS	\$75,061	\$208,462	22%	\$195,919

**NOVATO WATER
 DETAIL INCOME STATEMENT
 FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
WATER TREATMENT				
Supervision & Engineering	\$14,527	\$43,657	23%	\$34,120
Operating Expense - Water Treatment	45,435	131,590	53%	112,506
Purification Chemicals	62,617	189,718	44%	78,852
Sludge Disposal	9,784	28,921	26%	35,780
Maint of Structures & Grounds	4,506	9,484	11%	5,692
Maint of Purification Equipment	7,521	40,154	18%	38,041
Electric Power	13,457	45,532	29%	28,348
Water Quality Programs	7,515	21,791	27%	20,316
Laboratory Direct Labor	32,949	95,541	20%	89,966
Lab Service-Outside Clients	3,853	10,868	99%	11,142
Water Quality Supervision	8,612	24,124	27%	19,832
Laboratory Supplies & Expense	13,609	31,666	42%	14,911
Customer Water Quality	3,696	13,932	31%	6,764
Lab Cost Distributed	(3,043)	(9,753)	-	(7,460)
GASB68 Adjustment (Pension)	0	0	0%	0
WATER TREATMENT	\$225,038	\$677,225	27%	\$488,810
TRANSMISSION & DISTRIBUTION				
Supervision & Engineering	\$65,631	\$176,836	26%	\$195,415
Maps & Records	39,370	84,051	58%	38,331
Operation of T&D System	8,355	31,901	34%	41,658
Facilities Location	10,245	28,421	21%	43,553
Safety: Construction & Engineering	4,945	14,237	36%	7,654
Customer Service Expense	21,711	65,894	25%	77,993
Flushing	0	7,582	15%	7
Storage Facilities Expense	12,828	22,636	21%	15,964
Cathodic Protection	1,663	1,830	17%	3,702
Maint of Valves/Regulators	15,651	44,225	29%	69,707
Maint of Mains	10,301	58,965	35%	58,549
Leak Detection - Mains	2,067	9,240	38%	10,814
Backflow Prevention Program	28,374	106,812	45%	67,202
Maint of Copper Services	22,011	48,897	36%	80,549
Maint of PB Service Lines	51,317	123,546	29%	145,957
Single Service Installations	9,046	6,920	9%	10,545
Maint of Meters	15,758	29,425	27%	38,964
Detector Check Assembly Maint	34	20,905	25%	42,134
Maint of Hydrants	5,814	6,718	9%	11,900
GASB68 Adjustment (Pension)	0	0	0%	0
TRANSMISSION & DISTRIBUTION	\$325,122	\$889,042	24%	\$960,598

NOVATO WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
CONSUMER ACCOUNTING				
Meter Reading	\$2,098	\$6,096	23%	\$4,832
Collection Expense - Labor	285	2,573	11%	0
Collection Expense - Agency	37	47	2%	246
Billing & Consumer Accounting	11,239	37,875	25%	35,490
Contract Billing	1,380	4,099	27%	4,099
Stationery, Supplies & Postage	5,702	18,601	31%	16,297
Online Payment Processing Fees	6,430	19,308	32%	15,092
Lock Box Service	912	2,736	25%	2,736
Uncollectable Accounts	2,694	5,346	53%	4,607
Office Equipment Expense	1,060	2,045	3%	3,175
Distributed to West Marin (4.1%)	(1,133)	(3,603)	23%	(3,269)
GASB68 Adjustment (Pension)	0	0	0%	0
CONSUMER ACCOUNTING	\$30,702	\$95,123	20%	\$83,305
WATER CONSERVATION				
Residential	\$28,357	\$77,913	29%	\$73,646
Commercial	147	881	18%	567
Public Outreach/Information	3,635	22,662	20%	40,540
Large Landscape	192	1,124	11%	3,067
GASB68 Adjustment (Pension)	0	0	0%	0
TOTAL WATER CONSERVATION	\$32,331	\$102,580	23%	\$117,821
GENERAL AND ADMINISTRATIVE				
Directors Fees	\$3,342	\$8,355	18%	\$10,705
Legal Fees	0	1,170	4%	\$5,297
Human Resources	12,275	34,589	18%	32,420
Auditing Fees	0	6,424	26%	6,208
Consulting Services/Studies	9,302	20,352	6%	18,846
General Office Salaries	111,216	349,128	28%	320,594
Safety: General District Wide	3,531	9,200	20%	6,886
Office Supplies	1,315	7,156	20%	3,957
Employee Events	0	272	2%	0
Other Administrative Expense	118	1,344	12%	1,154
Election Cost	0	0	0%	0
Dues & Subscriptions	1,045	38,246	39%	90,994
Vehicle Expense	676	2,028	25%	2,028
Meetings, Conferences & Training	12,067	24,483	16%	16,999
Recruitment Expense	0	1,035	52%	564
Gas & Electricity	524	3,504	9%	11,104
Telephone	1,761	4,564	29%	2,801
Water	0	333	17%	350
Buildings & Grounds Maint	11,435	28,560	89%	14,674
Office Equipment Expense	14,897	60,494	47%	45,998
Insurance Premiums & Claims	50,479	78,443	40%	37,286
Retiree Medical Benefits	17,779	52,053	24%	50,015
(Gain)/Loss on Overhead Charges	(5,773)	(4,100)	-3%	5,085
G&A Applied to Other Operations (5.9%)	(16,801)	(53,400)	32%	(47,542)
G&A Applied to Construction	(23,715)	(88,405)	24%	(82,140)
GASB68 Adjustment (Pension)	104,548	394,913	85%	382,688
GENERAL & ADMINISTRATIVE	\$310,022	\$980,740	33%	\$936,973
Depreciation (Note 5)	287,778	864,324	29%	715,280
TOTAL OPERATING EXPENSE	\$1,826,405	\$5,618,241	28%	\$5,470,792
OPERATING INCOME/(LOSS)	\$353,995	\$1,067,638	55%	\$490,871

NOVATO WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
NON-OPERATING REVENUE				
Interest:				
General Funds	(\$86,850)	\$4,714	2%	\$14,435
Retiree Medical Insurance Fund	29,819	29,819	331%	22,528
Interest Revenue-Leases	308	9,882		0
Worker's Comp Fund	139	139		2,442
Admin Bldg/CIP Project Fund	116,288	116,288		0
Aqueduct Energy Efficiency Proj Fund	0	0	0%	0
Funds Held in County Treasury	0	9,721	49%	(5,419)
Total Interest Revenue	\$59,704	\$222,941	80%	\$33,986
Rents & Leases	4,199	35,049	44%	38,587
Other Non-Operating Revenue	1,405	1,731	3%	27,200
Gain/(Loss) on MV of Investments	(32,314)	259,550	-	(22,797)
NON-OPERATING REVENUE	\$32,994	\$519,271	125%	\$76,977
NON-OPERATING EXPENSE				
Bank of Marin AEEP Loan Interest Exp	\$9,776	\$31,618	25%	\$35,588
STP SRF Loan Interest Expense	13,771	41,313	27%	45,570
JP Morgan/Chase AMI Loan Interest Expense	7,969	23,907	25%	25,757
Webster Bank Loan Interest Expense	78,326	130,159	28%	0
Other Non-Operating Expense	(6,345)	14,306	4%	1,009
NON-OPERATING EXPENSE	\$103,496	\$241,304	19%	\$107,924
NET INCOME/(LOSS)	\$283,493	\$1,345,605	123%	\$459,923
BEGINNING FUND EQUITY				
		\$86,510,505		\$89,023,591
NET INCOME/(LOSS)	283,493	1,345,605		459,923
Developer 'In-Kind' Contributions	20,965	108,187	-	172,193
Caltrans AEEP Capital Contribution	0	0	-	8,145
MMWD AEEP Capital Contribution	0	0	0%	205,320
Connection Fees	0	10,000	1%	763,180
FRC Transfer to/from Recycled Water	(116,129)	(216,362)	24%	(216,362)
Prior Period Adjustment (Note 12)	0	0	-	0
ENDING FUND EQUITY		\$87,757,936		\$90,415,991

**NOVATO RECYCLED WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
OPERATING REVENUE				
Recycled Water Sales	\$194,115	\$743,553	43%	\$864,021
Bimonthly Service Charges	10,691	33,756	27%	32,470
Water Loads	760	4,310	29%	2,730
TOTAL OPERATING REVENUE	\$205,566	\$781,619	41%	\$899,221
OPERATING EXPENSE				
SOURCE OF SUPPLY				
Supervision & Engineering	\$212	\$212	-	\$0
Purchased Water - NSD	31,035	127,519	47%	143,553
Purchased Water - LGVSD	11,423	38,927	35%	37,368
SOURCE OF SUPPLY	\$42,670	\$166,658	44%	\$180,921
PUMPING				
Maint of Structures & Grounds	\$0	\$0	0%	\$0
Maint of Pumping Equipment	0	0	0%	0
Electric Power	436	1,273	42%	1,484
GASB68 Adjustment (Pension)	0	0	0%	0
PUMPING	\$436	\$1,273	18%	\$1,484
OPERATIONS				
Supervision & Engineering	\$936	\$2,679	20%	\$2,997
Operating Expense - Operations	213	213	2%	0
Potable Water Consumed	0	1,319	3%	14,607
Maintenance Expense	0	3,604	43%	0
Telemetry Equipment/Controls Maint	0	0	0%	0
GASB68 Adjustment (Pension)	0	0	0%	0
OPERATIONS	\$1,149	\$7,816	8%	\$17,604
WATER TREATMENT				
Purification Chemicals	\$0	\$0	0%	\$1,073
Maint of Purification Equipment	0	0	0%	532
Electric Power	0	0	0%	2,622
Water Quality Programs	0	0	-	108
Laboratory Direct Labor	0	44	1%	0
Customer Water Quality	0	0	0%	0
Lab Expense Distributed from Novato	(1)	27	-	0
GASB68 Adjustment (Pension)	0	0	0%	0
WATER TREATMENT	(\$1)	\$70	0%	\$4,334
TRANSMISSION & DISTRIBUTION				
Supervision & Engineering	\$662	\$1,035	20%	(\$375)
Maps & Records	0	0	0%	0
Operation of T&D System	0	0	0%	0
Facilities Location	0	0	0%	14
Cathodic Protection	0	0	0%	0
Customer Service Expense	3,032	11,092	83%	11,471
Storage Facilities Expense	24	75	2%	338
Maint of Valves/Regulators	0	0	0%	0
Backflow Prevention Program	0	0	0%	0
Single Service Installations	0	17,527	-	0
Hydrant Maint & Operations	0	0	0%	0
Maint of Meters	0	0	0%	0
Maint of Mains	334	334	5%	188
GASB68 Adjustment (Pension)	0	0	0%	0
TRANSMISSION & DISTRIBUTION	\$4,052	\$30,062	41%	\$11,636

**NOVATO RECYCLED WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
CONSUMER ACCOUNTING				
Distributed from Novato (0.2%)	\$115	\$364	18%	\$328
CONSUMER ACCOUNTING	\$115	\$364	18%	\$328
GENERAL AND ADMINISTRATIVE				
Meetings, Conferences & Training	\$0	\$0	-	\$0
Legal Fees	0	0	0%	0
Dues & Subscriptions	0	0	0%	0
Consulting Services/Studies	1,150	1,610	-	12,342
Distributed from Novato (2.4%)	7,053	22,417	25%	21,357
GASB68 Adjustment	1,582	5,471	-	2,471
GENERAL & ADMINISTRATIVE	\$9,785	\$29,498	28%	\$36,170
Depreciation (Note 5)	65,709	197,128	25%	191,161
TOTAL OPERATING EXPENSE	\$123,916	\$432,868	29%	\$443,639
OPERATING INCOME/(LOSS)	\$81,650	\$348,751	89%	\$455,582
NON-OPERATING REVENUE				
Interest:				
General Funds	\$16,958	\$16,958	339%	\$475
RWF Replacement Fund	0	0	\$0	8,922
Self-Insured Workers' Comp Fund	4	4	-	39
StoneTree RWF Loan	910	2,737	27%	2,831
Total Interest Revenue	\$17,872	\$19,698	49%	\$12,267
Other Non-Operating Revenue	0	0	-	0
NON-OPERATING REVENUE	\$17,872	\$19,698	49%	\$12,267
NON-OPERATING EXPENSE				
RWF SRF Loan Interest Expense	\$2,547	\$7,642	25%	\$9,157
Expansion SRF Loan Interest Expense	16,785	50,354	25%	53,370
Capital Contribution Expense-NSD&LGVSD	0	0	0%	0
NON-OPERATING EXPENSE	\$19,332	\$57,996	7%	\$62,528
NET INCOME/(LOSS)	\$80,190	\$310,453	(80%)	\$405,321
BEGINNING FUND EQUITY				
NET INCOME/(LOSS)	80,190	310,453		405,321
Developer 'In-Kind' Contributions	0	0	-	0
FRC Transfer to/from Novato	116,129	216,362	24%	216,362
ENDING FUND EQUITY		\$25,132,382		\$24,254,486

**WEST MARIN WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
OPERATING REVENUE				
Water Sales	\$141,383	\$266,029	32%	\$236,919
Bill Adjustments	(802)	(2,790)	11%	(1,016)
Bimonthly Service Charges	21,030	60,296	24%	55,911
Account Turn-on Charges	0	470	47%	0
New Account Charges	0	25	-	20
Backflow Service Charges	16	1,292	18%	1,197
TOTAL OPERATING REVENUE	\$161,627	\$325,322	30%	\$293,031
OPERATING EXPENSE				
SOURCE OF SUPPLY				
Supervision & Engineering	\$244	\$836	12%	\$1,611
Operating Expense	42	74	1%	77
Maint of Structures	0	8,770	97%	8,040
Water Quality Surveillance	0	0	0%	0
GASB68 Adjustment (Pension)	0	0	0%	0
SOURCE OF SUPPLY	\$286	\$9,680	36%	\$9,728
PUMPING				
Maint of Structures and Grounds	\$0	\$0	0%	\$3,286
Maint of Pumping Equip	1,555	1,611	10%	2,729
Electric Power	3,832	11,849	26%	11,708
GASB68 Adjustment (Pension)	0	0	0%	0
PUMPING	\$5,387	\$13,460	18%	\$17,724
OPERATIONS				
Supervision & Engineering	\$1,401	\$6,583	33%	\$4,862
Operating Expense	1,884	5,868	29%	3,711
Maintenance Expense	0	0	0%	75
Maint of Telemetry Lines	0	0	0%	0
Maint of Telemetry Equipment	917	1,549	12%	1,056
Leased Lines	374	1,040	21%	1,051
GASB68 Adjustment (Pension)	0	0	0%	0
OPERATIONS	\$4,577	\$15,039	18%	\$10,754
WATER TREATMENT				
Supervision & Engineering	\$993	\$3,492	31%	\$4,827
Operating Expense	2,939	7,330	16%	9,968
Purification Chemicals	0	447	9%	294
Maint of Structures & Grounds	0	730	17%	84
Maint of Purification Equipment	31	231	1%	3,071
Electric Power	2,684	7,892	33%	8,614
Laboratory Direct Labor	5,345	15,702	32%	14,985
Laboratory Services	1,185	1,365	14%	2,405
Water Quality Supervision	2,240	4,248	24%	1,944
Customer Water Quality	498	3,620	18%	5,262
Lab Expense Distributed from Novato	3,049	9,562	-	6,672
GASB68 Adjustment (Pension)	0	0	0%	0
WATER TREATMENT	\$18,964	\$54,619	21%	\$58,125

**WEST MARIN WATER
 DETAIL INCOME STATEMENT
 FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
TRANSMISSION & DISTRIBUTION				
Supervision & Engineering	\$1,349	\$3,891	26%	\$413
Maps & Records	0	0	0%	0
Facilities Location - USA	0	0	0%	2,695
Customer Service Expense	0	917	13%	2,648
Storage Facilities Expense	5,130	9,683	26%	5,291
Cathodic Protection	0	0	0%	0
Maint of Valves	0	0	0%	0
Maint of Mains	0	2,759	32%	8,617
Water Quality Maintenance	0	0	0%	12
Maint of Backflow Devices	0	0	0%	0
Backflow Dev Inspection/Survey	3,340	3,548	55%	707
Maint of Copper Services	0	882	35%	992
Maint of PB Service Lines	24,843	32,695	122%	2,316
Maint of Meters	258	321	8%	92
Detector Check Assembly Maint	0	0	0%	0
Maint of Hydrants	0	0	0%	2,986
Single Service Installation	0	0	0%	(902)
GASB68 Adjustment (Pension)	0	0	0%	0
TRANSMISSION & DISTRIBUTION	\$34,920	\$54,696	34%	\$25,867
CONSUMER ACCOUNTING				
Meter Reading	\$0	\$1,813	17%	\$1,700
Collection Expense - Labor	0	148	30%	0
Uncollectable Accounts	0	0	0%	0
Distributed from Novato (3.6%)	933	2,962	23%	\$2,679
GASB68 Adjustment (Pension)	0	0	0%	0
CONSUMER ACCOUNTING	\$933	\$4,923	18%	\$4,379
WATER CONSERVATION				
Water Conservation Program	\$589	\$1,617	11%	\$5,908
TOTAL WATER CONSERVATION	\$589	\$1,617	11%	\$5,908
GENERAL AND ADMINISTRATIVE				
Legal Fees	\$0	\$0	0%	\$1,498
Consulting Services/Studies	3,888	4,757	14%	0
Distributed from Novato (3.6%)	7,514	23,882	37%	19,503
GASB68 Adjustment (Pension)	4,877	19,964	-	16,779
GENERAL & ADMINISTRATIVE	\$16,279	\$48,603	47%	\$37,779
Depreciation (Note 5)	21,625	69,881	30%	50,287
TOTAL OPERATING EXPENSE	\$103,560	\$272,517	28%	\$220,551
OPERATING INCOME/(LOSS)	\$58,067	\$52,804	54%	\$72,481

**WEST MARIN WATER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	<u>SEPT 2022</u>	<u>YEAR TO DATE ACTUAL</u>	<u>YTD/ BUDGET%</u>	<u>PRIOR YTD ACTUAL</u>
NON-OPERATING REVENUE				
Interest - General Funds	\$2,111	\$2,111	30%	\$0
Interest - Self-Insured WC Fund	5	5	-	81
Interest - Bank of Marin Project Fund	0	0	0%	0
Rents & Leases	0	0	0%	0
Tax Proceeds - PR-2 Tax Allocation	2	0	0%	40
Other Non-Operating Revenue	16	16	-	0
NON-OPERATING REVENUE	<u>\$2,134</u>	<u>\$2,132</u>	3%	<u>\$121</u>
NON-OPERATING EXPENSE				
Bank of Marin Loan Interest Expense	\$1,435	\$4,641	24%	\$5,224
Other Non-Operating Expense	0	0	0%	44
NON-OPERATING EXPENSE	<u>\$1,435</u>	<u>\$4,641</u>	11%	<u>\$5,268</u>
NET INCOME/(LOSS)	<u>\$58,766</u>	<u>\$50,295</u>	39%	<u>\$67,334</u>
BEGINNING FUND EQUITY				
NET INCOME/(LOSS)	58,766	50,295		67,334
CONTRIBUTED CAPITAL				
New Gallagher Well #2 Grant	0	0	-	0
Developer 'In-Kind' Contributions	13,787	47,358	-	3,659
Connection Fees	0	0	-	30,800
ENDING FUND EQUITY		<u>\$7,497,373</u>		<u>\$7,438,991</u>

**OCEANA MARIN SEWER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
OPERATING REVENUE				
Sewer Service Charges	\$25,380	\$76,140	25%	\$72,615
TOTAL OPERATING REVENUE	\$25,380	\$76,140	25%	\$72,615
OPERATING EXPENSE				
SEWAGE COLLECTION				
Supervision & Engineering	\$3,653	\$6,470	15%	\$2,580
Inspection	0	0	0%	0
Maps & Records	0	0	0%	0
Operating Expense	85	245	1%	5,413
Facilities Location	0	0	0%	512
Maint of Telemetry Equipment	23	65	7%	60
Maint of Lift Stations	336	336	4%	5,977
Maint of Manholes	0	0	0%	0
Maint of Sewer Mains	2,382	2,382	40%	0
Electric Power	1,914	5,421	34%	7,860
GASB68 Adjustment (Pension)	0	0	0%	0
SEWAGE COLLECTION	\$8,394	\$14,919	14%	\$22,403
SEWAGE TREATMENT				
Supervision & Engineering	\$0	\$0	-	\$0
Operating Expense	834	4,474	28%	913
Maint of Structures	0	0	0%	0
Maint of Equipment	0	0	0%	0
Laboratory Direct Labor	0	270	-	1,769
Lab Expense Distributed from Novato	(5)	164	3%	788
Electric Power	1,255	3,895	32%	3,677
SEWAGE TREATMENT	\$2,084	\$8,803	20%	\$7,146
SEWAGE DISPOSAL				
Operating Expense	\$1,041	\$1,655	14%	\$4,027
Maint of Pump Stations	535	717	7%	1,816
Maint of Storage Ponds	0	0	0%	8,250
Maint of Irrigation Field	1,639	3,408	44%	873
GASB68 Adjustment (Pension)	0	0	0%	0
SEWAGE DISPOSAL	\$3,215	\$5,780	13%	\$14,967
CONSUMER ACCOUNTING				
Distributed from Novato (0.6%)	85	\$277	14%	262
CONSUMER ACCOUNTING	\$85	\$277	14%	\$262

**OCEANA MARIN SEWER
DETAIL INCOME STATEMENT
FOR THE PERIOD ENDING SEPTEMBER 30, 2022**

	SEPT 2022	YEAR TO DATE ACTUAL	YTD/ BUDGET%	PRIOR YTD ACTUAL
GENERAL AND ADMINISTRATIVE				
Consulting Services/Studies	\$0	\$678	-	\$0
Distributed from Novato (1.1%)	2,234	7,101	30%	6,682
Liability Insurance	210	631	32%	551
GASB68 Adjustment	1,548	5,421	-	4,004
GENERAL AND ADMINISTRATIVE	\$3,992	\$13,830	53%	\$11,238
Depreciation (Note 5)	3,895	11,686	25%	11,488
TOTAL OPERATING EXPENSE	\$21,666	\$55,294	20%	\$67,503
OPERATING INCOME/(LOSS)	\$3,714	\$20,846	58%	\$5,112
NON-OPERATING REVENUE				
Rents & Leases	\$0	\$250	-	\$0
Interest - General Funds	2,511	2,511	63%	1,557
Interest - Self Insured WC Fund	2	2	-	29
Tax Proceeds - OM-1/OM-3 Tax Alloc	(28)	0	0%	73
Other Non-Operating Revenue	0	0	-	0
NON-OPERATING REVENUE	\$2,485	\$2,763	4%	\$1,659
NON-OPERATING EXPENSE				
Other Non-Operating Expense	9	9	1%	77
NON-OPERATING EXPENSE	\$9	\$9	1%	\$77
NET INCOME/(LOSS)	\$6,191	\$23,600	23%	\$6,694
BEGINNING FUND EQUITY				
NET INCOME/(LOSS)	6,191	23,600		6,694
CONTRIBUTED CAPITAL				
Contribution in Aid of Construction	0	0	-	0
Connection Fees	0	0	0%	0
FEMA/CAL OES Grant-OM Treatment Pond	0	0		0
PRIOR YEAR ADJUSTMENTS (Note 11d)	0	0		0
ENDING FUND EQUITY		\$1,764,384		\$1,697,265

**NORTH MARIN WATER DISTRICT
EQUIPMENT EXPENDITURES
PERIOD ENDING SEPTEMBER 30, 2022**

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	SEPTEMBER 2022	FYTD TOTAL	FY 22/23 BUDGET	(OVER) UNDER	Notes
1 OPERATIONS/MAINTENANCE					
a. Meter Maintenance Program	\$127,065	\$127,065	\$150,000	\$22,935	
b. Total Organic Carbon (TOC) Analyzer	0	0	42,000	42,000	
	<u>\$127,065</u>	<u>\$127,065</u>	<u>\$192,000</u>	<u>\$64,935</u>	
2 ENGINEERING					
a. GPS Unit (Surveying)	\$0	\$0	\$40,000	\$40,000	
	<u>\$0</u>	<u>\$0</u>	<u>\$40,000</u>	<u>\$40,000</u>	
3 VEHICLE & ROLLING EQUIPMENT EXPENDITURES					
a. STP Forklift (5,000 Lbs)	\$0	\$0	\$60,000	\$60,000	
b. 100KW Portable Generator	0	0	60,000	60,000	
c. Leased Vehicles	67,785	67,785	205,000	137,215	
	<u>\$67,785</u>	<u>\$67,785</u>	<u>\$325,000</u>	<u>\$257,215</u>	
TOTAL EQUIPMENT EXPENDITURES	<u>\$194,850</u>	<u>\$194,850</u>	<u>\$557,000</u>	<u>\$362,150</u>	

**NORTH MARIN WATER DISTRICT
VEHICLE FLEET ANALYSIS
FOR PERIOD ENDING SEPTEMBER 30, 2022**

Fiscal Year to Date

Vehicle Cost per Mile

Year	Description	Veh#	Assigned	Mileage	Expense ¹	Recovery ²	Gain/(Loss)	Mileage	Life to Date	FYTD23	FYTD22
1	2002 Chev K1500 4x4	47	Construction	0	\$308	\$0	(\$308)	155,294	\$0.40	\$0.00	\$1.28
2	2003 Dodge Dakota 4x4	49	Auctioned FY23	0	\$39	\$0	(\$39)	128,037	\$0.44	\$0.00	\$1.90
3	2008 Ford F250 4x4	506	Pool	0	\$3,233	\$35	(\$3,198)	80,413	\$0.84	\$0.00	\$0.23
4	2008 Chev Colorado 4x4	509	Construction	992	\$793	\$0	(\$793)	120,550	\$0.38	\$0.80	\$1.87
5	2010 Ford F150 4x4	511	Maintenance	2,739	\$514	\$203	(\$311)	106,870	\$0.51	\$0.19	\$3.61
6	2010 Ford F150	512	Davenport	1,226	\$3,142	\$1,092	(\$2,050)	135,796	\$0.51	\$2.56	\$1.21
7	2010 Ford F150	513	Construction	591	\$286	\$651	\$365	94,756	\$0.47	\$0.48	\$0.12
8	2012 Ford F250	515	Moniz	3,601	\$2,519	\$3,661	\$1,142	91,224	\$0.64	\$0.70	\$2.83
9	2012 Ford F250	516	Pearce	3,787	\$2,474	\$4,200	\$1,726	102,786	\$0.59	\$0.65	\$1.14
10	2014 Ford F150	517	Kurfirst	1,491	\$666	\$3,038	\$2,372	28,538	\$0.64	\$0.45	\$0.22
11	2015 Ford F250 4x4	518	Maintenance	1,152	\$927	\$1,055	\$128	106,773	\$0.45	\$0.80	\$0.47
12	2015 Ford Escape 4X4	520	Ladd	4,825	\$497	\$518	\$21	119,270	\$0.30	\$0.10	\$1.82
13	2015 Ford F150 4X4	521	Watkins/Shop	1,377	\$566	\$581	\$15	58,900	\$0.37	\$0.41	\$0.26
14	2016 Nissan Frontier	522	Roberto	2,969	\$1,193	\$0	(\$1,193)	56,538	\$0.39	\$0.40	\$0.21
15	2017 Ford Escape 4X4	523	Lab	719	\$413	\$361	(\$52)	37,054	\$0.34	\$0.57	\$1.92
16	2016 Nissan Frontier	524	Bynum	7,497	\$2,042	\$1,810	(\$232)	54,352	\$0.51	\$0.27	\$1.20
17	2018 Ford Cargo Van	526	On-Call	3,305	\$2,944	\$824	(\$2,121)	41,867	\$0.50	\$0.89	\$0.79
18	2018 Dodge Ram 2500	527	Breit	5,062	\$3,795	\$4,888	\$1,093	45,671	\$0.65	\$0.75	\$0.67
19	2019 Chev Colorado 4x4	528	Stompe	1,183	\$1,781	\$798	(\$983)	18,820	\$0.55	\$1.51	\$0.17
20	2019 NISSAN ROGUE	531	Eng/Wtr Consv	0	\$120	\$410	\$289	17,242	\$0.33	\$0.00	\$0.33
21	2019 NISSAN FRONTIER	533	Castellucci	2,755	\$1,024	\$2,317	\$1,293	28,509	\$0.38	\$0.37	\$0.39
22	2019 FORD F-150 2WD	534	Reed	1,478	\$727	\$2,324	\$1,597	7,006	\$0.56	\$0.49	\$0.17
23	2019 FORD F-150 4x4	535	STP	1,370	\$420	\$392	(\$28)	23,217	\$0.30	\$0.31	\$0.56
24	2020 CHEVROLET COLORADO 2WD	536	Lawrence	4,352	\$1,453	\$840	(\$613)	25,152	\$0.37	\$0.33	\$0.53
25	2020 FORD F250 4X4	537	Kehoe, Chris	3,922	\$1,836	\$3,381	\$1,545	34,384	\$0.51	\$0.47	\$0.85
26	2020 FORD F250 4X4	538	STP	536	\$215	\$168	(\$47)	9,857	\$0.54	\$0.40	\$0.16
27	2020 FORD F150 2WD	539	Construction	2,012	\$1,210	\$1,183	(\$27)	8,549	\$0.38	\$0.60	\$0.32
28	2020 FORD F150 2WD	540	Bergstrom	3,345	\$910	\$1,803	\$893	19,705	\$0.33	\$0.27	\$0.78
29	2021 NISSAN ROGUE	541	Clark	5,533	\$4,110	\$870	(\$3,240)	15,051	\$0.27	\$0.74	\$0.36
30	2021 NISSAN FRONTIER	542	STP	2,859	\$4,195	\$4,947	\$752	11,331	\$0.37	\$1.47	\$0.29
31	2021 Ford Ranger 4x4	543	LeBrun	2,850	\$4,587	\$8,179	\$3,593	16,827	\$0.27	\$1.61	\$0.41
32	2020 FORD F150	544	Grisso	291	\$375	\$1,519	\$1,144	291	\$1.29	\$1.29	\$0.00
33	2021 FORD F150	545	Kane	470	\$602	\$336	(\$266)	1,780	\$0.34	\$1.28	\$1.37
34	2021 FORD F150 4x4	546	Engineering	2,484	\$1,733	\$2,961	\$1,228	5,887	\$0.29	\$0.70	\$3.40
35	2022 CHEVY BOLT EUV	548	LAB	921	\$197	\$359	\$161	921	\$0.21	\$0.21	\$0.00
36	2023 CHEVY BOLT EUV	549	LeBrun	0	\$77	\$63	(\$14)	0	\$0.00	\$0.00	\$0.00
Total 3/4 Ton & Under				77,694	\$51,921	\$55,764	\$3,843	1,808,297	\$0.47	\$0.67	\$0.56
1	1999 Ford F350 W/Svc Body	19	Pool	0	\$106	\$112	\$6	139,980	\$0.00	\$0.00	\$0.25
2	2002 Int'l 5 Yd Dump	44	Construction	103	(\$182)	\$0	\$182	117,030	\$1.70	(\$1.76)	\$3.78
3	2006 Int'l 4300 Crew	503	Construction/Crew	380	\$799	\$8,022	\$7,223	55,652	\$2.44	\$2.10	\$1.76
4	2009 Peterbilt 325 Crew	508	Construction/Crew	1,516	\$983	\$6,076	\$5,093	47,594	\$1.90	\$0.65	\$2.08
5	2012 Int'l 5 Yd Dump	514	Construction	1,950	\$3,894	\$4,578	\$684	55,317	\$1.30	\$2.00	\$3.29
6	2015 Int'l 5 Yd Dump	519	Sjoblom	2,307	\$4,788	\$4,340	\$2,438	57,056	\$0.71	\$2.08	\$0.59
7	2017 Ford F350 4x4	525	Lemos	2,694	\$2,097	\$4,977	\$2,880	51,215	\$0.52	\$0.78	\$2.26
8	2019 FORD F550 3 YD DUMP	530	Construction	759	\$1,272	\$3,710	\$2,438	11,349	\$0.71	\$1.68	\$0.59
9	2021 Int'l 5 Yd Dump	547	Breit	1,018	\$5,023	\$63	(\$4,960)	2,532	\$0.03	\$4.93	\$3.55
Total 1 Ton & Over				10,727	\$18,781	\$31,878	\$15,983	537,725	\$1.32	\$1.75	\$2.79

¹ Expense amount shown excludes depreciation (approximately \$195,000 for FY23).

² Recovery is the amount charged to projects and operations to recover the expense of owning and operating the vehicle. Commencing 7/1/17 the recovery rate for vehicles 3/4-ton and under is \$7/hr and the recovery rate for vehicles 1-ton and over is \$14/hr. An additional 50% is charged to developer projects to reflect the fair market value of the vehicle being used.

**NORTH MARIN WATER DISTRICT
WATER CONSERVATION PROGRAM DETAIL
PERIOD ENDING SEPTEMBER 30, 2022**

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Description		COST THRU JUNE 2022	SEPTEMBER 2022	FYTD TOTAL	FY 22/23 BUDGET	(OVER) UNDER	TOTAL COST		
NOVATO									
a. Residential									
1-7700-01	1-7700-26	1	Cash for Grass	\$513,533	\$4,529	\$16,695	\$60,000	\$43,305	\$530,228
1-7700-02	1-7700-27	2	Landscape Efficiency Rebates	32,897	540	2,305	6,000	3,695	35,201
1-7700-03		3	Fixtures Purchases	71,840	0	0	5,000	5,000	71,840
1-7700-06	1-7700-28	4	Washing Machine Rebates	362,244	125	1,446	5,000	3,554	363,690
1-7700-07		5	Demonstration Garden Improvements	55,105	0	0	0	0	55,105
1-7700-11	1-7700-29	6	Toilet Rebate-Residential	1,062,742	795	3,140	25,000	21,860	1,065,882
1-7700-13		8	Residential Audits	492,345	335	3,303	20,000	16,697	495,648
1-7700-15		9	High Efficiency Toilet Distribution	242,197	0	0	0	0	242,197
1-7700-16		10	Water Waste Ordinance Monitoring	133,328	4,075	12,892	30,000	17,109	146,219
1-7700-17	1-7700-31	11	Swimming Pool Cover Rebate	10,747	216	1,372	5,000	3,628	12,118
1-7700-19	1-7700-32	12	ET Controller Rebate	56,235	379	1,316	6,000	4,684	57,551
1-7700-08		13	Administration	1,852,654	16,901	33,194	126,000	92,806	1,885,848
1-7700-20		14	New Development Wtr Cons Program	137,234	442	1,924	10,000	8,076	139,158
1-7700-21	1-7700-33	15	Demand Offset Rebate Program	4,437	21	106	2,000	1,894	4,543
1-7700-23		16	Grant Administration	3,300	0	0	1,000	1,000	3,300
1-7700-24	1-7700-34	17	Hot Water Recirculation Rebate	4,145	0	221	2,000	1,779	4,366
1-7700-25		18	Residential Fill Station	66,442	0	0	0	0	66,442
1-7700-35		19	UWMP	16,733	0	0	0	(0)	16,733
b. Non-Residential Programs									
1-7701-03	1-7701-04	1	Commercial Programs	42,953	147	881	6,295	5,414	43,834
1-7702-01		2	Large Landscape Programs	43,829	(14)	1,124	12,967	11,843	44,953
1-7700-04		c.	Public Outreach/Information	408,279	3,635	22,662	139,739	117,077	430,941
TOTAL NOVATO WATER CONSERVATION				\$5,613,217	\$32,126	\$102,580	\$462,000	\$359,420	\$5,715,797
WEST MARIN WATER									
2-5166-00		a.	Water Conservation Program	\$181,122	\$589	\$1,617	\$14,700	\$13,083	\$182,738
TOTAL WEST MARIN WATER CONSERVATION				\$181,122	\$589	\$1,617	\$14,700	\$13,083	\$182,738

**NORTH MARIN WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS
PERIOD ENDING SEPTEMBER 30, 2022**

Description		COST THRU JUNE 2022	SEPTEMBER 2022	FYTD TOTAL	FY 22/23 BUDGET	(OVER)/UNDER BUDGET	TOTAL COST
1 PIPELINE REPLACEMENTS/ADDITIONS							
a. Main/Pipeline Replacements							
1-7189-xx	1 Replace 12" Pipe S. Novato Blvd (785LF)	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1-7183-xx	2 Replace Plastic thin Walled Pipe < 4-inch	0	0	0	150,000	150,000	0
1-7195-00	3 Novato Blvd Widening Diablo to Grant	65,725	1,326	1,764	1,000,000	998,236	67,489
1-7205-00	4 Copper Replacement-Jamison Ct (6)	16,532	0	22,700	0	(22,700)	39,232
1-7209-00	5 George St Main Replacement	0	1,390	1,390	0	(1,390)	1,390
b. Main/Pipeline Additions							
1-7150-00	1 San Mateo Tank 24" Transmission Main	231,968	876	2,363	20,000	17,637	234,331
1-7206-00	2 Loop Zone Mall Area Near Nave Ct/S. Novato	0	0	0	275,000	275,000	0
1-7204-00	3 Loop Dead End Mains-NMWD Yard	13,663	0	104,198	0	(104,198)	\$117,860
c. PB Service Line Replacements							
1-7139-xx	1 Repl PB in Sync w/City Paving (30 Svcs)	0	0	0	60,000	60,000	0
1-7123-xx	2 Other PB Replacements (40 Svcs)	0	0	0	80,000	80,000	0
d. Relocations to Sync w/City & County CIP							
1-8737-xx	1 Other Relocations	0	0	0	25,000	25,000	0
TOTAL PIPELINE REPLACEMENTS/ADDITIONS		\$327,888	\$3,592	\$132,415	\$1,660,000	\$1,527,585	\$460,303
e. Aqueduct Replacements & Enhancements							
1-7118-02	1 MSN B2-Utility Agreement Costs ¹	\$141,379	\$0	\$0	\$12,000	\$12,000	\$141,379
		\$141,379	\$0	\$0	\$12,000	\$12,000	\$141,379
2 SYSTEM IMPROVEMENTS							
1-7007-16	a. Detector Check Assembly Repair/Repl-FY23 (~8/yr)	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1-7007-15	b. Detector Check Assembly Repair/Repl-FY22 (~8/yr)	36,203	5,418	8,675	0	(8,675)	44,878
1-7090-04	c. Anode Installations-FY23 (150/yr)	264	0	0	10,000	10,000	264
1-7136-00	d. Facilities Security Enhancements	0	0	0	25,000	25,000	0
	e. Other System Improvements	0	0	0	200,000	200,000	0
1-7178-00	f. Asset Management Software Procurement/Implementation	337,596	0	537	0	(537)	338,133
TOTAL SYSTEM IMPROVEMENTS		\$374,063	\$5,418	\$9,212	\$335,000	\$325,788	\$383,274
3 BUILDINGS, YARD, & S.T.P. IMPROVEMENTS							
a. Administration Building							
1-6501-44	1 NMWD Headquarters Upgrade ²	\$1,736,740	\$440,934	\$1,480,100	\$12,650,000	\$11,169,900	\$3,216,840
b. Stafford Treatment Plant							
1-6610-22	1 Repair Sludge Line to Center Road (4" @ 4,400')	0	0	0	25,000	25,000	0
1-6600-xx	2 Other Treatment Plant Improvements	0	0	0	50,000	50,000	0
1-6600-97	3 Efficiency Improvements	0	0	0	50,000	50,000	0
1-6610-23	4 Water Supply Enhancement-STP Modifications	0	0	0	50,000	50,000	0
1-6600-96	5 Leveroni Creek Embankment Repair ³	88,393	0	3,902	0	(3,902)	92,294
1-6610-21	6 STP-Corrosion Assessment	26,553	2,877	12,035	0	(12,035)	38,588
c. Stafford Dam/Watershed							
1-6610-24	1 Water Supply Enhancements-Dam	0	0	515	50,000	49,485	515
TOTAL BUILDING, YARD, & STP IMPROVEMENTS		\$1,851,686	\$443,811	\$1,496,552	\$12,875,000	\$11,378,448	\$3,348,238
4 STORAGE TANKS & PUMP STATIONS							
a. Clear Tank Sites							
1-6207-20	1 Old Ranch Rd Tank Replacement	\$1,539,765	\$8,318	\$226,622	\$100,000	(\$126,622)	\$1,766,387
b. Tank Rehabilitation							
1-6216-20	1 Fire Flow Backfeed Valve-Nunes Tank	0	0	0	200,000	200,000	0
	2 Recoating of Other Tanks	0	0	0	170,000	170,000	0
1-6213-24	3 Lynwood Tank #1 Seismic Upgrade/Coating	0	0	0	500,000	500,000	0
1-6414-20	4 Lynwood Tank #2 Seismic Upgrade/Coating	0	0	0	500,000	500,000	0
c. Pump Station Rehabilitation and Replacement							
1-6141-00	1 Crest PS	286,906	0	12,318	10,000	(2,318)	299,224
1-6112-26	2 Lynwood PS Upgrade	0	2,947	7,540	40,000	32,460	7,540
1-6112-24	3 Lynwood PS Motor Control Center	153,233	0	836	0	(836)	154,069
1-7187-00	4 Mobil Pump Station for Tank Cleaning	15,279	0	3,976	0	(3,976)	19,255
d. Hydropneumatic Systems							
1-7170-00	1 Hydropneumatic Tank Repairs	111,207	11,420	13,374	50,000	36,626	124,580
e. Other Tank & PS Improvements							
	1 Other Tank & PS Improvements	0	0	0	75,000	75,000	0
TOTAL STORAGE TANKS & PUMP STATIONS		\$2,106,389	\$22,685	\$264,667	\$1,645,000	\$1,380,333	\$2,371,056

**NORTH MARIN WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS
PERIOD ENDING SEPTEMBER 30, 2022**

Description	COST THRU JUNE 2022	SEPTEMBER 2022	FYTD TOTAL	FY 22/23 BUDGET	(OVER)/UNDER BUDGET	TOTAL COST
5 RECYCLED WATER						
5-7162-04 1 Replace Cl-Atherton Ave ⁹	\$0	\$0	\$0	\$350,000	\$350,000	\$0
TOTAL RECYCLED WATER	\$0	\$0	\$0	\$350,000	\$350,000	\$0
6 WEST MARIN WATER SYSTEM						
2-6609-20 a. New Gallagher Well #2 ⁴	\$772,056	\$8,820	\$119,095	\$380,000	\$260,905	\$891,152
2-6609-21 b. GW #2-DWR Grant T1-Admin	0	431	2,218	0	(2,218)	2,218
2-6609-22 c. GW #2-DWR Grant T2-Well	21	0	3,597	0	(3,597)	3,618
2-6609-23 d. GW #2-DWR Grant T31-M&P	56,922	14,658	81,219	0	(81,219)	138,141
2-7185-00 e. Gallagher Ranch Streambank Stabilization	724,960	0	0	5,000	5,000	724,960
2-8912-00 f. Lagunitas Bridge Pipeline Replacement	75,768	147	6,049	52,000	45,951	81,817
g. Miscellaneous Water System Improvements ⁵	0	0	0	150,000	150,000	0
2-7192-xx h. Repl PRE 2" Galv Pipe	0	0	0	45,000	45,000	0
2-7192-01 i. Replace PRE 2" Galv Pipe-Balboa/Drakesview/Baywood	5,598	902	1,129	0	(1,129)	6,726
2-7192-02 j. PRE 2" Galvanized Pipe-Sunnyside/Dover/Carlton/Balboa	28	16,232	32,304	0	(32,304)	32,332
2-7203-00 k. Raise Valves for Hwy 1 Paving	9,122	0	0	15,000	15,000	9,122
TOTAL WEST MARIN WATER SYSTEM	\$1,644,475	\$41,191	\$245,611	\$647,000	\$401,389	\$1,890,086
7 OCEANA MARIN SEWER SYSTEM						
8-8672-28 a. Infiltration Repair (Manhole Relining)	\$113,113	\$0	\$0	\$40,000	\$40,000	\$113,113
8-7173-00 b. OM Treatment Pond Rehab-404 Grant-FEMA ⁷	194,628	0	10,251	1,200,000	1,189,749	204,879
8-7173-01 c. OM Treatment Pond Rehab-Grant Management	3,414	295	796	10,000	9,204	4,210
8-7208-xx d. Sewer Force Main Improvements	0	15,590	16,160	125,000	125,000	0
8-7208-01 1 Sewer Force Main Improvements-FM 1A	0	15,590	16,160	0	(16,160)	16,160
TOTAL OCEANA MARIN SEWER SYSTEM	\$311,155	\$15,885	\$27,207	\$1,375,000	\$1,347,793	\$338,361
TOTAL PROJECT EXPENDITURES	\$6,757,034	\$532,582	\$2,175,663	\$18,899,000	\$16,723,337	\$8,932,697
8 LESS FUNDED BY GRANTS, LOANS & REIMBURSEMENTS						
(Accrued)/Deferred						
a. MSN Aqueduct Caltrans Reimb-Segment B2 ¹	(\$45,462)	\$0	\$0	\$0	\$0	(\$45,462)
b. NMWD Headquarters Upgrade ²	18,139,260	(440,934)	(1,480,100)	0	1,480,100	16,659,160
c. Leveroni Creek Embankment Repair ²	0	0	(3,902)	0	3,902	(3,902)
d. New Gallagher Well #2 ⁴	(40,083)	75,264	(35,011)	(340,000)	(304,989)	(75,095)
e. WM Miscellaneous Water System Improvements ³	0	0	0	(150,000)	(150,000)	0
f. Replace Cl-Atherton Ave ⁹	0	(147)	(6,049)	(350,000)	(343,951)	(6,049)
g. OM Treatment Pond Rehab-404 Grant-FEMA ^{8,9}	(61,949)	(0)	(7,688)	(960,000)	(952,312)	(69,637)
FUNDING BY OTHERS (ACCRUED)/DEFERRED	\$17,991,765	(\$365,818)	(\$1,532,750)	(\$1,800,000)	(\$267,250)	\$16,459,015
Received						
a. MSN Aqueduct Caltrans Reimb-Segment B2 ¹	(\$120,684)	\$0	\$0	\$0	\$0	(\$120,684)
b. NMWD Headquarters Upgrade ²	(\$19,876,000)	0	0	0	0	(19,876,000)
c. Leveroni Creek Embankment Repair ²	\$88,393	0	0	0	0	0
d. New Gallagher Well #2 ⁴	(40,083)	(84,084)	(84,084)	(340,000)	(\$255,916)	(124,167)
e. WM Miscellaneous Water System Improvements ³	0	0	0	(150,000)	(150,000)	0
f. Replace Cl-Atherton Ave ⁹	0	0	0	(350,000)	(350,000)	0
g. OM Treatment Pond Rehab-404 Grant-FEMA ^{8,9}	(86,060)	0	0	(960,000)	(960,000)	(86,060)
FUNDING BY OTHERS RECEIVED	(\$20,034,434)	(\$84,084)	(\$84,084)	(\$1,800,000)	(\$22,002,603)	(\$20,206,911)
NET PROJECT EXPENDITURES	\$4,714,365	\$82,681	\$558,829	\$15,299,000	(\$5,546,515)	\$5,184,801

**NORTH MARIN WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS
PERIOD ENDING SEPTEMBER 30, 2022**

Description	COST THRU JUNE 2022	SEPTEMBER 2022	FYTD TOTAL	FY 22/23 BUDGET	(OVER)/UNDER BUDGET	TOTAL COST
CIP SUMMARY-GROSS EXPENDITURES:						
		Current Month	FYTD Total	FY 22/23 Budget	FYTD/ Budget%	
Novato Water Capital Projects		\$475,506	\$1,902,845	\$16,527,000	12%	
Novato Recycled Water Capital Projects		0	0	350,000	0%	
West Marin Water Capital Projects		41,191	245,611	647,000	38%	
Oceana Marin Sewer Capital Projects		15,885	27,207	1,375,000	2%	
Gross Capital Improvement Project Outlays		\$532,582	\$2,175,663	\$18,899,000	12%	
CIP SUMMARY-NET EXPENDITURES:						
		Current Month	FYTD Total	FY 22/23 Budget	FYTD/ Budget%	
Novato Water Capital Projects		\$34,572	\$422,746	\$16,527,000	3%	
Novato Recycled Water Capital Projects		0	0	700,000	0%	
West Marin Water Capital Projects		(42,893)	161,527	157,000	103%	
Oceana Marin Sewer Capital Projects		15,885	27,207	415,000	7%	
Net Capital Improvement Project Outlays		\$7,564	\$611,479	\$17,799,000	3%	

Notes to Capital Improvement Projects Schedule:

- (1) Funding provided 100% by Caltrans.
- (2) \$16.2M NMWD Headquarters Upgrade funded by a 20 year 3.11% bank loan.
- (3) Project developed as part of October 2017 Feasibility Assessment prepared by Prunuske Chatham.
- (4) WM CA DWR Drought Relief Grant.
- (5) Loan from Novato Water-As included in the 2021 WM Water rate study - to be paid with interest. Loan received 6/30/22.
- (6) Funded by Capital Replacement & Expansion Fund.
- (7) OM Treatment Pond Rehab-Project to be funded at 75% by grants. Eligible project costs are budgeted at \$2.2M (75%=\$1.425M)
- (8) Loan from Novato Water-As included in the five-year financial forecast

CONSULTING SERVICES/STUDIES							
	a. Novato Water Master Plan Study	\$0	\$0	\$0	\$175,000	\$175,000	\$0
1-4097-00	b. Novato Connection Fee Study	0	8,931	8,931	20,000	11,070	8,931
	c. Compensation Survey & Review	0	(881)	0	15,000	15,000	0
	d. Lynwood/San Marin Zone 2 Modification Evaluation	0	0	0	30,000	30,000	0
	e. Drought Contingency Plan-NBWRA	0	0	0	9,000	9,000	0
2-4098-00	f. West Marin Connection Fee Study	0	2,760	3,220	10,000	6,780	3,220
2-4089-00	g. Coast Guard Housing-P RTP Study	6,459	1,128	1,537	25,000	23,463	7,996
	h. Stafford Dam Master Plan	0	0	0	25,000	25,000	0
	i. Pipeline Condition Assessment	0	0	0	50,000	50,000	0
1-4050-02	j. Annual Water Supply & Demand Assessment	4,531	0	634	0	(634)	0
1-4057-00	k. Local Water Supply Enhancement Study	271,351	0	1,992	0	(1,992)	273,343
1-4059-01	l. Stafford Lake Water Rights Review	0	0	464	0	(464)	464
1-4077-00	m. Potter Valley Project FERC Relicensing	23,365.50	428	2,356	0	(2,356)	25,721
1-4093-00	n. Gateway Commons Backflow Study	5,993	0	263	0	(263)	6,256
1-6501-43	o. Electronic Document Mgmt System	30,415	825	1,213	0	(1,213)	31,627
5-4099-00	p. Connection Fee Study-RW	0	1,150	1,610	0	(1,610)	1,610
8-4096-00	q. Dillon Beach Wastewater Study	0	0	678	0	(678)	678
	r. GASB 75 (OPEB) Disclosure Information & Actuarial Valuation	0	0	4,500	0	(4,500)	4,500
		\$342,114	\$14,340	\$27,396	\$359,000	\$331,604	\$364,346

North Marin Water District Financial Statement Notes

Note 1 - Restricted Cash

Connection Fee Fund: Cash available from collection of Connection Fees. The fee is charged to developers based upon the estimate of cost necessary to construct capacity to serve the new development. These funds are restricted by law for expansion of the water or sewer facilities within the service area where the development occurs. Funds are disbursed from the Connection Fee Reserve as expenditures are incurred to increase system capacity to serve new development. The fund balance accrues interest quarterly.

Deer Island RWF Replacement Fund: The State Revolving Fund (SRF) loan agreement for construction of the Deer Island RW Facility requires the District to establish and maintain a Water Recycling Capital Reserve Fund (WRCRF) for the expansion, major repair, or replacement of the water recycling facilities. The WRCRF is maintained in compliance with the State Water Resources Control Board's "Policy for Implementing the State Revolving Fund for Construction of Wastewater Treatment Facilities" in effect at the time the agreement was executed, July 2006. NMWD is required to deposit a minimum reserve of 0.5% of the SRF loan amount each year for a period of ten years. The balance in the DICRF is \$215,000 ($\$4.3M \times .5\% \times 10$ years). The fund balance does not accrue interest.

Recycled Water Capital Replacement and Expansion Fund: The 2011 Interagency Agreements for Recycled Water between NSD, LGVSD & NMWD require that any payments to the Distributor (NMWD) by the End User (Consumers) in excess of actual costs (marginal payments) shall be deposited in this fund. Operation and Maintenance Costs are defined as the actual cost of: labor (including general and administrative overhead plus tools and supplies normally applied), equipment and vehicle charges, consumables (such as chemicals and electrical power), and spare parts and/or replaced components necessary to reliably treat and deliver recycled water to the End Users. Operation and Maintenance Costs do not include costs for major capital replacement or process changes. A payment of \$305,711 was made to Novato Sanitary District in December 2019 for the Clearwell Improvement Project. This fund balance does not accrue interest.

Tax Receipts held in Marin County Treasury: Balance of tax proceeds collected and disbursed by the County of Marin. The County credits interest to these funds quarterly.

STP SRF Reserve Fund – Marin County Treasury: The 2004 Stafford Treatment Plant State Revolving Fund (SRF) loan agreement requires the District to build a Reserve Fund equal to one year of payments (\$1,044,474) in the Marin County Treasury during the first ten years of the 20-year repayment period. Every January 1 and July 1, commencing January 1, 2010, the District deposits with the County 10% of the semi-annual SRF payment. This Reserve Fund was fully funded at 6/30/19. The County credits the fund with interest quarterly, which is applied to the semi-annual payments, and will use the Reserve to pay the last 2 semi-annual SRF loan payments.

RWS North/South SRF Reserve Fund: The State Water Resource Control Board Agreements for the seven Clean Water State Revolving Fund Loans made for expansion of the Recycled Water System distribution system require that the District establish a reserve fund equal to one year's debt service (\$614,299) prior to the construction completion date.

RWS Central SRF Reserve Fund: The State Water Resource Control Board Agreement for the Clean Water State Revolving Fund Loan made for expansion of the Recycled Water System distribution system requires that the District establish a reserve fund equal to one year's debt service (\$275,773) prior to the construction completion date.

Note 2 - Designated Cash

Liability Contingency Fund: Established in 1986 when the District first elected to self-insure its general liability risk. This reserve was funded with \$1 million initially and \$200,000 annually thereafter until it reached a balance of \$2 million. In FY98 the West Marin Water System was included in the fund and built-up a proportional reserve of \$74,000 over several years. Commencing FY93, \$1 million of the reserve was made available to fund loans to eligible employees under the District's Employer Assisted Housing Program. In August 2008, \$500,000 was transferred into this reserve from the Self-Insured Workers' Compensation Fund and made available to fund Employer Assisted Housing Program loans. Currently there is \$250,000 in one Employer Assisted Housing Loan outstanding (see Note 3). In March 2005, \$652,400 was expended from the fund to purchase a home at 25 Giacomini Road in Point Reyes Station. The home is currently rented. In 2006, \$8,885 was added from the sale of surplus property in West Marin. The fund balance does not accrue interest.

Workers' Compensation Fund: Commencing July 2019, the District switched from self-insuring its workers' compensation liability to 1st dollar workers' compensation insurance with Zenith Insurance Company. The premium for 1st dollar insurance is higher than staying with the SIR plan, but the risk of \$1M out of pocket costs is eliminated. The Worker's Comp Reserve Fund now stands at \$20,125, the amount of the one remaining claim filed when the District was self-insured, with the balance transferred to Unrestricted Cash.

Retiree Medical Benefits Fund: NMWD pays the cost of health insurance for retirees between the ages of 55 and 65 and spouse under any group plan offered by CalPERS. The retiree must be at least 55 and have a minimum of 12 years (for employees hired on or before September 30, 2018) and a minimum of 20 years (for employees hired after September 30, 2018) of NMWD service at the date of retirement. NMWD's contribution toward the chosen plan is capped in the same manner as all other NMWD employees in the same class. Coverage terminates for the spouse when the spouse becomes eligible for Medicare, or for both the retiree and spouse when the retiree becomes eligible for Medicare. When the retiree or spouse becomes eligible for Medicare, NMWD pays up to the couple annuitant rate, which is capped at \$3,830 per year (\$319/month). In August 2003, NMWD transferred \$2.55 million (\$2.3 million for current retirees plus \$250,000 for future retirees) from unrestricted cash into a reserve to fund this obligation. In 2010 the Board directed staff to add \$1,500 per employee annually as a payroll overhead to accrue and accelerate amortization of this liability. The accrual is maintained as a Long-Term Liability entitled Total OPEB Liability. In 2022 an Actuarial Analysis calculated NMWD's total actuarial liability at \$4.3 million. The Retiree Medical Benefits cash fund earns interest quarterly.

Maintenance Accrual Fund: Established in FY91 to provide a source of maintenance money for replacement of treatment, storage, transmission and distribution facilities as they wear out. The annual contribution from operating reserves was initially \$200,000. Net polybutylene claim settlement proceeds of \$671,060 were closed into the fund in FY93. In FY94 the annual contribution was reduced to \$100,000. Starting in FY21/22, this reserve was increased to \$4.0 million based on the District's planned pay-go capital spending per the 2020 Novato Water Rate Study and subsequent financial plans. Funds are borrowed from the Maintenance Accrual Fund to offset the shortfall in unrestricted Cash & Investments. The fund balance does not accrue interest.

Operating Reserve Fund: This reserve, comprised of four months of budgeted operating expenditures (less depreciation) as recommended by the District's financial advisors, serves to ensure adequate working capital for operating, capital, and unanticipated cash flow needs that arise during the year. Funds are borrowed from the operating Reserve Fund to offset the shortfall in unrestricted Cash & Investments. The fund balance does not accrue interest.

Webster Bank-Admin Bldg/CIP Fund: The District received a \$20 million loan from Webster Bank in May 2022 to fund the Admin Building Renovation and other CIP Projects. The 20-year, 3.11% annual percentage rate loan requires semi-annual payments and will be fully amortized on 3/1/42. The unexpended fund balance accrues interest quarterly.

Note 3 – Employee Loans

Housing Loans: The District's Employer Assisted Housing Program allows up to \$300,000 to be loaned to an employee for a period of up to 15 years for the purchase of a home within the District service territory that will enable the employee to respond rapidly to emergencies affecting the operation of the District. Repayment is due upon sale, termination of employment, or other event as described in the Program. Interest on the loan is contingent upon and directly proportional to the appreciation in value occurring on the purchased property. There is one employee-housing loan currently outstanding totaling \$250,000 dated March 2015.

Note 4 – Other Long Term Receivables

In 2014, the District entered into an interconnection agreement with MMWD for their share of the Aqueduct Energy Efficiency Project. The 2.71% \$3,622,882 loan will have yearly payments due of \$205,320, and the final payment is due in July 2032. In 2015 the District entered into an agreement with Marin Country Club for their share of the pipeline extension to provide recycled water for the Marin Country Club Golf Course. In 2016 the District received a \$6.6 million 30-year 1.0% SRF loan to finance the Recycled Water Central project, and Marin Country Club agreed to pay the District \$1,265,295 in bimonthly payments of \$8,142 at 1.0% over 30 years for their share of the pipeline extension. Marin Country Club also agreed to pay \$430,463 of the District's local share of the project in bimonthly payments of \$8,242 over 10 years at 2.8%, which is the Novato Potable Fund's weighted average cost of debt. The payments will coincide with Marin Country Club's water service payments. Marin Country Club paid the 10 year loan in full in December 2018. The final payment from Marin Country Club for the 30 year loan is due in November 2047. The Marin Country Club also owes the District \$189,402.89 in previously unbilled water receipts due to a recording error in their 6" AMI meter. \$89,990.87 of this amount was paid by Marin Country Club in October 2020 and the remaining balance due of \$99,412.02 will be re-paid in \$2,000 monthly installment payments and will be paid in full March 2025.

Note 5 – Depreciation

Assets are assigned a useful life based on consultations with the District Chief Engineer and a survey of other water agencies. Depreciation is computed on a straight-line basis over the estimated useful life of the various classes of property as follows:

<u>Facility</u>	<u>Life (Years)</u>
Aqueduct.....	150
Dam.....	100
Buildings & Structures.....	40
Mains.....	50
Pumping Equipment.....	25
Water Treatment Equipment.....	20
Storage & Transmission (16"+) Facilities.....	50
Distribution Facilities (includes Pump Stations).....	50
Office, Laboratory, Construction & Shop Tools & Equipment.....	10
Vehicles 1 ton or greater.....	10
All other vehicles.....	5
Sewer Mains.....	40
Sewer Pumps.....	10

Note 6 - Capitalization Policy

The Government Finance Officers Association *Guide for State and Local Governments* recommends that a capitalization policy incorporate a minimum threshold of \$5,000 and an estimated useful life of at least two years. It also cautions that federal grant and loan requirements prevent the use of capitalization thresholds in excess of \$5,000. Thus NMWD's capitalization threshold is \$5,000.

Note 7 – Bond & Loan Servicing Schedule for Fiscal Year 2022-2023

							FY 23		
Service Area	Description	Issue Date	Rate	Original Amount	Payment Due	Final Pmt	Interest Expense	Principal Paid	6/30/23 Outstanding Balance
Novato	SRF Loan - STP	2004	2.39%	\$16,528,850	7/1 & 1/1	07/01/29	\$154,744	\$889,730	\$5,806,043
Novato	Bank Marin Loan	2011	3.42%	\$7,000,000	27 th /mo	10/27/31	\$125,917	\$356,125	\$3,490,933
Novato	Chase Bank Loan	2018	2.69%	\$4,600,000	3/1 & 9/1	03/01/33	\$95,630	\$280,000	\$3,275,000
Novato	Webster Bank	2022	3.11%	\$20,000,000	3/1 & 9/1	03/01/42	\$608,321	\$879,669	\$19,120,331
Novato Total							\$984,612	\$2,405,524	\$31,692,307
RW TP	SRF Loan	2006	2.40%	\$4,302,560	20-Jun	06/19/27	\$30,568	\$242,799	\$1,030,881
RW North	SRF Loans (4)	2013	2.60%	\$4,375,605	Varies	Varies	\$66,092	\$215,800	\$2,326,202
RW South	SRF Loans (3)	2013	2.20%	\$5,361,952	Varies	Varies	\$72,462	\$259,945	\$3,033,761
RW Central	SRF Loan	2016	1.00%	\$7,130,503	19-Dec	12/31/47	\$62,863	\$212,910	\$6,073,389
Recycled Water Total							\$231,985	\$931,454	\$12,464,233
WM Water	Bank Marin Loan	2012	3.42%	\$1,000,000	27 th /mo	10/27/31	\$18,483	\$52,275	\$512,431
West Marin Water Total							\$18,483	\$52,275	\$512,431
FY23 Total							\$1,235,080	\$3,389,253	\$44,668,971

1. In April 2004 the California State Department of Water Resources approved a 2.39% 20-year loan for reconstruction of the Stafford Water Treatment Plant. The project was completed in FY09 with repair of the Outlet Tower Sluice Gate. Interest paid during construction totaled \$1,636,378. The loan covenants require an annual reserve fund contribution of \$104,447 (10% of the annual debt service obligation) be deposited into the Marin County Treasury during each of the first ten years of the repayment period. Debt service is funded 25% by Facility Reserve Charges. The first payment was made in December 2009.
2. In October 2011 Bank of Marin made a 20-year 3.54% (APR) loan of \$8 million to fund the District's share of the Aqueduct Energy Efficiency Project. See Note 15 below, and note to loan 9 above.
3. In March 2018 Chase Bank made a 15-year 2.69% (APR) loan of \$4.6 million to fund the District's Automated Meter Information system Project.
4. In August 2006 the California State Department of Water Resources approved a 2.4% 20-year loan of \$4,264,545 for construction of the Deer Island Recycled Water Facility. With the addition of \$38,015 in Construction Period Interest, the loan principal totaled \$4,302,560. The project was completed in June 2007, and the first payment was made June 19, 2008.
5. In July 2011 the California State Department of Water Resources approved a series of four 2.6% 20-year loans which totaled \$4,375,605 for the Recycled Water North Service Area Expansion Project. The projects were completed on October 31, 2012, and the first payment was made in November of 2012.
6. In March 2012 the California State Department of Water Resources approved a series of three 2.2% 20-year loans totaling \$5,361,952 for the Recycled Water South Service Area Expansion Project. The projects were completed on September 4, 2013, and the first payment was made in December of 2013.

7. In May 2016 the California State Department of Water Resources approved a 1.0% 30-year loan of \$7,130,503 for the Recycled Water Central Service Area Expansion. The project will be completed in December 2017, and the first payment was made December 31, 2018.
8. In June 2012 the Board authorized reallocating \$1 million of the Bank of Marin loan to West Marin Water to repay Novato Water \$223,000 owed for loans to fund Long Range Improvement Projects and the remainder to fund the Solids Handling Facility at the Point Reyes Water Treatment Plant. See note to loan 2 above.
9. In May 2022, Webster Bank made a 20-year 3.11% (APR) loan of \$20 million to fund the Admin Building Renovation and other Capital Improvement Projects.

Note 8 – Unemployment Insurance Reserve

NMWD uses the "Reimbursable Method" of paying for Unemployment Costs. Under this method, the District reimburses the State Employment Development Department for all unemployment benefits paid on our behalf. The reserve is maintained at an amount equal to the higher of the average claim amount paid over the last 5 years or 52 times the maximum weekly benefit amount (currently \$450 x 52 = \$23,400).

Note 9 – Payroll Benefits

Payroll Benefits payable includes payroll taxes; vacation, sick, and holiday leave; Section 125 payments; cancer, long term care and disability insurance premiums; union dues; and employee benefit fund.

Note 10 - Interest Policy on Inter-District Loans

In the event an improvement district expends all of its Undesignated Funds, it shall borrow funds from that improvement district's Board Designated Fund reserves to meet ongoing requirements. In the event an improvement district expends all of its Board Designated Fund reserves, it may receive a loan from the Novato Improvement District in an amount sufficient to meet its ongoing requirements. Restricted Funds shall not be used to finance ongoing normal operating expenses.

No interest shall be paid by an improvement district on funds borrowed from that improvement district's Board Designated Fund reserves. Interest on loans from the Novato Improvement District shall be paid by the recipient district to the Novato district based upon the outstanding loan balance at the close of the previous accounting period. Interest shall be calculated at the higher of: 1. The weighted average interest rate of Novato improvement district debt (2.77% at 6/30/22); or 2. The average interest rate earned on the District treasury since the close of the previous accounting period; plus \$50 per month.

Note 11 – Budget Augmentations

Note 12 – Prior Period Adjustment

Note 13 – Explanation of Financial Statement Components

The District's financial statement is comprised of four components: 1) Statement of Net Position, 2) Sources and Uses of Funds Statement – All Service Areas Combined, 3) Income Statement and Cash Flow by Service Area, and 4) Notes to the Financial Statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

The Statement of Net Position (page 4) reports the District's assets and liabilities and provides information about the nature and amount of investments in resources (assets) and the obligations to the District's creditors (liabilities). The difference between assets and liabilities is reported as *net position*. Over time, increases or decreases in the fund balance may serve as a useful indicator of whether the financial position of the District is improving or deteriorating.

The Sources and Uses of Funds Statement – All Service Areas Combined (page 8) compares fiscal year-to-date performance against the Board approved annual budget – presented in the adopted budget format. This Sources and Uses of Funds Statement varies from the income statement in that it includes capital expenditures, debt principal repayment, connection fee revenue, and cash infusions from debt issuance.

The Income Statement and Cash Flow by Service Area (page 9) presents the net income (loss) for the fiscal year-to-date (FYTD) period for each of the District's four service areas. The income and expenses on this report are presented in conformity with Generally Accepted Accounting Principles (GAAP) and comply with Governmental Accounting Standards Board pronouncements. Accordingly, all income and expenses are reported as soon as the underlying event giving rise to the change occurs, regardless of the timing of related cash flows. This statement measures the success of each service area's operations and can be used to determine whether the service area has successfully recovered all costs through user fees and other charges.

Also included at the bottom of page 9 is a statement of Cash Flow by Service Area. The primary purpose of this statement is to reconcile in an informative manner the difference between the net income/(loss) for period of each service area with the resultant change in cash balance that occurred over the same period.

Notes to the Financial Statements (page 27) provide a summary of significant accounting policies and assumptions and other information of value to the financial statement reader.

Other Supplementary Information includes Detail Income Statements presented in accordance with GAAP for each of the four service areas (pages 10, 14, 16, 19). These statements present income and expenditures in close detail for further analysis. Other supplementary schedules of note include the Vehicle Fleet Analysis (page 22), Equipment Expenditures (page 21) and Capital Improvement Project Expenditures (page 24), which show outlays to date, compared with budget authority.

Note 14 –Connection Fee Transfers from Novato Water To Recycled Water

The following Connection Fee (FRC) reserve amounts have been transferred to the Recycled Water fund:

**Recycled Water
FRC Transfers from Novato**

L:\finance\frd\recycled water frc transfers from novato.xlsx\sheet1

	Expansion Local Share			SRFRWF Expansion				Transfer		
	North	South	Central	NBWRA	Loan	SRF Loan	BPGL Loan Repayment	CIP	Total	Executed
FY07				\$29,725					\$29,725	
FY08				\$50,478	\$22,795				\$73,273	
FY09				\$150,455	\$22,795				\$173,250	
FY10	\$133,659			\$75,198	\$22,795				\$231,652	\$133,659
FY11				\$133,319	\$22,795				\$156,114	\$1,175,098
FY12	\$233,478	\$265,500		\$115,883	\$22,795				\$637,656	(\$7,088)
FY13				\$315,023	\$22,795	\$464,572			\$802,390	\$1,970,400
FY14	\$236,291	\$723,525	\$4,024	\$63,035	\$22,795	\$500,529			\$1,550,200	\$1,550,200
FY15		\$17,563	(\$4,024)	\$38,283	\$22,795	\$614,299			\$688,916	\$688,916
FY16	\$0	\$0	\$66,729	\$102,842	\$22,795	\$614,299			\$806,664	\$806,664
FY17			\$362,524	\$194,636	\$22,795	\$614,299		\$36,687	\$1,230,940	\$1,230,940
FY18			\$5,071,512	\$38,908	\$22,795	\$614,299			\$5,747,513	\$5,747,513
FY19			(\$2,168,755)	\$6,966	\$22,795	\$890,072			(\$1,248,922)	(\$1,248,922)
FY20			\$5,499	\$0	\$0	\$350,287	(\$1,046,471)	\$1,084	(\$689,600)	(\$689,600)
FY21						\$890,072			\$890,072	\$890,072
FY22						\$890,075			\$890,075	\$890,075
FY23						\$216,362			\$216,362	\$216,362
	\$603,428	\$1,006,589	\$3,337,509	\$1,314,751	\$273,539	\$6,659,164	(\$1,046,471)	\$37,771	\$12,186,279	\$12,186,279

12



MEMORANDUM

To: Board of Directors Date: December 6, 2022

From: Tony Williams, General Manager *TW*
Eric Miller, Chief Engineer / Assistant General Manager *EM*

Subject: Comments on Draft Environmental Impact Report for the County of Marin Housing Element Update, October 2022
r:\folders by job no\4000 jobs\4095.00 2022 city and county gp housing element\bod memos\2022 draft eir marin county bod memo.docx

RECOMMENDED ACTION: Information Only

FINANCIAL IMPACT: None

The Marin County Planning Commission and Board of Supervisors held a public hearing on Wednesday, November 16th to provide clarification and receive public comment on the Draft Environmental Impact Report (EIR) prepared for the Housing & Safety Element Update to the 2007 Marin Countywide Plan. District staff has reviewed the County Housing Element Update for the planning period 2023 through 2031, Review Draft dated July 19, 2022, and the accompanying Draft EIR. Staff submitted a comment letter to the County of Marin (Attachment 1) which included ten District comments in regards to the Draft EIR.

In light of the total number of proposed housing units described in the Draft EIR that fall within the Novato Service Area, as well as the total number of units that the City of Novato has provided the District, staff felt it was important to review these total units with the projections used in the 2020 Urban Water Management Plan (UWMP). The District's consultant EKI, who developed the UWMP, was tasked with a review and analysis of these housing numbers and determined that there is a slight increase in potable water demand compared to the projections in the UWMP. Their draft analysis (provided as part of Attachment 1) indicates an approximate 3% increase in potable water demand for the period up to 2045. Currently staff are not overly concerned with this increase but plan to follow the progression of both the County and City housing developments in the coming years.

ATTACHMENTS: 1. Draft Environmental Impact Report - County of Marin Housing Element Update Letter, dated November 10, 2022



999 Rush Creek Place
P.O. Box 146
Novato, CA 94948-0146

PHONE
415-897-4133

EMAIL
info@nmwd.com

WEB
www.nmwd.com

November 10, 2022

Rachel Reid, Environmental Planning Manager
County of Marin, Community Development Agency
3501 Civic Center Drive, Suite 308
San Rafael, CA 94903-4157

Re: Draft Environmental Impact Report
County of Marin Housing Element Update, October 2022
NMWD File: 1 4095.00

Dear Mrs. Reid:

Thank you for the opportunity to comment on the subject Draft EIR. North Marin Water District (NMWD) has reviewed the Draft EIR and the County of Marin Housing Element 2023-2031 review draft dated July 19, 2022. NMWD has the following comments on the Draft EIR:

- 1) Page 2-13, first bullet point within subsection Areas of Known Controversy and Issues to be Resolved: NMWD would like to reiterate the importance of the following statement, *"Water suppliers in the county experience supply deficits during extended drought periods, and the total number of housing units proposed under the Project would increase demands in some areas of the county that already are experiencing supply deficits."*
- 2) Page 4-1, summary table for Environmental Issue Area, *d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the Project Area?*: For NMWD to provide water service to project site no. 16, Atherton Corridor (listed on page 3-18), a storage tank up to 200,000 gallons, 35-foot diameter by 35-foot tall, will need to be installed at elevation 200 feet mean-sea-level. The storage tank would be situated along the Cherry Hill ridge line or Pinheiro ridge line overlooking Rush Creek, Gness Field and Valley Memorial Park. NMWD current practice is to prioritize the use of stainless steel for new tank construction which could lead to glare to the surrounding area.
 - a. Other tank site appurtenances that could have adverse impacts on the scenic vista includes: a ten-foot high antenna installed atop the tank, chain-link fencing surrounding the reservoir, and a paved access road with no more than a 15% grade constructed from the development to the reservoir.
- 3) Page 4-1, summary table for Environmental Issue Area, *d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the Project Area?*: For NMWD to provide water service to project site no. 20, Buck Center Vacant Property (listed on page 3-19), a storage tank up to 400,000 gallons, 45-foot diameter by 35-foot tall, will need to be installed on the eastern slope of Mount Burdell and situated approximately 110 feet higher than the highest development unit. NMWD current practice is to prioritize the use of stainless steel for new tank construction which could lead to glare to the surrounding area.

DIRECTORS: JACK BAKER · RICK FRAITES · JAMES GROSSI · MICHAEL JOLY · STEPHEN PETTERLE

OFFICERS: ANTHONY WILLIAMS, General Manager · TERRIE KEHOE, District Secretary · JULIE BLUE, Auditor-Controller · ERIC MILLER, Asst. GM/Chief Engineer

- a. Other tank site appurtenances that could have adverse impacts on the scenic vista includes: a ten-foot high antenna installed atop the tank, chain-link fencing surrounding the reservoir, and a paved access road with no more than a 15% grade constructed from the development to the reservoir.
- 4) Page 19-1, Section 19.1.1-A. Existing Domestic Water Supply: NMWD suggests the following text changes for improved accuracy:
 - a. *“Marin County’s water supplies include surface water, groundwater, recycled water, and imported water. Surface water is the main source of supply for urban areas in the **central and southeastern** portion of the County, while both groundwater and surface water are the primary sources for rural areas. **The majority of water supply in the northeastern portion of the County (Novato and surrounding areas) is imported water...**”*
 - 5) Page 19-2, fourth paragraph, North Marin Water District: NMWD suggests the following text changes for improved accuracy:
 - a. *“The North Marin Water District (NMWD) serves the City of Novato **including the adjacent unincorporated areas**, and the Point Reyes, Inverness Park, Olema, and Oceana Marin areas of West Marin. In the Novato Service Area NMWD serves a population of approximately 61,655 people and encompasses an area of approximately 75 square miles. In the West Marin Service Area, NMWD serves a population of approximately 1,800 people and encompasses an area of approximately 24 square miles. **NMWD only provides sanitary sewer service to Oceana Marin, while water service in this area is provided by Cal Water and Estero Mutual Water Company.**”*
 - 6) Page 19-3, Figure 19.1 Water Service Districts and Providers: NMWD is inaccurately shown as a water service provider to the Oceana Marin area in the referenced figure. NMWD only provides sanitary sewer service to Oceana Marin, while water service in this area is provided by Cal Water and Estero Mutual Water Company.
 - 7) Page 19-4, third paragraph: Water demand projections from the District’s 2020 Urban Water Management Plan were recently revised to reflect the most current housing site inventories from the City of Novato and Marin County housing element updates. As a result, the projected water demand in NMWD’s Novato service area is 10,564 acre-feet per year (approx. 9.4 MGD) for planning year 2035, which represents a 319 acre-feet per year (+3%) increase from the previous housing inventory potable water demand projections. See Attachment by EKI.
 - a. The College of Marin Educational Master Plan (2019-2025) & Strategic Plan (2019-2022) identify a plan to design and construct an on-campus housing facility project. Potable water demands for this development were not included in the District’s 2020 Urban Water Management Plan. Depending on the size of the project, future dry year supply will be lower than that shown in Table 19-2.
 - b. The potable water demand increase in the Draft EIR is inaccurately shown as 10,463 acre-feet per year when the District’s 2020 Urban Water Management Plan actually indicates a **potable water** demand increase of 10,245 acre-feet per year for planning year 2035.

- 8) Page 19-9, Table 19-2 District Capacity for New Development: NMWD would like to emphasize the implications of the results related to the cumulative (Project and Districts' commitments outside of the Project) scenarios which are represented by the middle and right columns in the referenced table. As indicated by negative values for "Remaining Distribution Capacity" (which will worsen after the previous comment is addressed), NMWD **does not** have adequate capacity in "dry years" to serve the new connections proposed for the District's Novato service area in cumulative scenarios.
- 9) Page 19-13, Table 19-4 Infrastructure Needs: North Marin Water District (Preliminary): NMWD generally does not have distribution infrastructure in-place for areas north of the City of Novato limits. New housing development proposed north of this extent will require substantial distribution infrastructure be constructed to allow for water service by NMWD. The "Infrastructure Needs" shown in the referenced table carry approximate costs upwards of several millions of dollars, which may be cost prohibitive for the size of developments being proposed.
- 10) Page 19-52 & 19-53, Impact 19-2b: Project and Cumulative Water Supply Impacts: North Marin Water District and Marin Municipal Water District: It is important to note that much of the proposed project's site inventory in the District's Novato service area is within the existing footprint of our recycled water distribution system, which makes recycled water usage feasible at most of the proposed sites. Consistent with NMWD Regulation 18: Recycled Water Service, when the District determines that recycled water service is feasible, written notification will be provided to the applicant that recycled water use is required to the maximum extent permitted.

If you have any questions, please contact me at 1-415-761-8947 or emiller@nmwd.com.

Sincerely,



Anthony Williams
General Manager



Eric Miller
Assistant General Manager

Attachment: Water Demand and Expansion Analysis by EKI, DRAFT dated October 21, 2022

DRAFT - 21 October 2022

MEMORANDUM

To: Tony Williams, PE, QSD, North Marin Water District

From: C. David Umezaki, PE, EKI Environment & Water, Inc.
Drew Bost, EKI Environment & Water, Inc.

Subject: **Recycled Water Demand and Expansion Analysis**
North Marin Water District, Novato, California
(EKI C00096.01)

At North Marin Water District's (NMWD's) request, EKI has updated water demands from the 2020 Urban Water Management Plan (UWMP; EKI, 2021) and its supporting document, the 2020 Water Demand Analysis and Water Conservation Measure Update (Water Demand Report; EKI, 2020) to reflect new housing site inventories from the City of Novato and Marin County. As you know, the new housing inventories reflect more extensive housing growth than was anticipated at the time of the UWMP and Water Demand Report preparation, and so an update to the water demands was needed in order for them to reflect the increased population growth.

Included in this memorandum are the following tables:

- Updated tables from the Water Demand Report, including:
 - Table 4-1: Population and Employment Growth Projections
 - Table 4-2: Historical and Projected Account Growth Rate by Customer Sector
 - Table 4-3: Change in Number of Accounts Based on Projected Growth, and
 - Table 4-6: Projected Water Demand
- Updated 2020 UWMP Table 4-4: Use for Potable and Non-Potable Water – Projected

APPROACH

EKI's approach to the update was as follows:

- New housing units were summarized from the provided County and City data tables provided to EKI on 12 August 2022.
 - Assessors Parcel Numbers (APNs) associated with each development were cross-referenced with Table 4-5 of the 2018 Water Master Plan (NMWD, 2019) to confirm that projects were not being double-counted and that the number of new units was accurate.
 - For County data, only projects that were highlighted by the District in the transmitted file were included (i.e., a total of 507 units)

- Based on the number of new housing units and an assumption of 2.57 persons per household, a total of 2,904 new units were added to the District's population projections, corresponding to a total population increase of 7,463 people through 2035.
- The revised population growth rate was then applied to the District's residential account projections from the Water Demand Report, which were then used to calculate revised water demand estimates and estimated passive savings using the same methodology that was used in the original Water Demand Report.

RESULTS

As shown in the updated Table 4-6, the total potable water demands for 2045 increased to 10,610 AFY, which represents a 327 AFY increase (i.e., a 3.2% increase) from the 10,284 AFY amount shown in the original Water Demand Report. Adding in the 218 AFY of raw water use shown in UWMP Table 4-4, that results in a total potable and non-potable water use of 10,828 AFY by 2045.

Please contact us with any questions.

REFERENCES

- EKI, 2020. EKI Environment & Water, Inc., *2020 Water Demand Analysis and Water Conservation Update*, December 2020.
- EKI, 2021. EKI Environment & Water, Inc., *2020 Urban Water Management Plan, North Marin Water District*, June 2021.
- NMWD, 2019. 2018 Novato Water System Master Plan Update, prepared by North Marin Water District, dated September 2019.

Table 4-1 (Demand/Conservation Report)
 Population and Employment Growth Projections
 North Marin Water District

Category	Growth Projections											Total Growth Rate 2020-2045	Average Annual Growth Rate 2020-2045
	2015	2016	2017	2018	2019	2020	2025	2030	2035	2040	2045 (f)		
Population													
Historical Population Estimates (a)	61,381	61,386	61,470	61,616	61,857	61,658	--	--	--	--	--	--	--
District Population Projection, 2018 ABAG (b)	--	--	--	--	--	--	62,352	63,485	64,341	65,092	65,852	6.8%	0.27%
District Population Projections Adjusted for RHNA (c)	--	--	--	--	--	--	63,389	65,440	67,838	68,631	69,432	13%	0.50%
District Population Projections Adjusted for RHNA and 2022 City/County Housing Estimates (d)	--	--	--	--	--	--	65,877	67,928	70,326	71,147	71,978	17%	0.67%
Employment													
2018 ABAG Employment Projections (e)	--	--	--	--	--	26,910	27,290	27,915	28,225	28,290	28,355	5.4%	0.27%

Population and Employment Growth Projections

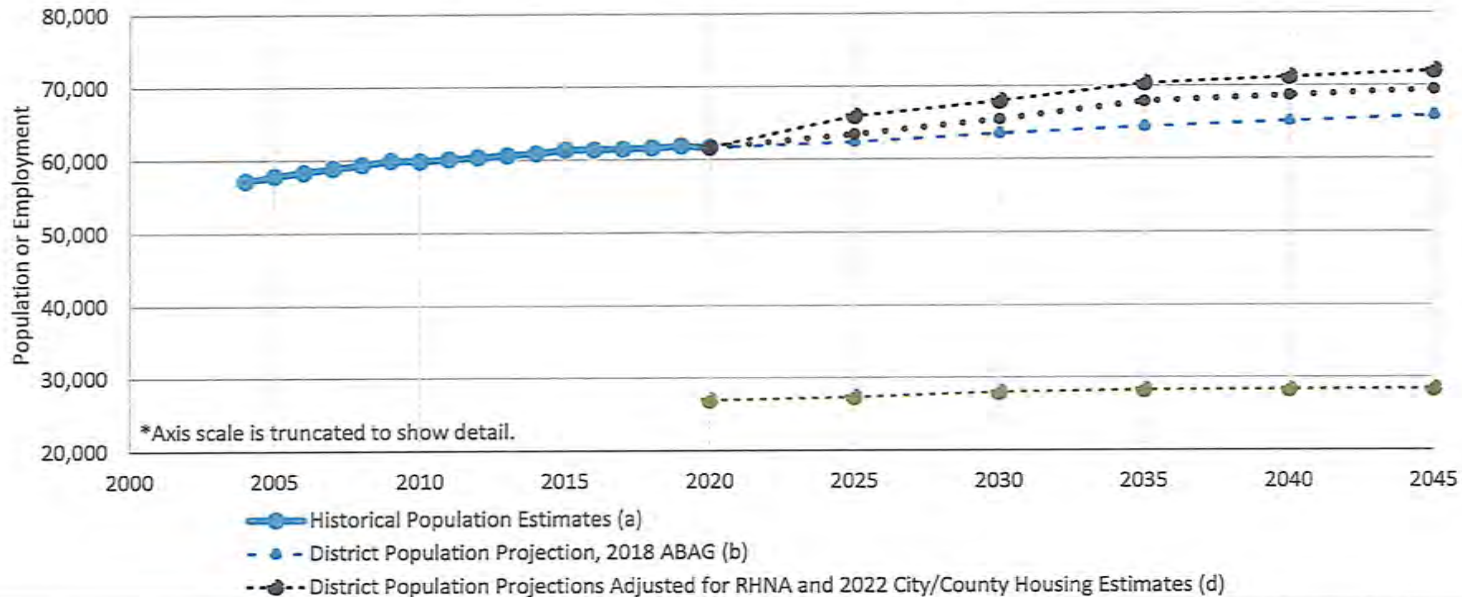


Table 4-1 (Demand/Conservation Report)
Population and Employment Growth Projections
North Marin Water District

Abbreviations:

-- = not available

ABAG = Association of Bay Area Governments

District = North Marin Water District

HCD = California Department of Housing and Community Development

RHNA = Required Housing Needs Allocation

Notes:

- (a) Historical population estimates for 2015 per Reference 3, 2020 per Reference 5, and all other years per Reference 4.
- (b) District population projections are calculated by applying the City of Novato 2018 ABAG growth rates to the current 2020 population estimate of 61,658 per Reference 5.
- (c) The City of Novato is required to provide 2,107 housing units by 2035 based on the RHNA (Reference 2), which is higher than the growth anticipated in the General Plan 2035 and by ABAG 2018. Assuming 2.57 persons per household and a linear increase in future housing units, the population growth from 2025 to 2035 is adjusted by adding the customers of the new housing units to the District population projection (2018 ABAG). Population growth rate beyond 2035 is assumed to be the same as the ABAG 2018 projection.
- (d) The District population projections were updated in October 2022 to include a total of 2,904 additional housing units required by Marin County for their 6th cycle Housing Element update, as well as new housing requirements from HCD for the City of Novato (Reference 6). Assuming 2.57 persons per household and a linear increase in future housing units, the population growth from 2025 to 2035 is adjusted by adding the customers of the new housing units to the District's population projection. Population growth rate beyond 2035 is assumed to be the same as the ABAG 2018 projection.
- (e) 2018 ABAG population and employment projections per Reference 1. Projections shown reflect the City of Novato, and not the entirety of the District service area. The growth rate reflected by this projection was applied to the current estimated 2020 population of 61,658 to extrapolate growth for the District service area.
- (f) ABAG 2018 includes projections through 2040. 2045 employment projections are calculated based on the 2035-2040 growth rate (0.23%).

References:

- 1. ABAG, 2018. Association of Bay Area Governments, Plan Bay Area Projections 2040, released on November 2018.
- 2. ABAG, 2020. Association of Bay Area Governments, Regional Housing Needs Allocation Proposed Methodology: San Francisco Bay Area, 2023-2031, released on October 2020.
- 3. North Marin Water District, 2016. 2015 Urban Water Management Plan, prepared by North Marin Water District, dated June 2016.
- 4. North Marin Water District, 2020a. NMWD Historical Population.xlsx, provided by North Marin Water District on 6 April 2020.
- 5. North Marin Water District, 2020b. Information provided by North Marin Water District via email, received 22 July 2020.
- 6. North Marin Water District, 2022. Information provided by North Marin Water District via email, received 12 August 2022.

**Table 4-2 (Demand/Conservation Report)
Historical and Projected Account Growth Rate by Customer Sector
North Marin Water District**

Water Use Sector	Basis for Account Growth	Average Annual Growth (a)	
		Historic (2010-2019)	Projected (2020-2045)
Single Family Residential	population	0.082%	0.67%
Existing Accounts			
New Accounts			
Apartment	population	0.075%	0.67%
Townhouse/Condo	population	-0.0036%	0.67%
Mobile Home	population	0%	0.67%
Commercial	employment	-0.25%	0.27%
Government	employment	0.59%	0.27%
Irrigation	employment	-1.9%	0.27%
Pool	population	0.12%	0.67%
Other	employment	1.1%	0.27%

Notes:

(a) Growth is presented on an average annual basis over the indicated period.

**Table 4-3 (Demand/Conservation Report)
Change in Number of Accounts based on Projected Growth
North Marin Water District**

Projected Number of Accounts

Water Use Sector	Number of Accounts (a)				
	2025	2030	2035	2040	2045 (b)
Single Family Residential	15,880	16,374	16,952	17,150	17,351
Apartment	634	653	676	684	692
Townhouse/Condo	3,324	3,427	3,548	3,590	3,632
Mobile Home	109	112	116	118	119
Commercial (c)	821	840	850	852	853
Government	100	103	104	104	104
Irrigation	361	369	373	374	375
Pool	98	101	105	106	107
Other (d)	476	487	492	493	494
Total Accounts	21,803	22,468	23,217	23,471	23,728

Incremental Increase in Accounts from 2019

Water Use Sector	Number of Accounts				
	2025	2030	2035	2040	2045
Single Family Residential	1,017	1,511	2,089	2,287	2,488
Apartment	41	60	83	91	99
Townhouse/Condo	213	316	437	479	521
Mobile Home	7	10	14	16	17
Commercial (c)	11	30	40	42	43
Government	1	4	5	5	5
Irrigation	5	13	17	18	19
Pool	6	9	13	14	15
Other (d)	7	18	23	24	25
Total New Accounts	1,308	1,973	2,722	2,976	3,233

Abbreviations:

ABAG = Association of Bay Area Governments
 CII = commercial, industrial and governmental/institutional
 RHNA = Required Housing Needs Allocation

Notes:

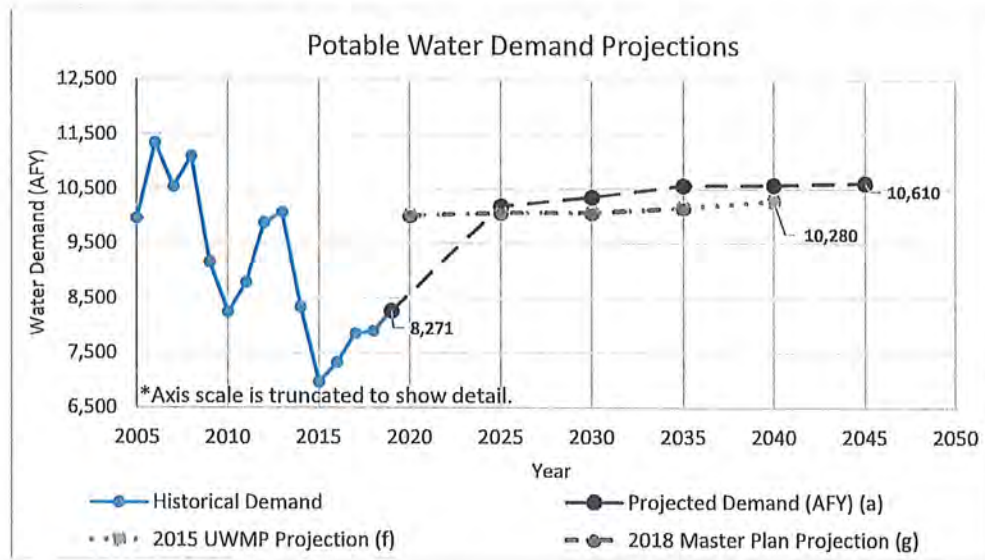
- (a) Growth in number of accounts is estimated based on ABAG 2018 projected growth rates for population and employment, adjusted for updated RHNA requirements. Residential and "pool" sectors are estimated relative to population growth, while CII, irrigation, "other" and recycled water accounts are estimated relative to employment growth.
- (b) ABAG 2018 includes projections through 2040. For the purposes of demand and account projections, it is assumed that the growth rate remains constant from 2036 through 2045.
- (c) Commercial includes combined commercial/residential accounts.
- (d) Other includes livestock, hydrants, other fire services.

References:

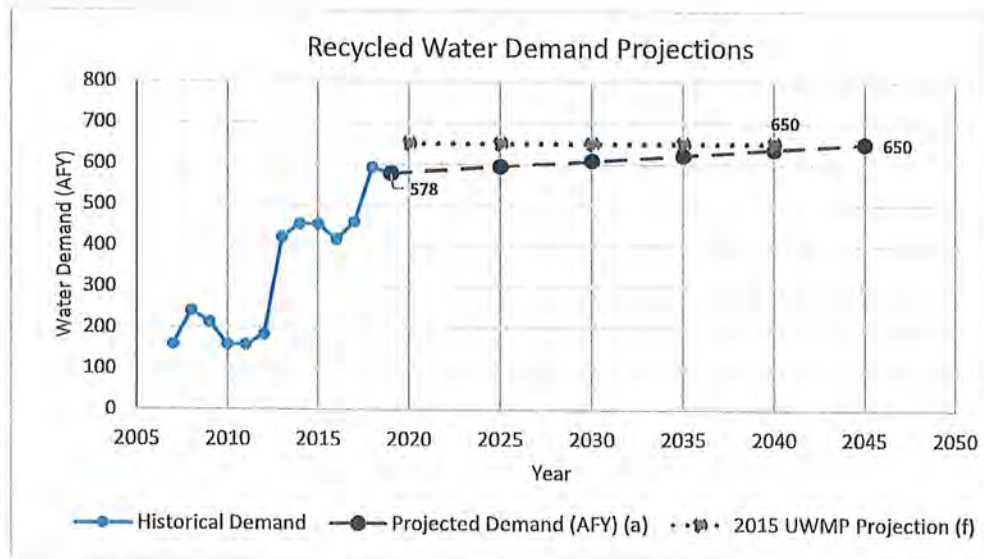
- 1. ABAG, 2018. Association of Bay Area Governments, Plan Bay Area Projections 2040, released on November 2018.

**Table 4-6 (Demand/Conservation Report)
Projected Water Demand
North Marin Water District**

Water Use Sector	Projected Demand (AFY) (a)				
	2025	2030	2035	2040	2045
Potable Water					
Single Family Residential					
Existing Accounts	5,839	5,839	5,839	5,839	5,839
New Accounts (b)	486	722	998	1,092	1,188
Apartment	710	732	758	767	775
Townhouse/Condo	578	596	617	624	632
Mobile Home	113	116	120	122	123
Commercial	961	983	993	996	998
Government	302	309	312	313	313
Irrigation	1,001	1,024	1,035	1,038	1,040
Pool	88	91	94	95	97
Other	44	45	45	46	46
Non-revenue Water (c)	3.0%	3.0%	3.0%	3.0%	3.0%
	311	321	332	336	340
Estimated Passive Savings (d)	-247	-427	-581	-690	-781
Total Potable Demand	10,185	10,351	10,564	10,577	10,610
Recycled Water					
Recycled Water (e)	595	608	622	636	650
Total Recycled Water Demand	595	608	622	636	650



**Table 4-6 (Demand/Conservation Report)
Projected Water Demand
North Marin Water District**



Abbreviations:

- ABAG = Association of Bay Area Governments
- AFY = acre-feet per year
- AWE = Alliance for Water Efficiency
- UWMP = Urban Water Management Plan

Notes:

- (a) Water demand projections are estimated based on pre-drought demand factors, based on recent historical use. Growth in accounts is based on ABAG 2018 projections, as identified in Table 4-1.
- (b) Water demand factors for new single family residential accounts are based on water use per dwelling unit for buildings constructed in 1994 and later.
- (c) Estimates of non-revenue water are based on the average percentage of water loss reported for 2017 through 2019, per Table 3-2.
- (d) Passive water savings are based on the AWE Conservation Tracking Tool.
- (e) Recycled water projections per Reference 2.
- (f) 2015 UWMP projections per Reference 2.
- (g) 2018 Master Plan projections per Reference 3.

References:

1. ABAG, 2018. Association of Bay Area Governments, Plan Bay Area Projections 2040, released on November 2018.
2. North Marin Water District, 2016. 2015 Urban Water Management Plan, prepared by North Marin Water District, dated June 2016.
3. North Marin Water District, 2019. 2018 Novato Water System Master Plan Update, prepared by North Marin Water District, dated September 2019.

Table 4-4 (2020 UWMP)
Use for Potable and Non-Potable Water - Projected (DWR Table 4-2)
 North Marin Water District

Use Type	Additional Description (as needed)	Projected Water Use (a) (b)				
		2025	2030	2035	2040	2045
Single Family		6,197	6,341	6,540	6,580	6,631
Multi-Family	Apartments, condos, mobile homes	1,323	1,307	1,308	1,288	1,275
Commercial		926	923	912	899	889
Institutional/ Governmental		295	298	297	295	294
Landscape		1,001	1,024	1,035	1,038	1,040
Other Potable	Pools, fire services	132	136	140	141	142
Losses	(c)	311	321	332	336	340
Other Non-Potable	Raw Water (d)	218	218	218	218	218
TOTAL		10,403	10,569	10,782	10,795	10,828
<p>NOTES:</p> <p>(a) Volumes are in units of AF.</p> <p>(b) Projected water demands were updated to account for additional anticipated housing needs for the District. Passive conservation savings were applied to each respective sector.</p> <p>(c) Losses represent all non-revenue water, which includes both real and apparent losses, including unauthorized consumption.</p> <p>(d) Raw water projections are based on past raw water usage.</p>						

13

North Bay Watershed Association

Board Meeting - Agenda

December 2, 2022 | 9:30 – 11:30 a.m.

**MEETING WILL BE HELD AT THE
Silverado Country Club
St. Andrews Room at the Members Cub (2nd floor)
1600 Atlas Peak Rd, Napa, CA 94558**

For those wishing to attend virtually

Join Zoom Meeting:

<https://us02web.zoom.us/j/81630673971?pwd=dm94TXJCRWMYWFBLc3U5V2pTSmNRZz09>

Webinar ID: 816 3067 3971 Password: 216460

Agenda and materials will be available the day of the meeting at: www.nbwatershed.org

AGENDA

Time	Agenda Item	Proposed Action
9:30	Welcome and Call to Order – Roll Call and Introductions <i>Jack Gibson, Chair</i>	<i>N/A</i>
9:35	General Public Comments This time is reserved for the public to address the Committee about matters NOT on the agenda and within the jurisdiction of the Committee.	<i>N/A</i>
9:40	Agenda and Past Meeting Minutes Review <i>Jack Gibson, Chair</i> Treasure's Reports <i>Jack Gibson, Chair</i>	<i>Approve/ Review</i>
9:45	Executive Director Report <i>Andy Rodgers, Executive Director</i> Andy will provide updates on activities since the November 4 Board meeting, including active and developing projects, recent meetings, regional programs and initiatives, communications, and committees. Andy will outline ideas for next and future Board meeting topics and solicit feedback.	<i>ED updates, Board questions, and input</i>
10:10	Board Information Exchange and Drought Updates <i>Members</i> Members will highlight issues and share items of interest.	<i>N/A</i>

<p>10:30</p>	<p>Guest Presentation: The Milliken Creek Flood Reduction and Fish Passage Project—Local partnerships with regional support realize completed multi-benefit dam removal and riparian corridor restoration</p> <p><i>Rick Thomasser, Manager, Napa County Flood Control and Water Conservation District</i></p> <p>Rick will provide an overview of a project started in 2017 and completed in 2022 in partnership with local landowners to reduce flooding and restore fish passage along an important tributary to the Napa River. Work included removing a 67-year-old dam and restoring access to over 1,000 feet of spawning and rearing habitat for native steelhead trout.</p>	<p><i>Presentation slides</i></p>
<p>10:40</p>	<p>Tour—The Milliken Creek Flood Reduction and Fish Passage Project</p>	
<p>11:30</p>	<p>Announcements/Adjourn</p> <p>Next Board Meeting: January 6, 2022 (tentative)</p>	<p><i>N/A</i></p>

14

DISBURSEMENTS - DATED NOVEMBER 17, 2022

Date Prepared 11/14/22

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
1	Able Tire & Brake	Tires (4) (\$1,319) ('15 F250) & Tire Repair ('16 Nissan Frontier)	\$1,352.54
2	All Star Rents	Propane (8 gals) (STP)	37.51
3	Alpha Analytical Labs	Lab Testing	145.00
4	American Water Works Assoc	Membership Dues (Ladd)	106.00
5	Arendell, Tony	Retiree Exp Reimb (Nov Health Ins)	1,137.78
6	Building Supply Center	Miscellaneous Maintenance Tools & Supplies	44.13
7	California Water Service	Water Service (O.M.)	32.12
8	Chandrasekera, Carmela	Retiree Exp Reimb (Nov Health Ins)	1,137.78
9	Charles Custom Welding	Welding Services (Residence Inn by Marriot)	1,320.00
10	Cilia, Joseph	Retiree Exp Reimb (Nov Health Ins)	409.28
11	Comcast	November Internet (Wood Hollow)	356.55
12	Comcast	November Phone Service (Wood Hollow, Buck Institute, Dist Yard & STP)	1,437.18
13	Core & Main	Copper Pipe (\$5,954) & Gaskets (40)	6,238.76
14	Enterprise FM Trust	Monthly Leases for Chevy Colorado, Ford Ranger, F250's (2), Nissan Rogues (2), Nissan Frontiers (2), F150's (7) & Chevy Bolts (2)	8,933.69
15	Ferguson Waterworks	Replacement Turbine Meter (Stonetree Golf Course)	3,678.15
16	Fishman Supply Co	Rain Gear (Maintenance)	114.09
17	Fisher Scientific	Tweezers (Lab)	78.29
18	Freyer & Laureta, Inc.	Prog Pymt#10: Engineering & Design Services for NMWD Hydropneumatic Pressure Stations (Balance Remaining on Contract \$63,206)	1,010.00

Seq	Payable To	For	Amount
19	Friedman's Home Improvement	Flat Bar	26.59
20	Frontier Communications	Leased Lines	1,746.83
21	Frontier Communications	November Internet (STP)	640.00
22		Vision Reimbursement	155.00
23	Grainger	Miscellaneous Maintenance Tools & Supplies	1,665.41
24	Hach Co.	Desiccant Cartridges (3) & Chlorine Reagent (1,000) (STP)	541.52
25		Vision Reimbursement	184.00
26	Jackson, David	Retiree Exp Reimb (Nov Health Ins)	1,137.78
27	Kehoe, Theresa	Exp Reimb: Decor & Raffle Prizes for Holiday Party	181.02
28	Kehoe, Chris	Exp Reimb: Bagels for Department Meeting	55.80
29	Kemira Water Solutions	Balance Due for Ferric Chloride (10 tons) (STP)	110.61
30	Latanyszyn, Roman	Retiree Exp Reimb (Nov Health Ins)	409.28
31	Lemos, Kerry	Retiree Exp Reimb (Nov Health Ins)	1,137.78
32	MacDonald, Doris	Novato "Toilet Rebate" Program	125.00
33	Manzoni, Alicia	Retiree Exp Reimb (Nov Health Ins)	409.28
34	Marin County Ford	Service Parts ('15 F250, '15 F150 & '20 F250)	244.05
35	McLellan Co, WK	Misc Paving	21,889.55
36	McDonald, Daniel	Exp Reimb: Safety Boots	200.00
37	McGuire, Tom	Novato "Water Smart Landscape Efficiency" & "Cash for Grass" Rebate Programs	800.00
38	McMaster-Carr Supply Co	Stainless Steel Pipe Nipples (4)	123.71
39	McPhail Fuel Company	Propane Tank Lease (25 Giacomini Rd)	64.95
40	Mitch's Certified Classes	Backflow Prevention Assembly Test Workshop (12/8-12/9) (Lawrence)	800.00
41	Moldovan, Kathleen	Refund Overpayment on Closed Account	222.23

Seq	Payable To	For	Amount
42	Noll & Tam Architects	Prog Pymt#18: Consulting Services for NMWD Headquarters Upgrade A/E Services (Balance Remaining on Contract \$303,354)	46,993.39
43	North Marin Auto Parts	Service Parts ('21 Nissan Rogue, STP Gem Cart, '20 F250, '12 Int'l Dump Truck, '10 F150, '02 Chevy K1500) (\$2,043) & Miscellaneous Maintenance Tools & Supplies	2,225.37
44	North Bay Gas	Nitrogen & Breathing Air (STP)	856.40
45	Novato Chamber of Commerce	Leadership Class (Pearlman)	1,200.00
46	ODP Business Solutions, LLC	Misc Office Supplies	490.82
47	Pacific Gas & Electric Co	Power: Bldgs/Yard (\$2,226), Other (\$-171), Pumping (\$43,457), Rect/Controls (\$-756), Treatment (-\$185). Includes CA Climate Credits	44,570.39
48	Pini Hardware	Miscellaneous Maintenance Tools & Supplies	410.61
49	Point Reyes Light	Display Ad on 10/27/22: Salinity Intrusion into Pt. Reyes Well Supply	127.50
50	Pollard Water	Pipe Gasket Lube (4)	31.90
51	Preferred Alliance, Inc.	Pre-Employment Physical (Rubio-Gomez)	42.00
52	Recology Sonoma Marin	Sept & Oct Trash Removal	1,142.32
53	Redwood Health Services, Inc.	November 2022-Dental Claims & Fees Expense	9,784.43
54	Sigma Pneumatics, Inc.	O-Ring & Inlet Swivel Nut Cap	203.19
55	Sonoma County Tree Experts Inc.	Removal of Large Maple Tree & 10 Small Trees (District Yard)	1,900.00
56	Soruco, Carmen	Novato "Ultra High Efficiency Toilet"	200.00
57	Staples Business Credit	Misc Office Supplies	75.16
58	United Parcel Service	Delivery Services: Sent Control Board for Tank Rectifier & Weights Sent for Calibration & Certification	50.29
59	US Bank	October Safekeeping Treasury Securities	114.00
60	Verizon Wireless	SCADA & AMI Collectors (\$650)	830.86
61	Vulcan Materials Company	Sand (46 yds)	2,968.24

DISBURSEMENTS - DATED NOVEMBER 23, 2022

Date Prepared 11/21/22

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
P/R*	Employees	Net Payroll PPE 11/15/22	\$170,462.92
90539*	Internal Revenue Service	Federal & FICA Taxes PPE 11/15/22	71,442.97
90540*	State of California	State Taxes & SDI PPE 11/15/22	16,824.04
90538*	CalPERS	Pension Contribution PPE 11/15/22	42,933.53
90541*	CalPERS	December Insurance Premium (Employer \$50,693, Retirees \$11,336 & Employees \$8,725)	70,754.03
EFT*	US Bank	October Bank Analysis Charge (Lockbox \$912 & Other \$367 Less Interest \$72)	1,207.75
1	100 Wood Hollow Drive	December Wood Hollow Rent	28,294.75
2	Able Fence Company	Replacement Gate for Winged Foot Tank Site	6,530.00
3	Alameda Electrical Distributors	Wire Connection (100)	39.22
4	American Family Life Ins	AFLAC-December 2022 Employee Paid Benefit	3,344.19
5	Athens Administrators	October Indemnity Review Fee	105.00
6	AT&T	Leased Lines	68.66
7	Backflow Distributors	Relief Valve Kits (5)	112.19
8	Bank of Marin	Bank of Marin Loan Principal & Interest (Pynt 133 of 240) Aqueduct Energy Efficient Project	46,066.67
9	Bay Area Barricade Service	Speed Limit & Slow Down Signs (4) & Blue Spray Chalk (2)	352.14
10	Bayside Management	Refund Overpayment on Closed Account	167.60
11	Brumbaugh, Joe and Jan	Refund Overpayment on Open Account	858.28
12	Chemscan	Reagent for STP (2)	708.77

Seq	Payable To	For	Amount
13	Clipper Direct	December Commuter Benefit Program	128.00
14	Comcast	Oct Internet Services (1250 Lynwood Drive) & November Internet (Buck Institute)	561.10
15	Costco Membership	Membership Renewal (1/23-12/23) (Budget \$120)	120.00
16	Crane Tech Inc	Emergency Repair for Mechanic's Crane	1,320.00
17	Davenport, Colin	Exp Reimb: Hotel & Meals During Water Treatment Training in Sacramento (11/7-11/8)	147.58
18	D.L. Falk Construction, Inc.	Prog Pymt#4: Perform NMWD Admin & Lab Building Upgrades (Balance Remaining on Contract \$10,001,122)	556,875.04
19	D.L. Falk Const. Escrow Acct	5% Retainer: DL Falk Construction-CA Bank of Commerce-Admin Bldg & Lab Upgrade	29,309.21
20	Fedak & Brown LLP	October Progress Billing Financial Statement Audit FY21/22 (Balance Remaining on Contract \$4,931)	1,606.00
21	Fishman Supply Co	Rain Gear (Maintenance)	147.67
22	Fisher Scientific	Endo Broth & Test Kit (Lab)	442.81
23	Fluid Components International	Hypochlorite Flow Sensor (STP)	1,470.89
24	Grainger	Miscellaneous Maintenance Tools & Supplies	884.85
25	Green Ravine Builders	Refund Security Deposit on Hydrant Meter Less Final Bill	486.00
26	Harrington Industrial Plastics	Chemical Pump Replacement (STP)	1,528.72
27	Hildebrand Consulting LLC	2022 Connection Fee Study - Novato (\$9,200), West Marin (\$4,140) & Recycled Water (\$6,900)	20,240.00
28	InfoSend, Inc.	October Processing Fee for Water Bills (\$1,254), Postage (\$3,731) & Oct Monthly Support Fee	5,873.52
29	Kiosk Creative LLC	Marketing Communication & Outreach Services (Balance Remaining on Contract \$45,226)	5,523.48
30	KP Promotions	Uniform Order	311.29

Seq	Payable To	For	Amount
31	Lincoln Life Employer Serv	Deferred Compensation 11/15/22	11,811.84
32	Maggiore & Ghilotti	Prog Pymt#10: Old Ranch Road Tank No. 2 Construction Services (Final Payment less Retention)	20,175.00
33	County of Marin	Encroachment Permits (5) (4 Indian Trail Ct-Novato, 450 Atherton Ave-Novato, 115 Third St-Pt. Reyes, 155 Portola Ave St-Pt. Reyes & 35 Viento Way-Pt. Reyes)	2,242.70
34	Micro Motion Inc	Magnetic Flow Meter Sensor (STP)	50,376.11
35	Mutual of Omaha	December 2022 Group Life Insurance Premium	1,166.03
36	Nationwide Retirement Solution	Deferred Compensation 11/15/22	1,195.00
37	ODP Business Solutions, LLC	Miscellaneous Office Supplies	597.42
38	Pace Supply	Flanges (2) (\$1,115), Couplings (2), Flange Spools (4) (\$1,874), Elbows (2), Replacement Motor (\$1,517) & Pump (\$1,821) for PRE #2 Pump #1	6,893.94
39	Pacific Slope	Remove Alder Tree w/ Crane Near Bridge (NMWD Share - Gallagher Well #2 Project)	1,750.00
40	Parkinson Accounting Systems	Installation of Sage Upgrade & Accounting Support	1,023.75
41	Point Reyes Light	Display Ad: Salinity Intrusion Into the Point Reyes Well Supply on 11/3/22 & 11/10/22	255.00
42	Point Reyes Prop Mgmt Assn	November Property Management HOA Fee (25 Giacomini Rd)	75.05
43	Quadient, Inc.	December Postage Meter Rental	143.09
44	Randall Bros. Automotive	Air Conditioning Repair ('08 F250)	229.36
45	Ricci, Faezeh	Novato "Washer Rebate" Program	100.00
46	Rulien, Peg	Novato "Water Smart Landscape Efficiency"	200.00
47	Scott Technology Group	Monthly Maintenance on Engineering Copier & Contract Overage Charge	253.06
48	Smith, Barbara	Novato "Toilet Rebate" Program	125.00
49	Soiland Co., Inc.	Rock (125 yds)	4,265.19

Seq	Payable To	For	Amount
50	Solar, Rosalia	Exp Reimb: National Notary Renewal	621.42
51	Sonoma County Water Agency	October Contract Water (\$464,919) & Conservation Support Program (7/1/22-9/30/22) (\$1,297)	466,216.65
52	SPG Solar Facility XII, LLC	October Energy Delivered Under Solar Services Agreement	12,198.47
53	Township Building Services	October Janitorial Services (STP)	367.86
54	USA BlueBook	Rotary Drum (STP)	202.68
55	Vantress, Pamela	Novato "Washer Rebate" Program	100.00
56	Vulcan Materials Company	Pea & Sand (77 yds)	4,955.40
57	VWR International LLC	Thermometer & Pump Tubing (Lab)	475.04
58	Wood Rodgers, Inc.	Prog Pymt#3: Gallagher Well Environmental Support/Hydrogeological Design (Balance Remaining on Contract \$13,979)	470.00
59	ZORO	Hole Cutters (3), Drill Set, Hole Saw Kit & Adjustable Wrench	858.99
TOTAL DISBURSEMENTS			<u>\$1,676,592.92</u>

The foregoing payroll and accounts payable vouchers totaling \$1,676,592.92 are hereby approved and authorized for payment.

Julie Blue 11/22/22
Auditor-Controller Date

[Signature] 11/22/22
General Manager Date

DISBURSEMENTS - DATED DECEMBER 1, 2022

Date Prepared 11/28/22

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
1	Amazon	Fuel System Dye Leak Detector Fluid, Forklift Propane Tank, Holiday Party Décor, Ethernet Cables (2), Dewalt Tool Batteries (6), Service Awards (5), Bullhorn (Const), Trailer Hitch, Label Maker (Lab), Mechanic's Manual (Commercial Vehicle Systems) & Frames for Resolutions	\$2,148.32
2	Automation Direct	Bracket & Power Supply Panel	146.48
3	Boucher Law, PC	July Labor & Law Matters	3,408.00
4	Nancy & Cesar Chirinos	Refund Overpayment on Open Account	180.99
5	Consolidated CM	Prog Pymt#18: Provide Construction Management Services for NMWD Admin Building Renovation (Balance Remaining on Contract \$688,508)	65,298.50
6	Core Utilities, Inc	Consulting Fees: October IT Support (\$6,000), Assistance with Installation of Fiber Optics @ STP, PLC Programming @ Gallagher Well #2, SCADA (\$1,825) & CORE Billing Maintenance	9,525.00
7	Core & Main	Brass Couplings (40) (\$1,161), Nipples (20), Gaskets (50) & Pipe (80') (\$2,170)	3,910.89
8	Diesel Direct West	Diesel (300 gal) (\$1,736) & Gasoline (1,450 gal) (\$7,116)	8,851.68
9	Ditch Witch West	Water Swivel & Screen	231.20
10	Grainger	Miscellaneous Maintenance Tools & Supplies & Ultrasonic Level Sensor (PRE 4C) (\$958)	3,595.51
11	McLellan Co, WK	Misc Paving	18,574.96
12	McMaster-Carr Supply Co	Strut Channel Brackets (8), Nuts (14) & Pipe Fittings (6)	380.73

Seq	Payable To	For	Amount
13	Morgan, Dan	Refund Advance for Engineering Over Actual Job Costs (Marin Country Club Estates 3)	16,207.10
14	MSI Litho	Business Cards (Breit, Pearlman, Bynum, Rubio-Gomez, Petterle, Baker & Joly)	288.69
15	Nute Engineering	Prog Pymt#3: Engineering Services for Oceana Marin Force Main 1A Project (Balance Remaining on Contract \$78,507)	3,351.50
16	ODP Business Solutions, LLC	Annual Calendar Order	1,040.40
17	Preferred Alliance, Inc.	Pre-Employment Physical (Ziemer)	42.00
18	PumpMan Norcal	Labor to Remove & Replace 2 Pumps (O.M. Lift Station)	4,490.00
19	Red Wing Business Advantage	Safety Boots (Reed)	200.00
20	Soiland Co., Inc.	Rock (31 yds)	1,062.69
21	State Water Resources Control Board	Clean Water SRF Loan Principal & Interest-RW North Segment 1 (Pymt #11 of 20)	40,196.14
22	SWK Technologies, Inc.	IT Support for Accounting Software	46.50
23	Tamagno Green Products	Sludge Removal from STP (105 yds)	4,580.00
24	Univar	Caustic Soda (12 dry tons) (STP)	9,975.43
25	USA BlueBook	Back Pressure Valve (STP)	382.25
26	Volvo Construction Equipment	Misc Vehicle Supplies	848.18
27	ZORO	Electrical Kit	141.03
		TOTAL DISBURSEMENTS	<u>\$199,104.17</u>

The foregoing payroll and accounts payable vouchers totaling \$199,104.17 are hereby approved and authorized for payment.

Audie Blue 11/29/22
Auditor-Controller Date

[Signature] 11/29/2022
General Manager Date

NOTICE – NMWD BOARD VACANCY

Effective November 6, 2022, a vacancy exists on the Board of Directors of North Marin Water District due to the death of Director James Grossi. The Board will appoint a successor who will serve until the next general election of the District scheduled for November 2024. Any registered voter residing within Division 1 of the District and interested in the post is invited to contact the District Secretary at (415) 897-4133. The area of the District generally includes the greater Novato area and the Point Reyes Station, Olema, Bear Valley, Inverness Park, Paradise Ranch Estates and Oceana Marin areas of West Marin. Applicants are requested to submit a letter of interest by December 2, 2022 and describe their experience, educational background and previous public service and outline why they are interested in serving on the Board of Directors. The Board of Directors will review the letters of interest and interview applicants at an open public meeting to be scheduled. The meeting will be held at the District headquarters located at 100 Wood Hollow Drive, Novato, California. The Board will make an appointment to fill the vacancy at an open public meeting to be held on December 13, 2022.

Theresa Kehoe
District Secretary
North Marin Water District

Dated: November 16, 2022

POINT REYES LIGHT November 17, 2022

Notice:

Seasonal salinity intrusion has occurred into two of North Marin Water District's wells serving the West Marin communities of Point Reyes Station, Olema, Inverness Park, and Paradise Ranch Estates.

The table below lists the most recent concentrations for sodium and chloride in the West Marin water supply. While there is no direct health concern from salt for most people at this concentration, customers that are on sodium restricted diets may choose to consult their physicians to see if additional sodium is a concern for them.

Date	Sodium	Chloride	Units
10/17/22	51 - 82*	71 - 140*	mg/L*
10/24/22	12 - 76*	14 - 140*	mg/L*
10/31-11/1/22	12 - 74*	14 - 130*	mg/L*
11/7/22	13 - 29*	15 - 39*	mg/L*

mg/L = milligrams per liter

* This is a range from four different sample sites across the span of NMWD's distribution system.

More information about NMWD's water quality programs including the annual report summarizing the high quality of the drinking water we serve to your tap can be found at www.nmwd.com/wq.

POINT REYES LIGHT November 23, 2022

Notice:

Seasonal salinity intrusion has occurred into two of North Marin Water District's wells serving the West Marin communities of Point Reyes Station, Olema, Inverness Park, and Paradise Ranch Estates.

The table below lists the most recent concentrations for sodium and chloride in the West Marin water supply. While there is no direct health concern from salt for most people at this concentration, customers that are on sodium restricted diets may choose to consult their physicians to see if additional sodium is a concern for them.

Date	Sodium	Chloride	Units
10/24/22	12 - 76*	14 - 140*	mg/L*
10/31-11/1/22	12 - 74*	14 - 130*	mg/L*
11/7/22	13 - 29*	15 - 39*	mg/L*
11/14/22	13 - 57*	15 - 92*	mg/L*

mg/L = milligrams per liter

* This is a range from four different sample sites across the span of NMWD's distribution system.

More information about NMWD's water quality programs including the annual report summarizing the high quality of the drinking water we serve to your tap can be found at www.nmwd.com/wq.

POINT REYES LIGHT December 1, 2022

Notice:

Seasonal salinity intrusion has occurred into two of North Marin Water District's wells serving the West Marin communities of Point Reyes Station, Olema, Inverness Park, and Paradise Ranch Estates.

The table below lists the most recent concentrations for sodium and chloride in the West Marin water supply. While there is no direct health concern from salt for most people at this concentration, customers that are on sodium restricted diets may choose to consult their physicians to see if additional sodium is a concern for them.

Date	Sodium	Chloride	Units
10/31-11/1/22	12 - 74*	14 - 130*	mg/L*
11/7/22	13 - 29*	15 - 39*	mg/L*
11/14/22	13 - 57*	15 - 92*	mg/L*
11/21/22	13 - 19*	15 - 92*	mg/L*

mg/L = milligrams per liter

* This is a range from four different sample sites across the span of NMWD's distribution system.

More information about NMWD's water quality programs including the annual report summarizing the high quality of the drinking water we serve to your tap can be found at www.nmwd.com/wq.

Three-Month Outlooks

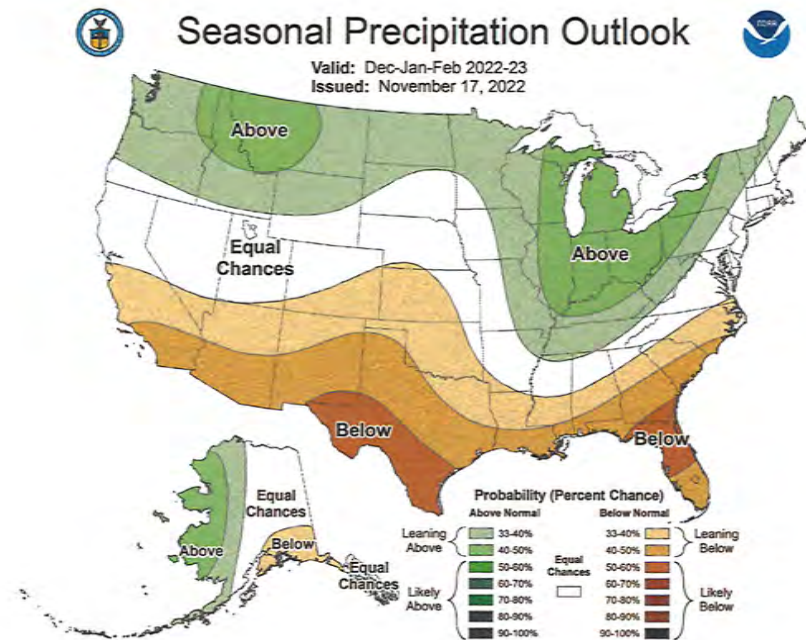
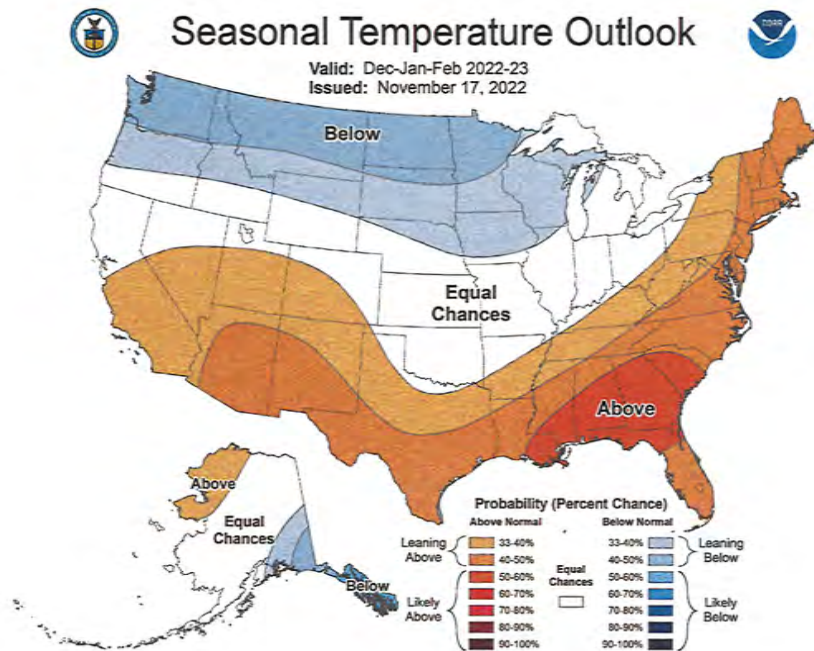
Revised OFFICIAL Forecasts

November 2022

Precipitation Probability
(Dec-Jan-Feb 2022/23)

[Climate Prediction Center - Seasonal Outlook \(noaa.gov\)](https://www.cpc.ncep.noaa.gov/products/expert_assessment/season_outlook)

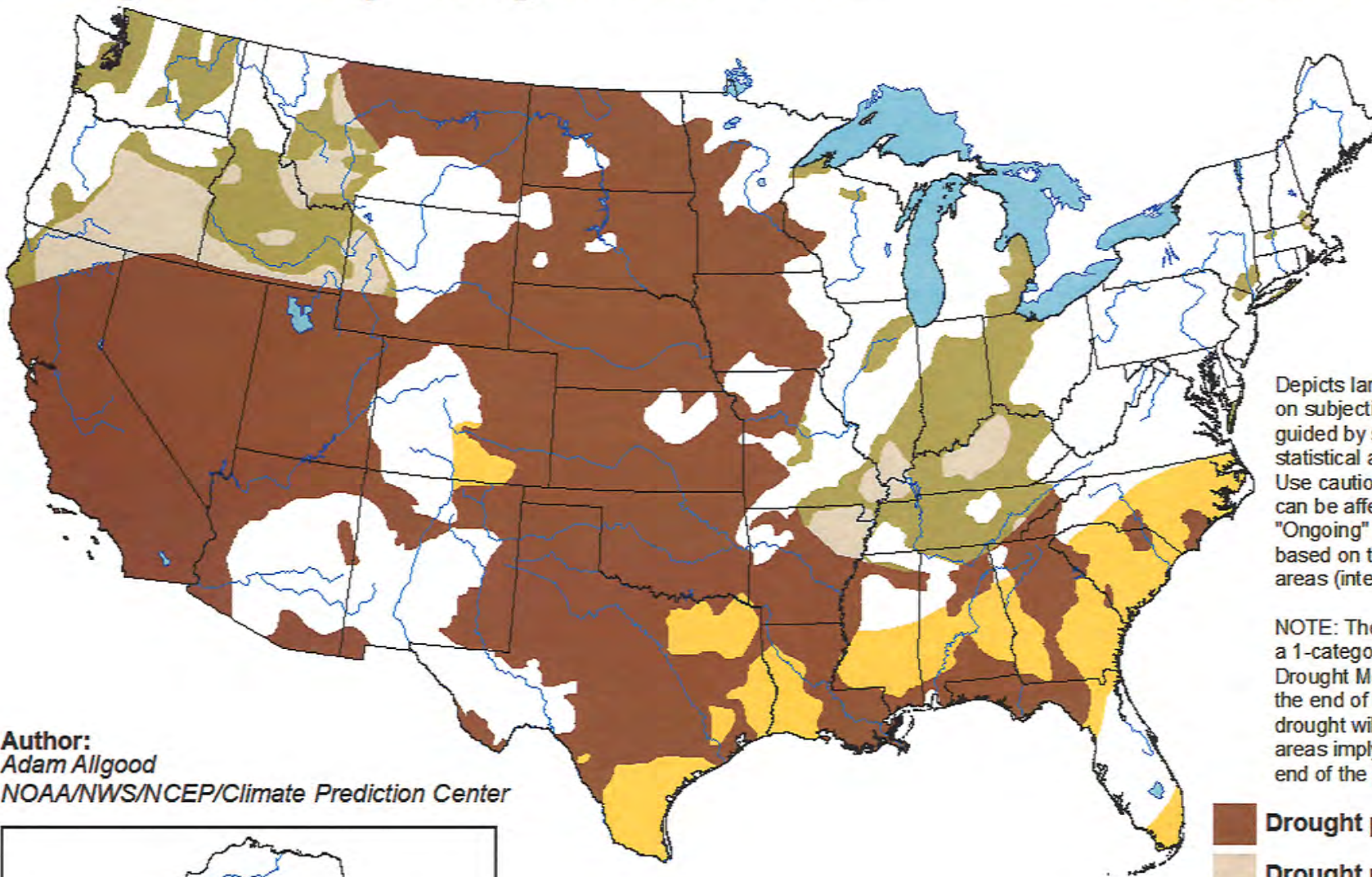
https://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.png



[UPDATED MONTHLY FORECASTS SERVICE CHANGE NOTICE]
[EXPERIMENTAL TWO-CLASS SEASONAL FORECASTS]

U.S. Seasonal Drought Outlook




Valid for November 17, 2022 - February 28, 2023
Drought Tendency During the Valid Period
Released November 17, 2022

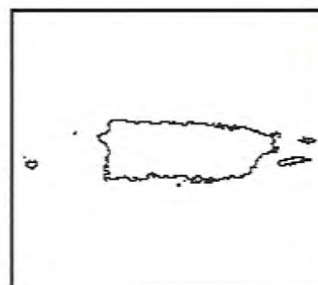
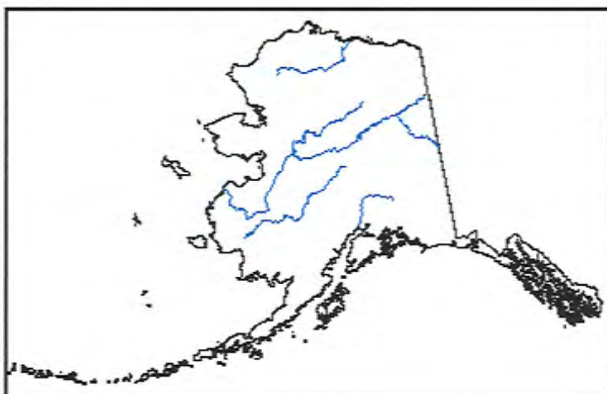


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Adam Allgood
NOAA/NWS/NCEP/Climate Prediction Center

-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZ73>



NOTICE OF SPECIAL MEETING

Notice is hereby given that a Special Meeting of the North Marin Water District Board of Directors will be held on Tuesday, December 13, 2023 at 6:00 p.m., at the District office, 100 Wood Hollow Drive, Novato CA.

The purpose of the special meeting is to interview and make appointment to fill a vacancy on the Board.

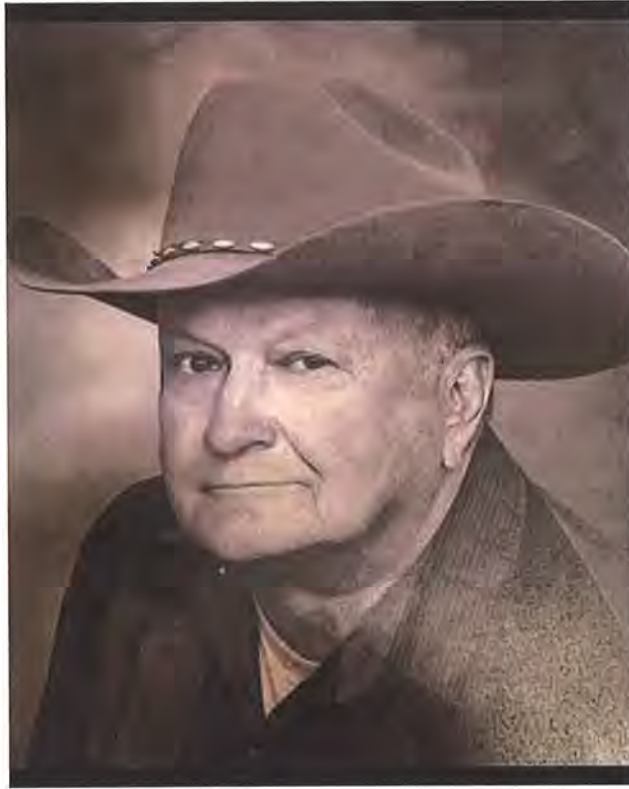
Theresa Kehoe
District Secretary
North Marin Water District

Dated: November 16, 2022

Cc:
NMWD Directors
NMWD Department Heads
Attorney Robert Maddow, Bold and Polisner, et al
Novato Advance
Marin Independent Journal
Point Reyes Light
Current Agenda Notice List

James Grossi Jr.

November 3, 1946 – November 4, 2022



Novato, CA

Beloved husband, father, grandfather and civic leader, James Grossi Jr. passed away on Friday, November 4th surrounded by his loving family.

“Jim” was born on November 3rd, 1946 in Petaluma, California to James Grossi Sr. and his wife, Rose Halter Grossi. He grew up on his family’s Marindale Ranch in West Marin County, which was purchased by his grandfather in 1917, attended Burdell Elementary School, and Petaluma High School graduating in 1964. Jim met the love of his life, Michelle Rocca and they wed in 1967. He served in the Army National Guard for eight years and went on to attend the University of California at Davis where he received his Bachelor of Science in Civil Engineering in 1973. In 1976, Jim returned to Novato after designing and building his permanent home on the family ranch where he resided with his wife Michelle and their two children James III and Dana.

Jim began his career as a registered civil engineer with the firm, McKay & Soms and after six years, he moved on to Bissell & Karns, prior to starting his engineering and consulting business, Western Planning and Development Company. During the 80's and 90's he developed and built several commercial and residential projects in Solano County including three residential projects – totaling 228 residential units and a 104-acre commercial project, a portion of which was sold to WestAmerica Bank for its headquarters. He served many years as a Principal Owner of CSW Stuber Stroeh Engineering Group until December 2019 and in semi-retirement formed Grossi Consulting, performing services including Project Oversight, Entitlement Processing, Regulatory Permitting, and working with Institutions of higher learning to establish bond programs to enable growth. In his last role, Jim served as the Sr. Vice President of BetterGIS and was a partner with InfraMappa, Inc. developing integrated software solutions to manage fieldwork, and budget for all infrastructure and utilities-related projects in a single platform.

Jim had a deep love for his family and the land where he grew up. He cultivated his passion for the outdoors in his children and grandchildren supporting their numerous 4-H and FFA projects. His greatest joy was taking his family hunting, fishing, and camping while sharing his outdoor skills and knowledge of animal husbandry. Jim was a passionate horseman and was happiest in the saddle riding not only on the Marindale Ranch, but all-over Northern California, and especially treasured his annual trail ride with the Sonoma County Trailblazers.

Deeply committed to supporting his community, Jim leaves a legacy of civic leadership, having served on numerous boards, leading fundraising efforts, and lending his expertise wherever needed. His most recent board service includes serving as board president for Halleck Creek Ranch—a therapeutic horseback riding program serving disabled children, North. Marin Water District Board member, Vice Chairman and Flood Zone Advisory board member—County of Marin, Marin County School to Career Partnership Board; and as a committee member for Citizens Bond Oversight Committee—College of Marin. Additionally, Jim was a Founding Director of the Bank of Petaluma in 1987 and served on the Board of Directors for 10 years. He also served on the Fourth District Agricultural Association Board of Directors (Sonoma-Marin Fair) for 14 years, six years of which he served as President is on the Advisory Board for Bank of Marin, was a member of the President's Circle at College of Marin and at San Mateo Community College. He also served on many community youth organizations, Chambers of Commerce and Economic Development Boards.

One of Jim's proudest achievements was serving on the Lincoln Union School Board for more than 40 years where both his children and many young people in the ranching community attended school. Jim said of the school built in 1872 "I think in this area, we're a microcosm. Life is different on the ranches than it is 5 miles down the road in Novato. People are very interested

in the type of basic education we offer and the different values and exposure than what they're used to. Parents want that type of education for their kids.”

Jim is preceded in death by his mother Rose Marie Halter Grossi and his father James Grossi Sr. He is survived by his wife of fifty-five years, Michelle, his son, James Grossi III (Jennifer), his daughter Dana Stafford (Lance), grandchildren James Grossi IV, Nicolas Grossi, Jack Stafford, Luke Stafford, and Emma Stafford. He also leaves behind his brothers Ralph Grossi (Judy), Edward Grossi and sister Beverly Grossi (Pat) along with numerous nieces, nephews, and extended family. Jim was a remarkable man, avid outdoorsman and a true cowboy! Armed with a generous and loving heart, he made his mark on everyone he touched and will be truly missed by his family, friends, colleagues, and his cherished community.

A funeral mass will be held at Our Lady of Loretto Church 1806 Novato Blvd, Novato, California on Monday, November 21st, 2022 at 4:00 PM. In lieu of flowers, the family requests donations to be made in Jim's honor to Halleck Creek Ranch <https://halleckcreekranch.org/> or Future Farmers of America-Petaluma Chapter located at Petaluma High School, 201 Fair St, Petaluma, CA 94952,

Judy Schriebman

April 3, 1955 – November 20, 2022



San Rafael

Judith Anne Schriebman, beloved wife of Jeffrey Schriebman and daughter of William and Rosemarie Webb, died in her home on the morning of Sunday, November 20, 2022, surrounded by family. Judy was born on April 3, 1955, in San Francisco and moved to Marin two years later, attending St Raphael's Elementary School and Marin Catholic High School. She graduated with a degree in Zoology from UC Berkeley. She met Jeff in 1974 at the Steinhart Aquarium in San Francisco where she was exhibiting her pet turtles. Jeff had two turtles of his own and they bonded over their pets. They married in 1979 and in 1985 moved to Tokyo, Japan for 5 years with their two children, David and Robin. They returned to Marin in 1990 to be close to both sets of parents.

Judy became a homeopathic practitioner when she saw its holistic benefits to her young children, co-authoring *The Trituration Handbook* and *Birds: Homeopathic Remedies from the Avian Realm*. A lifelong lover of the environment (especially the water), Judy passed her values on to her children

and the broader Marin community.

In 2007, Judy was elected to the Board of Directors of the Las Gallinas Valley Sanitary District. She helped create the Gallinas Watershed Council in 2004 and in 2013 she helped found the Watershed Alliance of Marin (WAM). Judy was also Chair of the Marin Group-Sierra Club Executive Committee and active in the Los Ranchitos Improvement Association Board of Directors. She spearheaded Gallinas Creek cleanup events and the floating island project to clean up the water in the Marin Civic Center Lagoon.

She loved her chickens, hosting summer pool parties, and raising vegetables in the garden. She cherished her vacations in Hawaii where she would spend each day snorkeling among the fish and sea turtles and loved her yearly camp outs in Hendy Woods State Park with her extended family. Her wisdom, leadership, and sense of humor will be missed.

In addition to her husband Jeff, son David Schriebman, and daughter Robin Schriebman, she is survived by her sister Jeanne Taylor, and brothers, Dave Webb and Steven Webb. There will be a celebration of Judy's life this coming Spring. In lieu of flowers, donations should be made to the Watershed Alliance of Marin.

MONDAY, NOVEMBER 21, 2022

**Notice of Public Hearing
North Marin Water District****Hearing Topics:**

Proposed Changes to the Facility Reserve Charge (FRC), also known as "connection fee" for the Novato Water, Recycled Water, and West Marin Water Service Areas

Date: December 6, 2022, 6:00 pm

Location: Virtual Meeting

North Marin Water District (NMWD) will hold a public hearing on December 6, 2022 at 6:00 pm by virtual meeting to receive comments on the proposed changes to Facility Reserve Charges (FRCs) as provided in District Regulation 1. The purpose of the FRC, also known as a connection fee, is to collect the estimated reasonable cost of providing access to the water systems capacity for new development or expanded service, based on the estimated cost and value of the system capacity. The proposed changes to the various categories of development or expansion of service were developed in the Facility Reserve Charge Study (FRC Study) prepared by Hildebrand Consulting (2022). The community will be given the opportunity to give input on NMWD's proposed FRC changes in Regulation 1. The FRC Study may be reviewed at <https://nmwd.com/>, Visit <https://nmwd.com/meetings/meetings-2022/> for the NMWD Board meeting agenda and for links to the virtual public hearing.

Oral and written testimony will be taken at the hearing. Written comments may also be submitted to the following address for receipt prior to the hearing:

North Marin Water District
P.O. Box 146
Novato, CA 94948-0146
Phone: (415) 897-4133
info@nmwd.com

6714177 November 21 & 28, 2022

MONDAY, NOVEMBER 28, 2022

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6714177 November 21 & 28, 2022

POINT REYES LIGHT November 23, 2022

Notice of Public Hearing North Marin Water District

Hearing topics:

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North Marin Water District P.O. Box 146 Novato, CA 94948-0146 Phone: (415) 897-4133

info@nmwd.com

Published in the Point Reyes Light, November 23, December 1, 2022.

POINT REYES LIGHT December 1, 2022

Notice of Public Hearing North Marin
Water District

Hearing topics:

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Reserve Charge (FRC), also known
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Published in the Point Reyes Light,

November 23, December 1, 2022.



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November 28, 2022

To: California Conservation Corps


Re: Conservation Corps North Bay Grant Request - LCC Forestry Corps – Wildfire Resilience Grant Program 2022-2023

On behalf of the North Marin Water District, I am writing to offer our support for Conservation Corps North Bay's (CCNB) grant application for the Local Conservation Corps Forestry Corps – Wildfire Resilience Grant Program 2022-2023. The proposed project, the Greater Novato Shaded Fuel Break, includes critical forest health and wildfire prevention work within the wildland-urban interface and urban areas adjacent to North Marin Water District's watershed lands. The proposed project complements multi-benefit fuel reduction and forest restoration work that is being carried out by many local agencies to protect critical water supply infrastructure, which provides drinking water to a suburban population of over 63,000 people situated in and about the City of Novato and several small improvement districts in the West Marin area near the coast.

The Greater Novato Shaded Fuel Break is an important project that is expanding upon and furthering fuel reduction and forest health efforts throughout Marin County. The proposed project will enhance the health and resiliency of the forests around Novato, thereby reducing the risk of devastating wildfires in our community. We view CCNB's project as both complementary to our work and at the same time critical to the protection of the local communities we serve.

We express our full support for CCNB's Greater Novato Shaded Fuel Break project, and request that the California Conservation Corps fully fund the grant request made by CCNB to implement this important project.

Sincerely,


Anthony Williams, General Manager
North Marin Water District

Cc: Mike Swezy (mswezy@novatofire.org)
Tyler Pitts (tpitts@ccnorthbay.org)
Bill Tyler (btyler@novatofire.org)

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CALIFORNIA DEPARTMENT OF WATER RESOURCES

New Report Shows Continued Water Conservation Is Key to Enabling Suppliers to Meet Demand

Published: Nov 28, 2022

SACRAMENTO, Calif. – As directed by 2018 legislation, the Department of Water Resources (DWR) today submitted a first report to the State Water Resources Control Board summarizing how urban water districts assess the adequacy of their supplies over the next seven months. Broadly, the assessments show the importance of conservation by individual Californians to help suppliers meet demands through June 30, 2023.

In this year's assessments, urban water suppliers indicate that they will rely on either continued conservation or more aggressive actions to meet demand through June 30, 2023, if dry conditions persist. They report that they can ensure adequate water supplies through water-saving strategies, such as requiring customers to limit outdoor water and providing leak detection and repair services.

Since 2022 is the first year that urban water suppliers are required to submit an Annual Water Shortage Assessment, this year will serve as a baseline to evaluate if urban water suppliers are accurately assessing their annual water supply and demand. These annual assessments submitted by local agencies are intended to help state and local water suppliers better prepare for current and future droughts.

"One of the lessons learned from the last drought was the importance of early planning and State action to support our water suppliers in preparing for a hotter and drier climate," said DWR Director Karla Nemeth. "Despite ongoing severe drought conditions and a possible fourth dry year ahead, DWR and suppliers are better prepared to continue to supply reliable drinking water to millions of Californians. Actions taken by individual Californians to save water indoors and outdoors make a big collective difference."

With less water available as California shifts to a hotter, drier future, urban water suppliers will be submitting water supply and demand assessments annually as required by the 2018 Making Water Conservation a Way of Life legislation to improve long-term water conservation. The assessments are intended to ensure proper planning at the local level to meet demands and mitigate shortages through water conservation and other actions. The assessments also indicate what level of State assistance may be needed during continued drought.

The DWR report summarizes water supply assessments conducted by 414 of the 435 local urban water suppliers. Twenty-one agencies have not submitted the required assessments. Those required to submit include water suppliers that serve more than 3,000 connections or that supply more than 3,000 acre-feet of potable water annually for municipal purposes. The summary report does not include small water suppliers, which historically have faced more

significant water supply challenges during drought conditions. The State continues to work with small suppliers through direct assistance, grants, and technical support programs.

Of the 414 submitted reports by urban water suppliers:

- 338 urban water suppliers do not expect a shortage during the upcoming year with continued conservation efforts, including a voluntary 15 percent water-use reduction and continued activation of local Level 2 Water Shortage Contingency Plan measures.
- 73 urban water suppliers anticipate they can fully address any shortage through increased conservation actions or increased supplies noted in their water shortage contingency plans, including stronger water-use reduction mandates.
- 3 urban water suppliers noted that they may still experience a shortage after implementing water conservation actions or increased supplies included in their current plans. DWR continues to work with these suppliers to include additional actions to adequately address expected shortages.

To help prepare for drought and water shortage events, urban water suppliers are responsible for developing a water shortage contingency plan. These plans provide a description of the procedures they will employ each year to conduct their annual assessment, including a written decision-making process, as well as the key data inputs and the assessment methodology used to evaluate the near-term water supply reliability. Many suppliers are already implementing Level 2 response actions per Executive Order N-7-22 issued by Governor Newsom earlier this year.

It will be critically important for urban water suppliers to follow their plans and report their water supply situation accurately. This allows state water officials to work with local agencies to find additional supplies and head off potential shortages. The City of Coalinga, for example, submitted a water supply assessment in July that anticipated no water shortages. A few months later, the City announced that it would be out of water by December, largely because it did not implement the actions identified in its Water Shortage Contingency Plan. DWR was able to provide \$1.2 million to the City of Coalinga to fund the purchase of supplemental water to maintain a reliable supply through the winter months. The City has been asked to submit a revised water supply assessment.

To help water suppliers plan more effectively, DWR ordered technical assistance and provided feedback on their water shortage contingency plans. The feedback included proposing more aggressive response actions appropriate to the projected shortage levels and amending the suppliers water shortage contingency plan, if deemed necessary. Some of the water suppliers realized more water savings with additional conservation actions and resubmitted the plan with no shortage expected.

DWR is coordinating with the remaining 21 suppliers who have yet to submit their plans and is currently providing additional targeted help and assistance. DWR reminds delinquent suppliers of the importance of proactively assessing supplies and demands in order to be prepared in case of future shortage events. The full list of delinquent suppliers is available [here](#).

“Thank you to all Californians for stepping up conservation efforts to help reduce water use statewide and to urban water suppliers who are serious about planning for their communities,” Nemeth said. “Coming together like this to conserve will make a big impact for our water future.”

Small water suppliers are receiving support from DWR as it implements Senate Bill 552 (SB 552), which imposes new drought planning requirements on small water suppliers with fewer than 3,000 customers. DWR and the State Water Resources Control Board are hosting a series of informational workshops to explain the new requirements and help small water suppliers develop a water shortage contingency plan and solicit feedback for future resources. For more information about SB 552, visit DWR's SB552 webpage.

This month, DWR will announce funding awards totaling \$86 million for emergency and long-term projects through the Small Community Drought Relief program and the Integrated Regional Water Management program. The selected projects will support strategies to improve water quality, increase water supply, and upgrade aging infrastructure.

For larger communities still in need of assistance, DWR is currently accepting applications for the Urban Community Drought Relief program to support projects that build long-term climate resilience and improve water conservation.

State water officials will provide an overview of the summary report to the media and discuss how the state is taking action to help urban and small suppliers prepare for current and future dry conditions. The media briefing will be held via Zoom at 1 p.m. today. Credentialed media can register at <https://ca-water-gov.zoom.us/meeting/register/tZ0sd-GurTsjGNRiRVZNwk3vXpxreoF7xcQ3>

As California experiences a climate transformation bringing hotter and drier conditions, each individual act of conservation makes a difference. More information and water-saving tips are available at saveourwater.com. For information about other DWR and State of California drought response efforts and funding programs, visit: drought.ca.gov.

Contact:

Allison Armstrong, Information Officer, Public Affairs, Department of Water Resources
916-820-7652 | media@water.ca.gov

November 3, 2022 POINT REYES LIGHT

North Marin Water District's new well is up and running on the Gallagher Ranch, where an underperforming older well left the district dependent on the seawater-tainted Coast Guard wells for its West Marin customers. The new well makes the problematic wells unnecessary most of the time, and has "excellent" water quality, the district said.

NOVATO

Landowner's new push to expand county park

Private funds sought so site could be donated to county



Property owner Jay Garlick waves goodbye to guests after a ribbon-cutting ceremony Thursday at Bowman Canyon Ranch in Novato. Garlick, one of the owners of the ranch property along Novato Boulevard, hopes the property can become a public park. PHOTOS BY ALAN DEP — MARIN INDEPENDENT JOURNAL



A paved path and benches sit along a creek in Bowman Canyon in Novato.

BY WILL HOUSTON

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The owner of Bowman Canyon Ranch near Novato has launched a fundraising campaign to preserve more of the property as a new Marin County park.

The 855-acre ranch just outside city limits has been the focus of negotiations between county officials and property owner Jay Garlick for decades as part of a vision to create a wildlife corridor and open space preserve bordering Novato.

The county purchased 409 acres of the ranch in 2018 and 2020 using \$6 million in Measure A sales tax funds, and the land is now part of the Mount Burdell Open Space Preserve. The county's original intent was to purchase the entire property, but it did not secure enough funding to do so.

On Thursday afternoon, Garlick — now 93 and living in Utah — gathered a group of public officials and business interests at the entrance of the ranch to announce his fundraising campaign. He said he is looking to raise private contributions that he would donate to the county to cover the cost of purchasing another 20 acres of the ranch.

“Hopefully, I’m here when I’m 100 and we’ll have a park right up there,” Garlick told the small crowd on Thursday.

Max Korten, parks director for the county, said it is not involved in the latest effort and that any options would need to be brought before the Board of Supervisors.

“If he did raise the money and wants to donate parts of that property, I think we would definitely consider it and be interested,” Korten said.

Garlick said he hopes to raise enough funding to cover the first acre of land, located at the entrance, before the end of the year. In 2020, Garlick had already completed improvements to the property, including a paved road to a parking area and a stone walkway with benches. Garlick said donors would be able to have their names engraved on the benches.

Among the attendees of the announcement Thursday were Marin County Supervisor Dennis Rodoni; Novato Mayor Eric Lucan, a supervisor-elect; Novato City Councilman Mark Milberg; Novato Chamber of Commerce chief executive Coy Smith; several North Marin Water District officials; and Novato fire Chief Bill Tyler.

“I really do want to thank Jay and his family for really saving this property to make this even possible,” Rodoni told the crowd Thursday. “Holding it as long as he did, being as patient as long as he did to really move forward with the vision I think is really extraordinary.”

Marin Conservation League member and former Novato mayor Susan Stompe also attended the announcement but said she still had questions about the idea.

“It is a beautiful site and could make a lovely park, but I won’t grab my checkbook quite yet,” Stompe said. “Donations are not deductible. Does the county want more maintenance responsibility so close to Stafford Lake Park?”

After Garlick and the partnerships he leads purchased the ranch in the 1970s, they attempted to develop it several times without success. At the time he bought it, the land was zoned such that development would be allowed on lots as small as 7,500 square feet. The land has since been zoned to A-60, which only allows one dwelling for every 60 acres.

Garlick has previously said that he did not fight the rezoning because he believed the property would eventually be annexed by Novato. However, city voters ended that prospect after voting to approve an urban growth boundary in 1997.

In January 2020, Garlick said he and the other partners planned to put the property up for auction after the county was unable to secure funding to purchase the entire property.

But Thursday, Garlick held up a “no trespassing” sign and said he hopes to never see it at the entrance of the property.

“My goal is to do all that I can while I’m still able to get up and go around,” Garlick said.

WEST MARIN

Current affairs

Coho salmon spawners heading upstream after rains



Five coho salmon swim in Lagunitas Creek near the Leo Cronin Fish Viewing Area in Lagunitas on Friday. The Lagunitas Creek coho population has dwindled from the thousands to a few hundred. PHOTOS BY SHERRY LAVARS — MARIN INDEPENDENT JOURNAL



Janet Cavanagh, right, of Vermont looks for coho salmon in Lagunitas Creek on Thursday during a visit with family in Woodacre.

BY WILL HOUSTON

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Marin County residents and visitors can once again watch the natural spectacle of endangered coho salmon making their annual return to their spawning grounds in Lagunitas Creek this winter.

The rainfall this month was enough to signal the red-and-silver salmon to make their way from Tomales Bay — where they have been holding these past weeks — to begin the long journey against the currents of the creek.

“It’s an incredible spectacle to watch these fish leap waterfalls, hear them splash around as they maneuver up shallow riffle and witness the hooked-nose males fight for the opportunity to fertilize the female’s eggs in the nest she builds and protects until death,” said Ayano Hayes, a biologist with the Salmon Protection and Watershed Network, a nonprofit group based in Olema.

Through January, observers can watch coho salmon make their way up Lagunitas, San Geronimo and Redwood creeks at spots such as the Leo T. Cronin Fish Viewing Area, Samuel P. Taylor State Park and Roy’s Riffles in the San Geronimo Valley.

The Lagunitas Creek population of coho is the largest wild population on the coast between Monterey Bay and the Sonoma-Mendocino County border. Every year, adult coho salmon journey from the ocean back to the creeks they were born in to spawn and die.

More than a month later, the next generation of salmon will hatch and live in the creek and its tributaries for about 18 months before making their way to the ocean. After another 18 months, the surviving adults will return to the creek to repeat the ancient cycle.

Once believed to number in the thousands, the population has dwindled to a few hundred at most as a result of habitat loss caused by damming and development. Many of the tributaries the salmon once could access on Lagunitas Creek from Tomales Bay to the headwaters on Mount Tamalpais have been cut off.

“Coho salmon are iconic keystone species that are critically important to protecting redwood ecosystems, by bringing nutrients back from the sea to feed the trees and wildlife of our region that help sequester carbon and help moderate climate change,” said Todd Steiner, SPAWN’s executive director.

To be removed from their federal endangered status, Lagunitas Creek coho must lay at least 1,600 nests for three consecutive winters. In more than 25 years of monitoring, the counts have never reached half that amount.

The largest number of salmon egg nests, known as redds, that have been found since monitoring efforts began in 1997 was 634 in the winter of 2004-2005, according to data collected by the Marin Municipal Water District, the agency tasked with tracking salmon egg numbers in Lagunitas Creek.

Earlier this year, Marin Municipal Water District ecologist Eric Ettlenger said monitoring groups are expecting a sizable run of adult spawners this winter based on the number of young salmon they found in the creek three years earlier.

“I’m looking forward to a lot of adults returning this year,” Ettlenger said this summer.

Coho salmon have not been seen yet in Redwood Creek as the sandbar at the mouth of the creek at Muir Beach has yet to be breached by strong enough flows, said National Park Service fishery biologist Michael Reichmuth. However, park staff has found signs that fish might have made their way into Olema Creek, which is the largest undammed tributary of Lagunitas Creek.

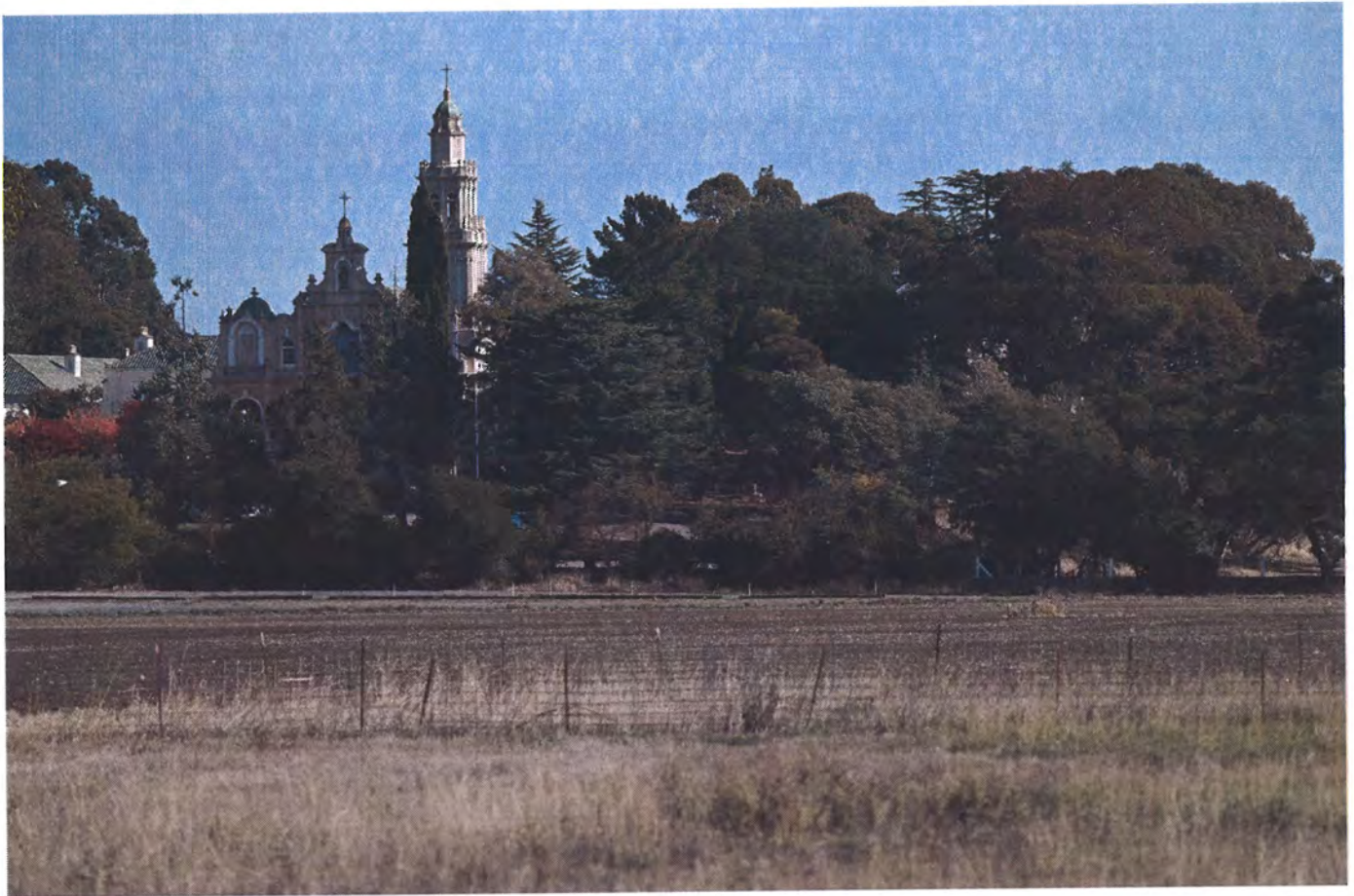
“If we get another storm in soon I think it will open up,” he said. “On Olema Creek, we did a short spawner survey and didn’t see any adult salmon but there were some deep pools that we couldn’t see into and I did see some signs that adult salmon may have made their way into the creek.”

“Since we haven’t had a big storm event to wash the algae off of the rocks in the stream, you can see places where the rocks have been disturbed,” Reichmuth said.

ENVIRONMENTAL IMPACTS

Marin officials pan key housing mandate report

Critics: Study lacks details needed to make decisions



The chapel at St. Vincent's School for Boys rises beyond trees on the school's property in San Rafael. The county has identified three parcels at the campus as areas to allow more housing to meet a state mandate. PHOTOS BY ALAN DEP — MARIN INDEPENDENT JOURNAL



The county has identified a 33-acre parcel near The Jeannette Prandi Children's Center in Lucas Valley to permit new housing to meet a state mandate.

BY RICHARD HALSTEAD

RHALSTEAD@MARINIJ.COM

Marin County officials are expressing frustration with a report designed to evaluate the environmental effects of building thousands of new residences to meet a state housing mandate.

The 700-page environmental impact report analyzes the potential ramifications of additional homes at 79 locations in unincorporated areas. The study considered factors such as aesthetics, air quality, greenhouse gases, historic resources, noise, transportation and utilities.

The state has directed the county to accommodate 3,569 new dwellings in its unincorporated areas by 2031. The county's list of potential housing sites contemplates 5,214 new homes, the number analyzed in the environmental impact report.

The county paid the MIG firm in Berkeley \$1.6 million to prepare the report along with updates to its housing and safety element updates. County supervisors and planning commissioners met Wednesday to discuss the report and take public comment.

The most common type of EIR examines the effects of a specific development project. The new report is a "project" EIR that looks at the changes that would result from all the

proposed sites being developed.

“The EIR identified 15 impacts that are significant and unavoidable,” Rachel Reid, a county planner, told the officials.

These included negative effects on air quality, greenhouse gas emissions, transportation, visual character, water supply and wastewater treatment, noise and tribal resources.

County planners made it clear that officials are free to approve the housing list despite these impacts, and that they will not even be required to adopt alternatives included in the EIR that would reduce the level of the impacts.

“What the EIR doesn’t do is compel the Planning Commission or Board of Supervisors to take any particular action or approve any alternative to the project,” said Sarah Jones, assistant director of the Marin County Community Development Agency.

“The California Environmental Quality Act acknowledges that there might be important reasons to approve a project or adopt a plan that will result in significant impacts,” Jones said.

Commissioner Margot Biehle said, “So we build on sites that are subject to flooding or wildfires or landslides, that have no access to water or sewer service, or have ingress and egress issues. It just seems all a little bananas to me.”

Several officials and members of the public complained that the project EIR is too complex to digest while lacking the amount of detail needed on specific sites and the context of impacts from local municipalities striving to meet their own state housing mandates.

“We can’t really understand the cumulative impacts because we’re only looking at the projects within our jurisdiction,” said Christina Desser, a planning commissioner. “It’s a very frustrating and expensive process that isn’t going to give useful information.”

The EIR presents three alternatives to reduce the project’s impacts. One, a no project alternative, is considered a non-starter because it would make it impossible for the county to comply with its state housing mandates. The other alternatives appear to present viable options.

The second alternative would reduce air pollution by cutting the number of vehicle miles traveled, or VMT. It would achieve this by reducing the number of remote housing sites in West Marin and locating most of the proposed housing sites within about a 2-mile radius of the Highway 101 corridor, or half a mile on either side of Sir Francis Drake Boulevard.

While VMT, air quality and greenhouse gas effects would remain significant and unavoidable, the second alternative would reduce the impacts by 10% to 15%.

The third alternative would address the significant and unavoidable impacts on water and wastewater treatment in the districts of service providers that lack the ability to accommodate the amount of development proposed.

The EIR notes that North Marin Water District is under an emergency water conservation ordinance that prohibits new water service connections except under limited conditions, and Bolinas Community Public Utility District has had a moratorium on new water connections in effect since 1971.

In addition, Bolinas has a moratorium on new sewer connections that has been in effect since 1985, and the Tomales Village Community Services District lacks a treatment plant capacity to serve new development.

The third alternative would relocate housing sites from service districts that lack capacity to serve new development to areas closer to the “city-centered/baylands corridor,” where water and wastewater service providers have greater capacity.

The third alternative would eliminate the significant and unavoidable impacts to water and wastewater service providers that lack capacity. Nevertheless, the EIR identified the second alternative as the superior option because it would reduce more impacts.

Both the second and third options identify the same three sites already on the list as being the most likely places to shift more housing. Those are a 33-acre parcel at 2 Jeannette Prandi Way near Marin County Juvenile Hall in Lucas Valley; two parcels totaling about 234 acres owned by the Buck Institute for Research on Aging in Novato; and three parcels totaling about 315 acres at the St. Vincent’s School for Boys property.

Under the second alternative, 479 dwellings would have to be shifted to other locations already included in the housing element. That would include 50 residences slated for a site at San Domenico School and 50 at the former U.S. Coast Guard property in Point Reyes Station.

The third alternative would require relocating 896 dwellings. The larger of the two Buck parcels would account for 225 homes. Other sizable sites requiring relocation under this option in the Novato area would include 300 Olive Ave., 58 homes; 805 Atherton Ave., 55 homes; and 791 Atherton Ave., 55 homes. In Point Reyes Station, it would involve 50 homes at 100 Commodore Webster Drive.

“What I was looking for in the EIR and didn’t find is enough information to be able to make some judgment about shifting sites around in the alternatives,” said Don Dickenson, a planning commissioner.

Dickenson cited a number of substantive errors in the report related to individual sites. Some officials at the meeting floated the idea of combining the second and third alternatives.

Dickenson said that the county’s 1st District, which includes Marinwood and Lucas Valley, could end up with as many as 3,000 new dwellings if the homes recommended

for relocation under the two options were added to the housing already slated for the district.

Dickenson said the EIR's assessment of service impacts to the 1st District, particularly to school districts, is inadequate.

"I would find it very difficult to make an informed decision based on the limited information that is actually in the EIR," he said.

About a dozen people spoke during the public comment portion of the meeting. Many echoed the comments made by officials.

"We're going to have to build new schools," said Marinwood resident Stephen Nestel. "The communitywide impacts really need to be discussed."

Susan Morgan of Lucas Valley said, "I found the EIR nearly incomprehensible. It gives us no information about some of the things we're very concerned about. For me personally, and I think many people, fire evacuation is a huge concern."

Ted von Glaun of Lucas Valley said, "When you write an EIR at a program level, see you later. It may meet the letter of the law, but it doesn't meet the spirit."

Ken Levin said, "If more people in our communities understood what is being said, you'd be hearing more comments."

Supervisors Katie Rice and Damon Connolly were absent.

The Board of Supervisors will meet Dec. 6 to decide whether to implement any alternatives or certify the project as is.

MONTEREY BAY

California Coastal Commission approves new desalination plant



The CEMEX plant in Marina in 2015. The California Coastal Commission approved plans to construct a desalination facility on the site of the sand plant, which closed in 2021. VERN FISHER — MONTEREY HERALD, FILE

BY PAUL ROGERS

BAY AREA NEWS GROUP

Following a decade of debates and political battles, the California Coastal Commission has approved a plan to build the largest ocean desalination plant ever built in Northern California.

The project, proposed at the site of a former sand mining plant on the Monterey Bay shoreline near the town of Marina in northern Monterey County, would be just one-tenth the size of the nation's largest desalination plant, built in 2015 in Carlsbad, near San Diego.

But it would provide 4.8 million gallons a day of drinking water from the ocean — about 35% of the water supply for Monterey, Carmel, Pacific Grove and surrounding communities — many of which have suffered under water shortages for the past 25 years.

After a 12-hour public hearing in Salinas with more than 300 people testifying, the Coastal Commission voted 8-2 late Thursday night to approve the plan, which was supported by Gov. Gavin Newsom.

“We have a building moratorium. We have water rationing,” said Josh Stratton, a spokesman for California American Water, a private company that proposed the plant and which provides water to about 100,000 people in the Monterey Peninsula area. “There are multiple housing projects that haven’t gone forward. We already have some of the lowest per-capita water consumption in the state. This is critically needed.”

But opponents launched a passionate and sustained effort to kill it. They noted that under Cal-Am’s own projections, the project would increase water bills by 50% a month, adding about \$50 to the average bill.

Critics included environmental groups and some local elected officials, particularly from the city of Marina, which has far more minority and low-income households than famously wealthy nearby communities like Pebble Beach and Carmel. They noted that Marina would get none of the water from the project since it isn’t served by Cal-Am Water.

“The water will be obscenely expensive,” said Melodie Chrislock, director of Public Water Now, a non-profit group that has been pushing for a public takeover of Cal-Am. “And it’s not fair to put it in Marina. They don’t get a drop of the water and they get all the environmental impacts.”

Cal-Am estimated the cost of the plant at about \$330 million, but that estimate is several years old.

In the Coastal Commission’s staff report, the water’s cost was estimated at roughly \$6,000 an acre foot. An acre foot, or 325,851 gallons, is enough water for two families of four for a year.

That cost is several times the price of water from other desalination plants, like the Carlsbad plant, which typically runs about \$2,500 an acre foot, and more than three times the price of recycled water.

Critics say there’s a better approach: Continue to expand Pure Water Monterey, an advanced water recycling project run by the Monterey Peninsula Water Management District and Monterey One Water, the area’s wastewater operator, that recycles wastewater and puts it into underground aquifers.

“Building desal now is premature. It locks the Monterey Peninsula into an expensive solution.” said Mandy Sackett, California policy director for the Surfrider Foundation,

an environmental group.

Supporters countered, however, that the water recycling project and groundwater wells in general were important, but not as “drought-proof” as the desalination project, given that underground water basins in the area have problems with sea water intrusion and also demands from farmers.

They also noted the desalination project would have little impact on wildlife. The plan is to drill up to seven slant wells 200 feet under the sea floor and slowly draw out ocean water through the sand. The wells would be based at the former CEMEX sand mining plant, which operated on the beach near Marina since 1906 and closed last year. Their pads and electrical equipment would take up 1 acre.

The seawater would be piped about two miles east to a desalination plant that would be constructed next to an existing wastewater treatment plant. The water would be piped to nearby cities. And the leftover brine would be blended with treated wastewater to get its salinity back to ocean water levels and released into the ocean through an existing pipe that empties two miles offshore into Monterey Bay.

California has been in a severe drought for 8 of the last 11 years. With climate change, Newsom has said that the state needs to expand its water supply by building more off-stream reservoirs, water recycling plants, stormwater capture projects and desalination plants.

The Monterey area has had a severe water shortage since 1995, when state regulators said Cal-Am was taking three times as much water from the Carmel River as it had rights to, and ordered cuts. Voters rejected plans for a new dam on the Carmel River, and several other desalination projects were proposed but never built.

There are 12 ocean desalination plants in California now. But most are small and serve military bases, power plants and other facilities, like the Monterey Bay Aquarium.

RESPIRATORY CASES

Squeeze on Marin medical system

Facilities strained from seasonal virus surge

BY RICHARD HALSTEAD

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The number of COVID-19 cases in Marin is continuing to hold steady but two seasonal illnesses are surging and placing a strain on the county's medical system.

Earlier this month, pediatricians and hospitals in Marin reported an earlier-than-normal surge of respiratory syncytial virus, a seasonal menace that can pose serious risk to infants and seniors.

Dr. Matt Willis, Marin County's public health officer, said Tuesday that since then, "The overall situation has actually worsened in terms of a winter virus surge.

"We're now starting to see adults with respiratory symptoms in emergency departments alongside children with respiratory symptoms," Willis said. "With kids it tends to be more RSV; with the adults it's more often the flu." The resulting crush in emergency rooms has already forced some hospitals in San Francisco to set up alternative care units for respiratory patients in tents, Willis said.

Most people will experience RSV as a common cold. But for children less than 6 months old and adults aged 80 and older, RSV can be life-threatening. It can develop into lung infections such as pneumonia and bronchiolitis. In serious cases, young children need to be treated in a pediatric intensive care unit.

Because none of Marin's three hospitals has a pediatric intensive care unit, that means children sometimes need to be transferred out of county. Hospitals with pediatric intensive care in San Francisco, however, have been filling up.

"There have been a couple of occasions in Marin where a child has had to board overnight in the emergency department just waiting for a bed to become available," Willis said.

He said hospitals with pediatric intensive care units have expanded their capacity in response to the demand. The hospitals have moved teenage and adolescent patients to adult wards and had emergency room staff who are trained to treat children oversee pediatric patients in the main hospital.

It is suspected that the spike in RSV and flu cases is due to precautions taken to stop the spread of COVID-19, such as mask wearing and sheltering. In addition to suppressing the spread of the coronavirus, the precautions temporarily reduced the number of people contracting other respiratory viruses.

Now that safeguards have been reduced or removed, the viruses are making up for lost time thanks to a large pool of previously uninfected hosts.

Statewide, COVID is on the rise again. And it's rising faster in the Bay Area than the rest of the state.

"The simplest way to say it is that in every category that we track, whether it's test positivity, case rate numbers, wastewater surveillance, clinical surveillance, hospitalizations, we are seeing increases for RSV and COVID," said Dr. Mark Ghaly, secretary of the California Health and Human Services Agency. Flu is also at moderate or high levels in most of the state, according to the most recent weekly report.

Willis said that while it is too early to be certain, it appears the rise in new RSV cases may be leveling off in the county. He spoke with Marin hospitals and pediatric providers Tuesday.

"They are still seeing high numbers of kids, but no more than they were last week," Willis said.

One clinic told the public health officer that they had their highest daily number of pediatric visits a week and half ago, but hadn't reached that level since. Another positive sign is that the amount of RSV detected in Marin wastewater has remained stable recently.

Using wastewater testing as a gauge, however, the surge in influenza cases may just be beginning. Willis said the amount of flu virus in Marin's wastewater is 23 times higher than it was a month ago.

"When we see virus rise in wastewater, we brace ourselves for what will be coming into the clinics," Willis said.

So far there is no sign of a winter surge in COVID-19 cases, although Marin is continuing to see significant transmission rates.

"We have on average about 30 new cases per day," Willis said. "That has been relatively stable now for a few weeks."

Currently, no single coronavirus subvariant is dominant in Marin. A soup of subvariants are circulating, including the BQ.1 subvariant, currently dominating in the eastern United States.

Willis said the vaccines available for COVID-19 and the flu are good matches for the strains circulating in Marin. He said given the proximity to the winter holidays when

people will be socializing indoors and the strain on hospitals, it is particularly important that people get vaccinated for both COVID-19 and the flu.

Any adult experiencing cold symptoms should avoid interacting with children due to the prevalence of RSV. Anyone holding a baby should wash their hands thoroughly before doing so, Willis said.

He recommends taking a rapid antigen test for COVID-19 the day before and the day of indoor gatherings, especially if the event will include a grandparent or anyone at high risk of severe illness should they become infected. Wearing a high-quality face mask during large indoor gatherings is one of the best methods of preventing transmission.

Parents with children experiencing mild cold symptoms should seek medical advice over the phone or schedule a video appointment with a doctor rather than rushing to a clinic or emergency room, Willis said.

Utility: Housing to strain system

Water managers send warning on state edict

BY RICHARD HALSTEAD

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Managers at the North Marin Water District are cautioning that the cost of building water supply infrastructure necessary to accommodate new housing mandated by the state could make some of the housing infeasible.

The warning is contained in a letter commenting on a report that evaluates the environmental impacts of building 3,569 new dwellings in Marin's unincorporated areas from 2023 to 2031 as ordered by the state.

The environmental impact report (EIR), which is scheduled for certification by county supervisors and planning commissioners in January, identifies 15 effects that are significant and unavoidable. In addition to water supply, the impacts include air quality, greenhouse gas emissions, transportation, visual character, wastewater treatment, noise and tribal resources.

"Some housing sites identified in the proposed Housing Element Update would require substantial infrastructure improvements (e.g., utility pipelines, pump stations, water tanks, expanded wastewater treatment plants), the construction of which would cause environmental impacts," the report says. In its letter, the North Marin Water District wrote that the district "generally does not have distribution infrastructure in place for areas north of the city of Novato limits."

"New housing development proposed north of this extent will require substantial distribution infrastructure to be constructed to allow water service by NMWD," the letter said.

The letter stated that infrastructure needs identified in the EIR "carry approximate costs upwards of several million dollars, which may be cost prohibitive for the size of developments being proposed."

For example, the letter notes that at a site owned by the Buck Institute for Research on Aging north of Novato where some 250 residences are proposed, it would be necessary to build a 400,000-gallon, stainless steel storage tank that would measure 45 feet in diameter and stand 35 feet tall.

The tank would be installed on the eastern slope of Mount Burdell and would be situated about 110 feet higher than the highest existing structure.

The letter also states that a 200,000-gallon tank with a diameter of 35 feet and standing 35 feet tall would need to be constructed on the Cherry Hill Ridge line to provide water to 147 dwellings proposed along Atherton Avenue.

Language in the EIR seems to acknowledge the problem. "It is also possible that the necessary infrastructure improvements would affect the economic feasibility of housing construction on these sites, and therefore reduce the likelihood of their development," the report says.

The EIR includes two project alternatives, one of which is designed to mitigate impacts on water and wastewater service providers that lack the capacity to serve the level of new development proposed.

The EIR notes that the North Marin Water District is under an emergency water conservation ordinance that prohibits new water service connections except under limited conditions, and that the Bolinas Community Public Utility District has had a moratorium on new water connections in effect since 1971.

The alternative proposes relocating housing sites from areas served by NMWD to areas in the city-centered/baylands corridor, which the EIR states are served by Marin Municipal Water District. The North Marin letter, however, contains additional information that casts doubt on the effectiveness of such a strategy.

The EIR states that the Marin Municipal Water District serves cities and towns along the county's city-centered corridor from the Golden Gate Bridge to the southern border of Novato and that North Marin provides service to Novato and parts of West Marin.

However, Eric Miller, North Marin's assistant general manager, said the district attempted to point out in its letter that the district's service area extends further south than indicated in the EIR and includes adjacent unincorporated areas of the county.

Don Dickenson, a county planning commissioner, raised this issue when the Board of Supervisors and the Planning Commission held a joint public meeting to discuss the EIR on Nov. 16.

"The EIR seems to miss the fact that while the Sonoma County water tie is significant for North Marin, 25% of the MMWD water comes from the Sonoma County water tie," Dickenson said.

"All of the service connections north of Puerto Suello Hill get their water from Sonoma County because of the way the piping system is set up," Dickenson added. "That doesn't seem to be clear in the water section of the EIR. The same issues that apply to NMWD also apply to a lesser degree to MMWD."

Adriane Mertens, a spokeswoman for the Marin Municipal Water District, said, “The amount of water the district receives from Sonoma County Water Agency fluctuates depending on conditions and time of year. Under normal conditions, it can be between 20% to 25% of our daily total water supply.”

Mertens added that the estimate assumes dry conditions. She wrote that during times when more water is available, such as wet winters, MMWD might get as much as 80% to 90% of its water from Sonoma.

Both of the project alternatives contained in the EIR recommend relocating housing sites to three locations: a 33-acre parcel at 2 Jeannette Prandi Way in Lucas Valley near Marin County Juvenile Hall; two parcels totaling about 234 acres in the Novato area along Redwood Highway, which are owned by the Buck Institute for Research on Aging; and three parcels totaling about 315 acres at the St. Vincent’s School for Boys site in San Rafael.

It is unclear whether these sites would be any less reliant on Sonoma County water than the sites currently recommended for housing.

“I understand that for those sites that may not have adequate water in west Marin the option is to move them to east Marin and assume that MMWD will be able to provide the water,” Supervisor Stephanie Moulton-Peters said.

“That is a concern that MMWD is being asked to provide additional service to cities and towns along the 101 corridor,” she said. “Have they weighed in on whether there is adequate water to accommodate additional units being moved from West Marin?”

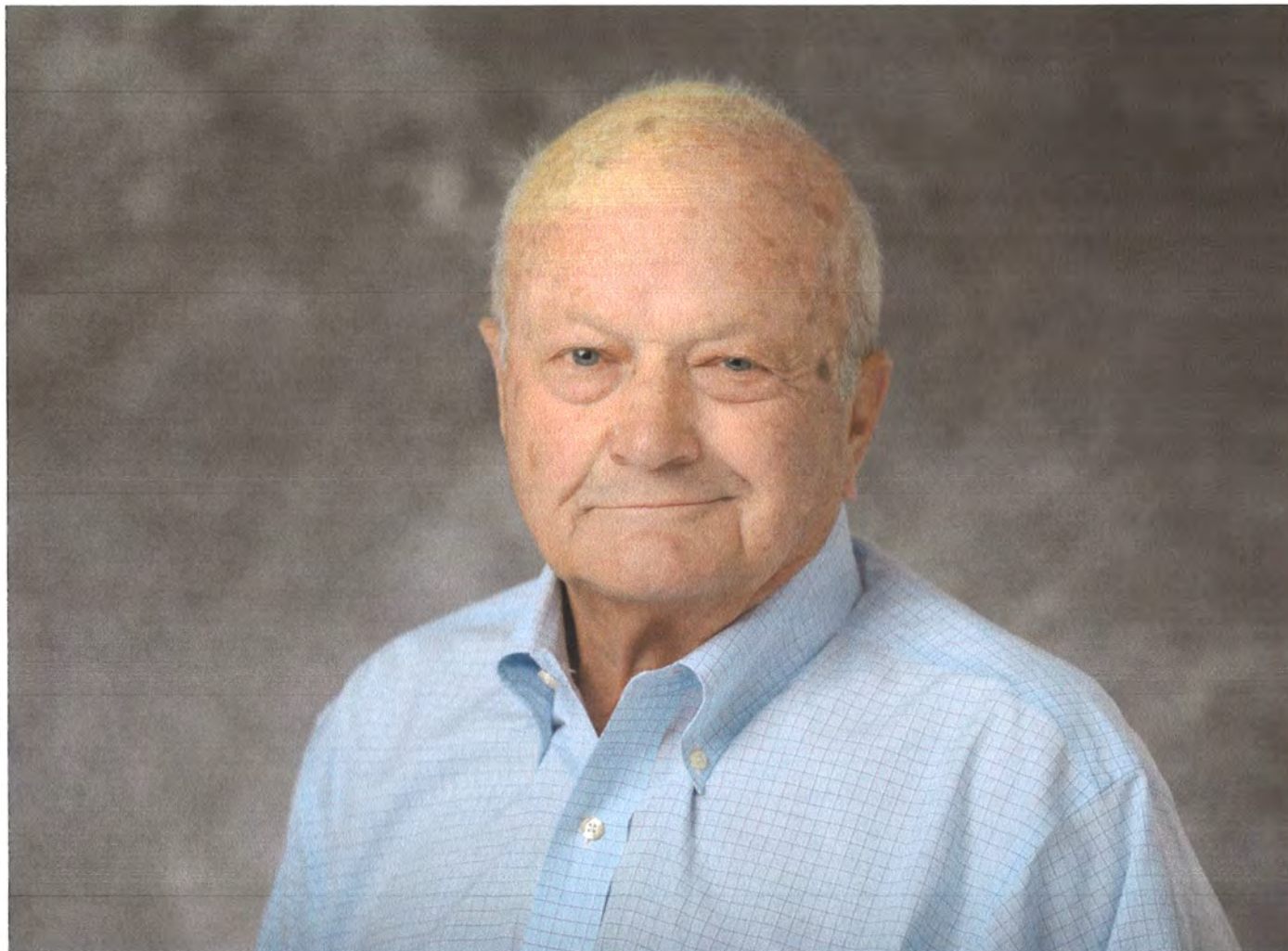
None of the county planners participating in the meeting responded to Moulton-Peters’ question.

Mertens said MMWD has submitted no comments for the impact report.

Sara Jones, assistant director of the Marin County Community Development Agency, said, “We’ll be addressing all the comments in the final EIR, including the MMWD and NMWD water supply issues.”

“The cost of infrastructure is going to be a consideration for Marin regardless of housing development, since there are needs just to serve existing residents,” Jones wrote, “but it will also come into play for developers calculating the feasibility of projects in Marin.”

Utility to appoint successor to seat of late director



Grossi

BY WILL HOUSTON

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The North Marin Water District is preparing to appoint a new board member to succeed James Grossi Jr., a director who died this month.

Grossi died following an illness on Nov. 4, one day after his birthday, according to a family obituary. He was 76.

An engineer and West Marin rancher, Grossi was appointed to the North Marin Water District board in 2017 and elected in 2018 to a four-year term. He was set to begin

another four-year term in 2023 after running unopposed in the Nov. 8 election.

The district board had the option to hold a special election to fill the vacancy for the Division 1 seat or appoint someone to fill the seat until the next general election in November 2024. Last week, the board chose to appoint a successor, according to Tony Williams, the district's general manager.

The district board plans to hold a public hearing on Dec. 13 to review applicants, conduct interviews and potentially select Grossi's successor.

Mike Joly, a board member who joined the district around the same time as Grossi, lauded Grossi's history of community service that went well beyond the water district.

"The Grossi family name is one embedded into the history of the ranching community and Novato," Joly said. "It's a strong and powerful legacy and one committed to service. That's really what it's all about, using the skills for the betterment of all of us in the community."

"I always found him to be open, practical, empathic and solutions-based," Joly said. "We're just the poorer for his passage but we're richer for his having him been among us."

Grossi was born in Petaluma in 1946 and grew up on Marindale Ranch in West Marin, according to his obituary. The ranch was purchased by his grandfather in 1917. After school, Grossi returned to Novato in 1976 and built his permanent home on the family ranch where he and his wife Michelle raised their two children, James III and Dana.

In addition to his decades of engineering work, Grossi held leadership roles in several private and public entities.

He served as board president for Halleck Creek Ranch, a founding member of the Bank of Petaluma, a 40-year Lincoln Union School board member, a 14-year member of the Sonoma-Marin Fair's 4th District Agricultural Association governing board, a member of the Marin County Flood Zone Advisory board, president of the Bank of Marin's advisory board, and a member of the College of Marin Citizens Bond Oversight Committee.

Grossi's family is requesting that donations in his honor be sent to Halleck Creek Ranch at halleckcreekranch.org or to the Petaluma chapter of the Future Farmers of America at Petaluma High School, 201 Fair St.

CORONAVIRUS

State outlook mixed for winter COVID-19 wave

BY RONG-GONG LIN II AND LUKE MONEY

LOS ANGELES TIMES

LOS ANGELES >> For the last two years, Thanksgiving served as a sobering reminder of the COVID-19 pandemic's staying power.

For each, the holiday essentially marked the turbocharged start of the severe fall-and-winter COVID-19 wave, which both resulted in the deadliest surges of the pandemic, killing thousands of Americans a day.

But there's some guarded optimism that this winter might be different — or at least not as bad as the 2020 and 2021 surges.

"You never can definitively say what to expect," said Dr. Anthony Fauci, President Joe Biden's outgoing chief medical adviser for the pandemic. "But you should really take some comfort in knowing that we have within our wherewithal to mitigate anything that comes up our way."

Some of the advantages we have this year is an updated COVID-19 booster shot that's pretty well matched to the circulating strains of the coronavirus, ample supplies of at-home rapid tests, and general awareness of steps we can take to avoid illness, including masking up in indoor public settings, staying home when sick, and improving air flow by taking events outdoors, opening windows and turning up air filtration units.

When it comes to gatherings now, "I think there's ways that we can really improve how we do it, rather than spend our time talking about whether we should or shouldn't," said California Health and Human Services Secretary Dr. Mark Ghaly.

There's even some promising news about the unrelenting emergence of coronavirus subvariants, none of which has dramatically raised alarm bells the same way the original omicron strain did when it stormed onto the world stage last Thanksgiving.

One note of optimism comes from Singapore, which recently experienced a big wave in coronavirus cases fueled by the omicron subvariant XBB, a recombinant of the sublineages BA.2.10.1 and BA.2.75. XBB has generated concern that vaccines may not be as effective against it.

“They had [an] increase in cases, but they did not have a concomitant major increase in hospitalizations,” Fauci said Tuesday. “So we’re hoping that a combination of people who’ve been infected and boosted and vaccinated — or people who’ve been vaccinated and boosted and not infected — that there’s enough community protection that we’re not going to see a repeat of what we saw last year at this time.”

Two other omicron subvariants, BQ.1 and BQ.1.1, accounted for about 57% of estimated coronavirus cases for the most recent week available, according to data from the U.S. Centers for Disease Control and Prevention. Both are descendants of BA.5 — a long-dominant strain that fueled a surge this summer.

But some experts who had previously warned about the rise of new omicron subvariants say the latest data appear reassuring for now. New York state, for instance, has the highest proportion of BQ.1.1 in the nation — yet there is no sign of hospital admissions likewise increasing, said Dr. Eric Topol, director of the Scripps Research Translational Institute in La Jolla.

In California, however, coronavirus-positive hospitalizations have been increasing. As of Wednesday, there were 2,782 coronavirus-positive patients in hospitals, up 84% from the autumn low of 1,514 on Oct. 24. This summer’s peak was 4,843, set on July 26, and last winter’s peak was 15,435, set on Jan. 21. The all-time high, 21,938, was set during the first pandemic winter on Jan. 6, 2021, and the all-time summer high was 8,353, set on Aug. 31, 2021.

Nationally, hundreds of Americans are still dying every day of COVID-19, which remains a leading cause of death. And there are signs that transmission is once again on the upswing.

Los Angeles County is averaging 2,337 coronavirus cases a day for the week that ended Friday, up 32% from the previous week. On a per capita basis, L.A. County is seeing 142 cases a week for every 100,000 residents. A rate of 100 or greater is considered high.

L.A. County’s coronavirus case rate has been climbing since mid-October, when it hit an autumn low of 60 cases a week for every 100,000 residents. The latest case rate is the highest it has been since Labor Day.

California is recording 95 coronavirus cases a week for every 100,000 residents for the seven-day period that ended Tuesday. The state’s rate climbed 16% over the previous week.

Estimates suggest the share of admitted coronavirus-positive patients statewide who are in the hospital due to COVID-19 illness has remained relatively stable, at around 45%, since April. The other patients are being treated for issues not related to COVID-19.

BQ.1.1 has been concerning because of assessments that it was “one of the most immune-evasive SARS-CoV-2 variants yet seen,” Topol wrote in a blog post, including

“resistance to all available monoclonal antibodies,” referring to medicine that can help treat coronavirus-infected patients or prevent infection.

“This is the first time in the pandemic that a variant with clear-cut, marked immune evasion has not induced a major new wave,” Topol wrote. By contrast, several of the Omicron subvariants that became household names, like the original version, and then BA.2 and BA.5, “led to major waves globally.”

It could be that cumulative immunity is now having an effect against the latest strains.

“Under pressure from prior infections, vaccinations, boosters and combinations of these, the virus is having a harder time finding new hosts,” Topol said. “To date, BQ.1.1 has not been able to induce a new wave in two countries, a very positive sign.”

The optimism doesn’t mean that “we’re out of the woods,” Topol said. And it’s not to say that the rise of BQ.1.1 is without consequence.

Already, the variant has rendered monoclonal antibodies intended to be used as medicine to treat or prevent COVID-19 effectively useless. UC San Francisco said it is discontinuing administration of bebtelovimab and Evusheld due to “a rapid increase in circulation of Omicron subvariants predicted to have resistance” against the drugs. Paxlovid, an antiviral oral medication, continues to be an effective treatment against COVID-19.

The rate at which the coronavirus is mutating has risen by 30% in the last year, Topol added, so there’s still room for omicron “to pose a significant threat.” And there’s still the possibility that problematic variants could emerge in the future.

Much of the optimism surrounding this fall and winter stems from the availability of updated COVID-19 booster shots. show that the updated COVID-19 vaccines offer “significant additional protection” against symptomatic infection in people who were previously vaccinated or boosted with the older formulation.

“Everybody was asking the question, ‘Where’s the clinical efficacy data?’ Now it has come out with the CDC [report] this morning,” Fauci said. “We know that it is effective.”

However, uptake of those doses has been slow out of the gate.

Statewide, about 16% of eligible residents have gotten the updated booster.

“We have seen very low uptake of the bivalent booster,” Ghaly said recently. “I know I have conversations every day with Californians asking whether they should get it, whether now is the right time. And it’s a resounding yes.”

The coronavirus is also not the only game in town heading into this winter. Flu is surging at a level not seen in years, and RSV is continuing to stress children’s hospitals across California. Regarding the flu, though, this season’s vaccine appears also well matched to the currently circulating strains.

Nationally, hospitalization rates related to RSV — or respiratory syncytial virus — are exceptionally high, said Dr. Theodore Ruel, chief of UC San Francisco's pediatric infectious diseases and global health division.

RSV also continues to stretch the available emergency room capacity at Children's Hospital Los Angeles, meaning the facility cannot always accommodate patient transfers from elsewhere. The primary pediatric hospital in Orange County is observing a high number of emergency room visits daily, according to the county's Health Care Agency.

Distributed by Tribune News Service

Dry years pose rising risk for ecosystems, rural areas



Ethan Bowles of Hefner and Drew Well Drilling operates a well-drilling rig in September at a home in Madera County, where many wells have gone dry this year. TERRY CHEA — THE ASSOCIATED PRESS

BY DORANY PINEDA

LOS ANGELES TIMES

LOS ANGELES >> Drought, human-caused climate change, invasive species and a “legacy” of environmental issues are permanently altering California’s landscape and placing some communities and ecosystems at increasing risk, a panel of experts told water officials recently.

Invasive species and decades of disruptions from massive land and water developments are partly responsible for a continuous decline in native California species, experts told the California Water Commission on Nov. 16. Also, rural communities, many of whom

are and rely on privately owned wells, are disproportionately contending with water contamination and scarcity amid recurring cycles of drought, experts said.

Although droughts in California date back to prehistoric times, the state's modern-day water issues are the repercussions of decades of decisions, said Jay Lund, professor of civil and environmental engineering at the University of California, Davis.

"A lot of our environmental problems today are really legacies," he said. We are witnessing "the dynamics of past impacts and past changes playing themselves out and our inability — both in terms of regulatory policy and economically, and practically in some cases with some invasive species — to manage that playing out of legacy impacts."

Groundwater and the Sacramento-San Joaquin River Delta are also among the sectors most vulnerable to dry periods, according to Lund, who emphasized that although cities and agriculture are relatively prepared and well-insulated from drought impacts, irrigated agriculture needs to shrink between half a million to 2 million acres to be sustainable.

About 5.5 million of California's nearly 40 million residents live in rural counties, which comprise more than half of the state's land mass. While urban areas like Los Angeles are under and Central Coast.

"We know that these challenges disproportionately impact low-income and Latino communities," said Justine Massey, policy manager and attorney for the Community Water Center. "People relying on private wells in particular are significantly impacted because often they don't know if their water is safe to drink since there's no other entity doing water testing, and they're also not aware until they start experiencing issues with pumping that they may be nearing water levels that will render their well not working."

While state legislation like the Sustainable Groundwater Management Act are meant to and will help mitigate water scarcity in an increasingly arid California, thousands of people and delicate ecosystems will fall through the cracks.

A 2020 study commissioned by the Water Foundation found that under SGMA's minimum water threshold plans, between 4,000 and 12,000 wells will partially or completely dry out by 2040 just in the San Joaquin Valley — affecting roughly 46,000 to 127,000 Californians who may lose access to their current water supply.

"We really urge all decision-makers involved ... to look at the worst-case scenarios and really plan for that, because that's what we're experiencing so far — worst case after worst case after worst case," Massey said. "And the folks who are most impacted are the ones who least contributed to the problem."

is increasingly being recognized as a "threat multiplier" that will accelerate and aggravate instability and insecurity around the world. In a drought-stricken California,

as groundwater levels drop because of less rain and over pumping, concentrations of contaminants in water increase, Massey said.

The current and future health of California's ecosystems is also on the line.

Mild, short-term impacts of drought can result in reduced plant growth, but when dry periods are longer and harsher and depletion is more severe, widespread mortality of habitats and species can occur, said Melissa M. Rohde, principal of Rohde Environmental Consulting, LLC.

"If groundwater demand is high, groundwater can quickly become out of reach from plant roots and rivers because these ecosystems rely on shallow groundwater," she said.

Rhode referenced the Nature Conservancy's , which found that 44% of ecosystems statewide have been impacted by a significant, long-term decline in groundwater between 1985 and 2019. "We also found that groundwater levels declines have intensified during the most recent two decades," she said.

Under SGMA, 87% of ecosystems and 40% of wells dependent on groundwater exist outside of the legislation, Rhode said, and "one of the biggest disconcerting aspects of this is that ... these ecosystems are often times the last refugia for federal and state threatened and endangered species. They're very important biological hotspots, and if we're not doing what we can to protect them under SGMA, we are not safeguarding our most vulnerable species."

Drought conditions and extreme heat fueled by climate change have also pushed the to the brink of extinction.

The fish — which once swam upstream the Sacramento River to spawn in its chilly waters before the Shasta Dam's completion in 1945 — has struggled to survive even with government intervention. Last year, the water flowing from Shasta Dam was so warm that most of the eggs and young salmon died.

Wildfires, drought and bark beetle infestations are also destroying the forests of the , which could have dire consequences for protected species like spotted owls and Pacific fishers that depend on mature tree canopies for their habitats.

But refusing to accept these changes is pointless, Lund said. "Resistance is futile. We're going to have a future that's going to be different," and learning to reconcile our ecosystems with human activity will be an ongoing challenge. "How do you manage your native species when everything else is changing is going to be a big conundrum for all of our agencies and all the people trying to do this," he said.

So what can we do about it? For ecosystems, integrating them into water policies, identifying ecological oases and managing groundwater to ensure species have access to it during droughts will be critical, Rhode said.

As for rural communities, Lund suggested we look at how and why urban and agricultural spaces have responded more effectively to drought: their missions are focused; they have reliable funding sources; they have organized authority and expertise; and they have accountability via voters, regulators and ratepayers.

“The state has the responsibility to make sure that drinking water needs are protected and not waved away as a cost of business or set aside as something that’s too difficult or inconvenient to address,” Massey said.

“Climate change is testing and surpassing our limits and our normal flexibility,” she added. “The margin of error becomes tighter and tighter. That margin of error is already extremely thin, and what’s on the line is Californians’ access to a life-giving resource.”

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THE COUNTY

Weather outlook for Marin turns wet and colder

BY WILL HOUSTON

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Marin County is expected to receive a dose of winter weather this week with as much as 3 inches of rain falling and temperatures dropping to the mid-30s, according to the National Weather Service.

Forecasts show that rainfall beginning late Wednesday evening through Thursday could dump as much as 3 inches of rain on Mount Tamalpais, with inland areas of the county receiving about 1 to 2 inches.

“So probably seeing more rainfall compared to what we have been seeing for Marin County,” said National Weather Service meteorologist Sarah McCorkle.

Early forecasts show Marin could receive more rainfall over the weekend, though likely less compared to Thursday’s storm, McCorkle said.

Communities should expect to see the type of flooding on roads and low-lying areas that would typically occur during smaller winter storms, she said.

Temperatures are also expected to drop as low as the mid-30s and low 40s beginning Tuesday, with Tuesday morning and Wednesday morning expected to be the coldest of the week, according to McCorkle.

“The closer you get to Petaluma will be the places that will be the coldest,” said McCorkle, adding that Novato is expected to reach a low of 36 degrees on Wednesday.

Local water suppliers do not expect this week’s rainfall to have a significant impact on reservoirs, though it could help soak the landscape for any storms that will provide a larger storage boost.

The Marin Municipal Water District has slightly above-average storage levels in its seven reservoirs in the Mount Tamalpais watershed for this time of year. The reservoirs were at nearly 68% of capacity as of Monday, slightly above the 66% average.

The upcoming rain could help to bring the district closer to average rainfall. The district has recorded 4 inches of rain at its Lake Lagunitas gauge since July 1, which is below the 8 inches it normally has for this time of year. While the rain could provide a

small increase to local reservoir levels, a series of larger storms will be needed this winter to make any significant gains in storage levels.

The North Marin Water District, which serves the greater Novato area and parts of West Marin, also is not expecting to see much in the way of storage increases at its Stafford Lake reservoir near Novato. The lake provides 25% of the district's water supply and is primarily used during the summer months. The majority of the district's water supply comes from Russian River imports from Sonoma County.

Stafford Lake was 37% full as of Monday, above the average storage of 33% for this time of year, according to Tony Williams, the district's general manager.

Typically about 8 inches of rainfall is needed to begin seeing storage levels increase at Stafford Lake, Williams said.

The district's Novato customers will likely remain under mandatory water use restrictions this winter, which requires a collective 20% reduction in water use compared to 2020 water usage, unless drought conditions improve in Sonoma County, Williams said. West Marin customers are being asked to voluntarily cut water use by 15%.

About 85% of the state, including Marin County, is experiencing at least severe drought conditions, if not worse, according to the U.S. Drought Monitor, operated by the federal government and the University of Nebraska-Lincoln's National Drought Mitigation Center.

The National Weather Service says that while drought conditions are better compared to last year, it would take several large storms to bring areas out of drought. National forecasters are expecting a third consecutive year of La Niña weather patterns this winter, which for the Bay Area means an equal chance of above-average or below-average rainfall.