



**NORTH MARIN
WATER DISTRICT**

NORTH MARIN WATER DISTRICT

AGENDA - REGULAR MEETING

March 7, 2023 – 6:00 p.m.

District Headquarters

Location: 100 Wood Hollow Dr. Suite 300

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.

Est. Time	Item	Subject
6:00 p.m.		CALL TO ORDER
	1.	APPROVE MINUTES FROM REGULAR MEETING , February 21, 2023
	2.	GENERAL MANAGER'S REPORT
	3.	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.
	4.	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.
	5.	Consent – Approve: SCS Consultant Services Agreement for Audit of Chlorine Gas System at Stafford Treatment Plant
		ACTION CALENDAR
	6.	Appeal of ADU Facility Reserve Charge Refund Decision
	7.	Letter of Support for Assembly Bill (AB) 30
		INFORMATION ITEMS
	8.	Proposed FY23/24 Budget Review and Rate Hearing Schedule
	9.	Initial Review Sonoma Water FY 23/24 Water Transmission System Budget
	10.	Oceana Marin and Sewer Services to Dillon Beach Properties
	11.	NBWA – March 3, 2023
	12.	MISCELLANEOUS Disbursements – Dated February 23, 2023 Disbursements – Dated March 3, 2023 Auditor-Controller's Monthly Report of Investments for January 2023 U.S. Seasonal Drought Outlook – February 28, 2023 Sonoma Water 2023 Strategic Plan Fact Sheet – West Marin Service Area Water Supply Resiliency Project
		News Articles: Marin IJ – Plans to split lots begin to multiply – REAL ESTATE Marin IJ – Marin Municipal details drought surcharge plan – RECOVERING REVENUE Marin IJ – Drought ends for majority of California – FEDERAL REPORT Current U.S. Drought Monitor Conditions for California: Current Novato Advance – North Marin Water District; Serving Novato for 75 Years!
7:30 p.m.		ADJOURNMENT

1

1 **MINUTES**

2 On motion of Director Joly seconded by Director Petterle the Board approved the minutes
3 from the February 7, 2023 meeting as presented by the following vote:

4 AYES: Director(s) Baker, Eichstaedt, Fraites, Joly and Petterle

5 NOES: None

6 ABSENT: None

7 ABSTAIN: None

8 **GENERAL MANAGER'S REPORT**

9 During the General Manager's report, Mr. Williams updated the Board that on February 8,
10 2023, he, Eric Miller, and Pablo Ramudo met with the Region 1 representative and the Executive
11 Director from the Association of California Water Agencies (ACWA). Pablo discussed the numerous
12 and different types of reports NMWD submits to different state agencies. The discussion also
13 included new regulations coming up, aging infrastructure and staff provided a fact sheet on funding
14 needs for Stafford Dam (which is included in the Miscellaneous portion of this meeting's agenda).
15 The rep shared proposed Senate Bill SB23, which is about streamlining the permitting process for
16 water projects (a fact sheet included in Miscellaneous).

17 Director Joly asked if there was any feedback on our funding for infrastructure or dam issues.
18 Mr. Williams responded that he believes ACWA is aware of the need and looks for opportunities for
19 their members.

20 **OPEN TIME**

21 President Fraites asked if anyone in the audience wished to bring up an item not on the
22 agenda and there was no response.

23 **STAFF/DIRECTORS REPORTS**

24 President Fraites asked if staff or Directors wished to bring up an item not on the agenda
25 and the following items were discussed:

26 Chris Kehoe gave an update on the boring contractors that have been in town doing work for
27 telecommunications. Because there have been several water mains damaged from their work, Mr.
28 Kehoe stated that he has been working with both the City of Novato and County of Marin regarding
29 their permitting process. There are no requirements in their permit language other than general
30 USA (Underground Services Alert) law but both agencies are very aware of the District's concern
31 and the work is impacting other agencies as well. He has met with several of the contractors to ask
32 that they put more effort into potholing and communicate with the District before starting work to
33 avoid damage and has even provided as-built information for their use. Director Baker asked if any

1 of the damage locations were due to any mis-markings of our line and Mr. Kehoe responded that the
2 lines were marked per the information the District had but they were actually in a slightly different
3 location.

4 **CONSENT CALENDAR**

5 On the motion of Director Baker and seconded by Director Petterle the Board approved the
6 following items on the consent calendar by the following vote:

7 AYES: Director(s) Baker, Eichstaedt, Fraites, Joly and Petterle

8 NOES: None

9 ABSENT: None

10 ABSTAIN: None

11 **GHD – CONSULTING SERVICES AGREEMENT (GIS CONVERSION TO ESRI AND MAPPING**
12 **SUPPORT)**

13 Use of GIS technology allows staff to access detailed as-built information for assets and
14 while the current program continues to meet the District’s basic GIS needs, a number of limitations
15 have become apparent that could be addressed by changing to a different software. By transitioning
16 our GIS database to programs developed by ESRI, the District will be able to leverage the
17 integration capabilities between the asset management and work order features within the asset
18 management program currently is use. Staff recommends GHD to provide consulting services to
19 convert the District’s GIS data onto the ESRI platform, as well as the preparation of a new large-
20 format system distribution map for District use.

21 The Board approved the Consulting Services Agreement with GHD for GIS Conversion to
22 ESRI and Mapping Support in the amount of \$31,915.

23 **ACTION CALENDAR**

24 **CONSIDER A 4:00 P.M. CONVENING TIME FOR BOARD MEETINGS**

25 Tony Williams discussed the idea of convening for Board meetings at 4:00 p.m. He stated
26 that several other agencies in the county have earlier start times than NMWD current time of 6:00
27 p.m. The directors acknowledged that staff has to stay late when the meetings start at 6:00 but
28 were concerned the public may not be able to attend if the meeting begin at 4:00. However, they did
29 acknowledge that very few of the public attend the meetings and agreed that the time change would
30 probably not affect whether the public would attend or not. It was noted that Board meetings used to
31 convene at 8:00 p.m., then the time changed to 7:00 p.m., then again to 6:00 p.m. which was

1 partially driven by an earlier recommendation to start at 4p.m. The Directors also agreed that
2 starting at 4:00 p.m. would allow them to attend some meetings of other agencies that previously
3 they were unable to attend because NMWD’s Board meeting time was in conflict. Director Joly said
4 he is in favor, but would like the time change to commence with the first meeting in April so there is
5 ample time for public notice.

6 On the motion of Director Petterle and seconded by Director Joly the Board approved
7 convening at 4:00 p.m. starting with the April 4, 2023 Board meeting by the following vote:

8 AYES: Director(s) Baker, Eichstaedt, Fraites, Joly and Petterle

9 NOES: None

10 ABSENT: None

11 ABSTAIN: None

12 **INFORMATION ITEMS**

13 **QUARTERLY FINANCIAL STATEMENT**

14 Julie Blue provided highlights to the Board from the December 2022 Quarterly Financial
15 Statement. Ms. Blue reported that the Operating Revenue was at 52% of the budget and 21% of the
16 Capital Improvement Projects have been completed. She explained that the financial statements
17 show an increase in consumption but that unbilled water consumption was overestimated and it will
18 be adjusted in the subsequent month. Novato operating expenses were \$10.6M, 3% higher than
19 last year, and net revenue was \$1.3M year to date. She reported that, year to date, the Stafford
20 Plant produced 266 million gallons and there were 132M gallons consumed by recycled water
21 customers. West Marin’s revenue was 7% higher and consumption was up 16% from the prior year.
22 In Oceana Marin, there are 235 active accounts and the operating revenues are 5% higher than the
23 prior fiscal year. Director Joly said it was an excellent report and asked if the recycled water
24 accounts were at their max. Mr. Williams responded that there will be some additional larger
25 development projects in the future and that should modestly increase the number of recycled water
26 customers. Director Joly thanked Ms. Blue and Mr. Williams.

27 **BROWN ACT TRAINING**

28 Craig Judson and Sharon Nagle of the District’s legal counsel, Bold, Polisner, Maddow,
29 Nelson and Judson, joined the meeting.

30 Mr. Judson gave a presentation of the Brown Act (Act) to the Board of Directors and staff
31 that included an overview of the Act itself, meetings, noticing and agendas, rights of the public,
32 closed sessions and new legislation. He noted that the Directors should not meet in a group larger

1 than 2 outside of a Board meeting in order to not violate the Brown Act because if there were more
2 than 2, it would constitute a quorum. Exceptions are conferences where they could all be expected
3 to attend but it should be announced prior to the conference that all are going to attend. It was
4 stressed that they should always think carefully about where they go and what they say as there is a
5 possibility of a public perception of what is actually occurring. If there is any doubt if something
6 could be a violation then legal counsel should be consulted. Mr. Judson also noted that email can
7 be construed as a meeting if there is a serial or daisy chain email in which multiple board members
8 participate in.

9 Mr. Judson explained that in order to give ample notice to the public, agendas need to be
10 posted a minimum of 72 hours in advance for regular meetings, 24 hours in advance for special
11 meetings. The agenda should clearly describe the item to be discussed. Mr. Williams asked about
12 the District's typical agenda items, staff/directors and general manager reports, at meetings and Mr.
13 Judson responded that because there is no action taken it is allowed for these reports to be
14 discussed at a meeting. It was noted that extending the discussion during a report out and taking
15 any action must be avoided. If a closed session is held, the members can discuss what is on that
16 agenda, but no action can be taken and that they must reconvene afterwards into open session and
17 state that no action was taken. If an action were taken during a closed session it would be void and
18 penalties could be assessed if actions were taken when not allowed. Director Fraites asked if the
19 entire Board needs to reconvene or could just the Board President and General Manager reconvene
20 and Mr. Judson said that would be acceptable and the President should simply note that no action
21 was taken.

22 Mr. Judson said that there has been new legislation that recognizes hybrid meetings and Ms.
23 Nagle provided an overview of unique cases when a Board member could participate remotely Ms.
24 Nagle also discussed the new procedures to deal with a disruptive member attending a meeting.

25 Mr. Judson concluded the presentation with a discussion regarding public records. He
26 stressed that personal computers/devices should not be used for District emails since they would be
27 subject to the Public Records Act. Director Joly asked about if a member of the public emailed a
28 Board member at their personal email and Mr. Judson said they should forward that email to their
29 District email in order to keep personal and business emails separate. Mr. Judson noted that use of
30 a personal computer to use Zoom or other virtual platforms to participate in a meeting was
31 acceptable in response to a question from Director Joly.

32 The Board thanked Mr. Judson and Ms. Nagle.

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1 **MISCELLANEOUS**

2 The Board received the following miscellaneous items: Disbursements - Dated February 9,
3 2023 and February 16, 2023, Monthly Progress Report, SB23 Streamlining Delivery of Critical Water
4 Projects While Protecting the Environment to Meet Challenges of Climate Change – ACWA,
5 Factsheet - Enhancement of Stafford Dam safety and security with advanced instrumentation and
6 monitoring, U.S. Seasonal Drought Outlook - February 16, 2023.

7 The Board also received the following news articles: Marin IJ: MMWD details plan for rate
8 hike.

9 The Board also received the NMWD Web and Social Media Report – January 2023.

10 **ADJOURNMENT**

11 President Fraites adjourned the meeting at 7:48 p.m.

12 Submitted by

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Eileen Mulliner
District Secretary

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MEMORANDUM

To: Board of Directors Date: March 7, 2023

From: Eric Miller, Chief Engineer/Assistant GM 
Avram Pearlman, Associate Engineer

Subject: Approve SCS Consultant Services Agreement for Audit of Chlorine Gas System at Stafford Treatment Plant

R:\Folders by Job No\4000 Jobs\4100.00 STP - Chlorine Code Compliance\HOD Memos\4100.00 STP - Chlorine Code Compliance Consulting Services Agreement-am.doc

RECOMMENDED ACTION: That the Board authorize the General Manager to execute an agreement with SCS for consulting services to perform an Audit of the Chlorine Gas System at the Stafford Treatment Plant.

FINANCIAL IMPACT: \$20,000 included in the current FY 2022/23 budget

Background

The Environmental Protection Agency (EPA) conducted a routine inspection of the District's Stafford Treatment Plant (STP) on September 19, 2022. Subsequent to the inspection a report was issued to the District that included a number of items identified as EPA "Area(s) of Concern". Item No. 5 was related to the Chlorine systems used in production at STP. The following is an excerpt of EPA Area of Concern Item No. 5 from the report:

(1) The Plant did not document compliance with 40 C.F.R. 68.65(d)(2) and (3).

(d)(2) The owner or operator shall document that equipment complies with recognized and generally accepted good engineering practices, RAGAGEP.

(d)(3) For existing equipment designed and constructed in accordance with codes, standards, or practices that are no longer in general use, the owner or operator shall determine and document that the equipment is designed, maintained, inspected, tested, and operating in a safe manner.

Discussion

STP was constructed in 2004 in compliance with all applicable standards at that time, including those related to chlorine gas. In response to the EPA's Area of Concern Item No. 5, the District solicited quotes from qualified firms to conduct a code gap-analysis and to provide the District with a comprehensive list of code changes since 2004 to aid in our compliance with EPA guidelines.

Approved by GM 

Date 3/2/23

District staff reached out to a total of five (5) consulting firms to request quotes. Three (3) of the firms declined to bid due to the specific nature of the qualifications required. Quotes from the remaining two (2) firms are summarized below.

Firm Names and Ranking

Consultant	Location	Quote (Site Visit)	Quote (No Site Visit)	Overall Rank
SCS	Long Beach	\$16,700	\$13,400	1
GHD	Santa Rosa	\$36,364	\$33,432	2

Discussions with the higher ranked firm, SCS, were conducted during the week of February 13 to finalize the scope of services required for the project and associated fee. Both quotes include an optional task for a site visit to STP in case one is needed for the firm to complete the work, which includes developing a comprehensive list of applicable codes and regulations related to chlorine gas use, the District's compliance status, and a summary of recommended corrective actions.

Consulting Agreement

Staff recommends contracting with SCS to provide the required professional services to address the EPA's Area of Concern No. 5 for STP. Staff has thoroughly reviewed the attached proposal (Attachment 1), including SCS's scope of services, schedule and fee and is recommending Board authorization to proceed with an agreement. SCS is an experienced engineering firm with this type of compliance work and is a good fit for this project.

RECOMMENDATION

That the Board authorize the General Manager to execute an agreement with SCS of Long Beach, CA for a not-to-exceed fee of \$20,000 to be billed on an hourly basis as approved by staff. The not-to-exceed amount includes funds for the optional site visit and a 20% contract contingency.

ATTACHMENT: 1. Proposed Scope and Fee for an Audit of the Chlorine Gas System at Stafford Treatment Plant by SCS, dated February 16, 2023

February 16, 2023
File No. 010140223r1

Mr. Avram Pearlman
Associate Engineer
North Marin Water District
PO Box 146
Novato, CA 94948
415.272.0079

via email (apearlman@nmwd.com)

**Subject: Revised Proposal for GAP Analysis of the Gaseous Chlorine System
NMWD Stafford Water Treatment Plant
999 Rush Creek Place, Novato, California**

Dear Mr. Pearlman:

SCS Engineers submits this revised proposal to the North Marin Water District (NMWD) to provide consulting services for the Stafford Water Treatment Plant (SWTP) in Novato, California (the "Site"). SCS understands that the Site received an inspection by the United States Environmental Protection Agency (EPA Region 9) on September 19, 2022. The EPA reportedly observed that "The Plant did not document compliance with 40 C.F.R 68.65 (d)(2) and (3)."

The EPA observed that the SWTP is not in compliance with 40 CFR 68.65 Process Safety Information, specifically:

- *(d)(2) The owner or operator shall document that equipment complies with recognized and generally accepted good engineering practices (RAGAGEP).*
- *(d)(3) For existing equipment designed and constructed in accordance with codes, standards, or practices that are no longer in general use, the owner or operator shall determine and document that the equipment is designed, maintained, inspected, tested, and operating in a safe manner.*

This proposal includes the scope and costs associated with the following items, as requested by the NMWD:

- Review the following documents provided by the NMWD
 - As built drawings of the facilities relating to chlorine gas storage and distribution throughout the plant
 - Process Hazard Analysis (PHA)
 - Risk Management Program (RMP) Manual
- Code Gap Analysis from 2004 to present (Draft Submittal)
- Allow for EPA comments on the code gap analysis
- Finalize changes based on EPA comments (Final Submittal)



ABOUT SCS ENGINEERS

SCS is one of the oldest and largest privately held environmental service firms in the United States, and is a recognized world leader in hazardous and solid waste engineering and site remediation. Founded in 1970, the firm employs 1000+ professional and support staff in 68 offices throughout the nation. Our western region offices, with over 350 experienced professional staff, are located in Santa Rosa, Long Beach, Modesto, Pleasanton, Sacramento, Bakersfield, Pasadena, Rancho Cucamonga, San Marcos, San Diego, Henderson (NV), Phoenix, and Tucson. SCS is independently owned by its employees, all of whom are committed to providing objective, responsive, and superior services to clients.

Engineering meticulous selection of the project team is always a function of our overriding objective on each project: to deliver the best solution and best overall value to our client. Each Project Team Member, from our own SCS Engineers to our subconsultants, is selected with careful consideration and a strategic mindset to ensure a successful outcome of potential projects with the NMWD. Scope-specific experience, availability, and scheduled workload are all factors when selecting our team. Our longevity, numerous long-lasting client relationships and overwhelmingly positive reputation in the industrial hygiene, safety, and engineering industry demonstrate the qualifications of our senior engineers, key personnel, and executive leaders.

As part of the team for this project, SCS's Project Manager is a Certified Safety Professional, a Certified Industrial Hygienist, and a Professional Geologist. Mr. Douglas has over 30 years of experience in the environmental consulting industry, and lived for over 15 years in the City of Novato.

SCOPE OF SERVICES

SCS proposes to perform the following scope of services:

1. Review the following documents provided by the NMWD:
 - a. Record Drawings, dated February 2007
 - i. Disinfection Building/Finished Clearwell Mechanical Floor Plan
 - ii. Disinfection Building/Finished Clearwell Mechanical Floor Plan Demolition Plan
 - iii. Disinfection Building/Finished Clearwell Mechanical Floor Plan New Facilities
 - iv. Disinfection Building / Clearwell - Mechanical Sections and Details
 - v. Disinfection Building / Clearwell - Feed Room Sections and Details
 - vi. Disinfection Building HVAC Floor Plan & Details
 - b. Process Hazard Analysis, dated December 2019
 - c. Risk Management Program Manual, dated December 2019

2. Review current codes and standards related to gaseous chlorine systems at water treatment plants, including:
 - a. Uniform Fire Code
 - b. Uniform Building Code
 - c. Chlorine Institute Standards
 - d. Engineering Standards for Hoists
 - e. EPA Regulations 40 CFR Part 68 Risk Management Program contains new regulations. Facilities are required to update their RMPs to comply with new or revised provisions by March 14, 2022.
 - f. California Code of Regulations §65547 – Compressed Chlorine Gas Safety Requirements
 - g. The Chlorine Institute 's RAGAGEP criteria
 - h. Other applicable codes and standards
3. Prepare a draft code gap analysis submittal for the District, consisting of:
 - a. Comprehensive list of applicable Codes and Regulations related to chlorine gas use in surface water treatment
 - b. Analysis for each requirement indicating whether the District is in compliance or corrective action is needed
 - c. Brief summary of what corrective actions are needed in table format or bulleted list
4. Prepare a final code gap analysis submittal for the District, after receiving District comments
5. OPTIONAL – Visit the Site to:
 - a. Compare the actual construction of the chlorine system compared to the construction drawings
 - b. Perform PSM related inspection of equipment and conveyances
 - c. Perform RMP survey of facility procedures

SUMMARY AND COST

SCS recommends that Site inspections be included in the scope of work. However, SCS is cognizant that the NMWD wants to keep costs down while still complying with current codes and regulations. In order to perform the scope of work with safety of both the Site workers and the community in mind, a Site inspection by an experienced Professional Engineer is highly desirable, to ensure that the system as constructed is fully understood and documented correctly.

Therefore, SCS presents two costs for performing the scope of work, both with and without a Site inspection:

Cost for scope of work including a Site visit for inspection of existing conditions and operational procedures – a fixed fee amount of \$16,700.

Cost for scope of work without the optional Site visit – a fixed fee amount of \$13,400.

Out-of-Scope items - This task is designed to respond to requests from the NMWD that fall outside the scope of services detailed herein. Costs for items such as responding to comments or changes requested by the EPA, additional Site visits, engineering calculations, ventilation system evaluation, pipe labelling plan development, collection of personal exposure samples and associated laboratory services, etc., would be covered under this task. Work performed under this task would be charged on a time-and-materials not-to-exceed basis, and would not be performed without prior written authorization from the NMWD. Proposed cost for out-of-scope items as T&M NTE = \$10,000.

Exceptions, assumptions, and possible non-routine activities:

This proposal does not include non-routine tasks that need written approval prior to being performed by SCS, such as:

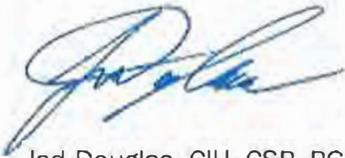
- Client meetings
- Visiting the Site if the optional Site visit scope is not selected
- Responding to comments from the EPA, making changes to the submittal based on EPA comments, or interacting with the EPA on behalf of the District
- Discussions with the Client and their legal counsel
- Addressing comments on the submittal from legal counsel
- Additional Site visits
- Engineering calculations
- Collection of samples
- HVAC evaluation
- Laboratory analytical services

Assumptions

- One draft version of the gap analysis will be provided to the NMWD for review. A single round of NMWD comments and/or revisions will be incorporated into the draft report for submittal to the EPA.
- If additional draft document review is determined by the NMWD or EPA to be necessary, costs for addressing additional comments and/or changes will fall under the Task for on-call services.
- Site visit(s), if performed, will be conducted during regular business hours.

CLOSING

We greatly appreciate the opportunity to provide our services to the North Marin Water District Stafford Water Treatment Plant. Tasks detailed above would be performed on a fixed fee basis, or on a time and materials not to exceed basis for out of scope items. If the proposal and costs are acceptable, please notify SCS of the type of contracting mechanism preferred by the NMWD. This proposal is valid for a period of 45 calendar days from the date of submittal. Should you have questions regarding this proposal, please contact either of the undersigned.



Jed Douglas, CIH, CSP, PG
Senior Project Advisor
SCS Engineers
562.221.4986



Mark Pearson, PE
Project Director
SCS Engineers
913.403.6493

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MEMORANDUM

To: Board of Directors Date: March 7, 2023
From: Eric Miller, Assistant General Manager / Chief Engineer 
Subject: Appeal of ADU Facility Reserve Charge Refund Decision
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RECOMMENDED ACTION: Provide direction to staff

FINANCIAL IMPACT: Unknown at this time

Summary

On December 14, 2022 engineering staff received a letter from Eric Lucan, a District customer in the Novato service area, requesting a partial refund of Facility Reserve Charges (FRC) paid for two separate Accessory Dwelling Unit (ADU) projects. Mr. Lucan paid the FRC amount of \$10,000 for each ADU project in accordance with District Regulation 1 on April 21, 2021 and June 13, 2022, respectively.

The request for partial refund was made in response to Board approval of revisions to Regulation 1 at the December 6, 2022 Board of Directors meeting, which establishes the District fees for new service connections. The December revisions included changes to the FRC amounts associated with every development category, including reducing the FRC amount of ADU projects from \$10,000 to \$7,640 (a difference of \$2,360) for the Novato service area. Based on the revisions to Regulation 1, Mr. Lucan requested to be refunded the amount of \$2,360 for each ADU project, for a total refund amount of \$4,720.

The District does not have an official policy for refunding previously paid fees in the event that they are reduced. Additionally, staff was unable to identify precedent from past practice where refunds were issued to customers based on fee revisions of any kind. Given the basis in which the December revisions to Regulation 1 were made, with guidance from the District's legal counsel, staff denied Mr. Lucan's request for partial refund in a letter dated December 20, 2022.

The District's letter to Mr. Lucan provided an option to appeal staff's decision to the Board of Directors. A letter was received on February 24, 2023 addressed to all members of the Board of Directors detailing Mr. Lucan's intent to appeal at tonight's meeting. The following information is intended to provide additional context to the Board to aid in their decision on this matter.

Background

FRCs are one-time charges paid for new development or change in service to access capacity in the water system. The District's FRC were previously reviewed in 2014, and then again recently in 2022 to ensure that the capacity related fees that are being charged are sufficient to cover the cost of providing access to the water system and that the fees are fair and reasonable. The calculation of FRCs (also known as capacity charges or connection fees) is governed by California Government Code Sections 65852.2 and 66013, as well as constitutional requirements and court decisions.

There are multiple State-approved methods for calculating FRCs that result in fair and reasonable fees, and the District's recent connection fee study took all of the different methods into account. Specifically related to ADU fees, one State-approved method yielded a fee amount of \$17,835.30. District staff did not recommend use of that particular method in the December 2022 revisions to Regulation 1, although it would have represented a fair and reasonable FRC for ADU projects had staff made that recommendation.

Alternatively, staff chose to analyze historical water use data from customers with ADUs in the Novato service area which resulted in a lower FRC for ADU projects. It is important to note that the method of using water use data is not explicitly listed in the Government Code Sections that govern these types of fees, however the District is confident that the methodology is consistent with the intent of those regulations. Due to the various State-approved methods, there is a range of fee amounts that represent fair and reasonable fees and the District used discretion to revise Regulation 1.

The District's recent connection fee study was planned for and budgeted in fiscal year 2022/23 which began on July 1, 2022. The contract with the District's consultant, Hildebrand Consulting, was approved by the Board on August 2, 2022. Results of the study were presented to the Board at the November 15, 2022 meeting and a public hearing took place on December 6, 2022, which resulted in Board approval of revisions to Regulation 1 at the same meeting. Of the six (6) different development categories for the Novato service area, three (3) of the fee amounts increased and three (3) of the fee amounts decreased as a result of the December 2022 revisions to Regulation 1.

Regulation 1 includes dates that the fees become effective, with the most recent revision having an effective date of 12/6/2022. Project fees paid prior to that date were subject to the amounts in effect at their time of payment. Modifying fees retroactively would create complex situations that would require a formal policy to detail the following;

- Does the District issue refunds on reduced fees and issue invoices on increased fees?
- How far in the past do customers qualify for refunds/collections?
- Does status of the development and water use effect if refunds/collections are processed?
- Does staff proactively seek refunds/collections or are they issued upon request only?

Recommendation

That the Board provide direction to staff specifically related to Mr. Lucan's request for partial reimbursement of FRC amounts paid for two separate ADU projects on April 21, 2021 and June 13, 2022, respectively.

Attachments:

1. Letter from Eric Lucan to Staff, dated December 14, 2022
2. Response letter from District to Eric Lucan, dated December 20, 2022
3. Letter from Eric Lucan to Board Members, dated February 24, 2023

December 14, 2022

Eric Miller
North Marin Water District
PO Box 146
Novato, CA 94948

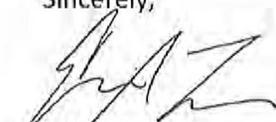
Mr. Miller,

I am writing to formally request a partial refund on two different Facility Reserve Charges paid in the past 18 months for ADU projects in Novato. The Facility Reserve Charge for ADUs was reduced from \$10,000 to \$7,640 at the board meeting on December 6th. As a result of the two Facility Reserve Charges paid at the previous rate, I am requesting a refund of \$4,720 as these were both paid and permitted after AB 68 went into effect. In reference to Facility Reserve Charges for ADUs, Government code 65852.2 stipulates that "This fee or charge shall not exceed the reasonable cost of providing this service". Now that the Facility Reserve Charge Study has been completed based on actual data of historical water system capacity usage, the amounts should be refunded in accordance with state law.

On April 21, 2021, I paid a \$10,000 FRC for an ADU project at 1014C Machin Avenue in Novato and on June 13, 2022, I paid a \$10,000 FRC for an ADU project at 1670 Center Road in Novato (see attached).

I appreciate you looking into this matter and look forward to hearing from you. Please contact me if you have any questions.

Sincerely,


Eric Lucan



999 Rush Creek Place
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Eric Lucan



December 20, 2022

Mr. Lucan,

This letter is in response to your December 14, 2022 letter "request[ing] a partial refund of two different Facility Reserve Charges paid in the past 18 months for ADU projects in Novato."

Your letter suggests that "the amounts should be refunded in accordance with state law," because the Facility Reserve Charge (FRC) Study recommended a lower amount, and because Government Code section 65852.2 states, in part, that "[t]his fee or charge shall not exceed the reasonable cost of providing this service". Unfortunately, there is an apparent misunderstanding of section 65852.2 and the methods by which capacity charges like the District's FRC may lawfully be calculated. Subdivision (f)(5) specifically references two methods of calculating the appropriate amount of a capacity fee for certain ADUs: "the ... capacity charge ... shall be proportionate to the burden of the proposed accessory dwelling unit, based upon either its square feet or the number of its drainage fixture unit (DFU) values."

As part of the analyses culminating in the recent December 6, 2022 revisions to the District's FRCs, the District performed an alternative calculation of the FRC using DFU values; the FRC calculated for ADUs using DFU values ranged from \$11,890.20 to \$17,835.30 depending upon the number and type of fixtures. These values are significantly higher than the previous FRC for ADUs of \$10,000.

Further, our due diligence analysis in support of the proposed FRC included a review of previous FRCs and it was determined that the previous FRC for ADUs – which you paid as part of the two ADU projects referenced in your letter – "did not exceed the reasonable cost of providing" service to our customers. As noted above, the legislation that guides these types of fees allows for multiple different methods to be used, and the recent fee revisions were due to the District changing calculation methodology from one accepted method to another. Although the FRCs that you paid in April 2021 and June 2022 were higher than the FRC calculated using actual water use (which is *not* specifically referenced in the statute), they were *lower* than the FRC calculated using one of the two methods specifically referenced in the statute.

Note that Government Code section 65852.2 is not the only statutory provision applicable to capacity charges like the District's FRCs. Subdivision (a) of Government Code section 66013 provides in pertinent part, "[n]otwithstanding any other provision of law, when a local agency ... 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." This language more precisely captures the fact that these are forward-looking charges, which necessarily depend upon future estimates of costs. Accordingly, the District's Regulation 1 includes "effective" dates for FRCs and other types of charges.

DIRECTORS: JACK BAKER · KEN EICHSTAEDT · RICK FRAITES · MICHAEL JOLY · STEPHEN PETTERLE

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

Eric Lucan
December 20, 2022
Page 2 of 2

Approval of AB 68 in 2019 had no impact on the District's decision to revisit FRCs, but rather the decision was made as a matter of practice to periodically revisit fees to ensure that calculation methodology is in line with industry best practice, aligned with current management discretion, and evaluation of existing excess system capacity. As a result of the recent fee revisions, some of the FRC amounts went down, but other FRC amounts went up. The District has decided that FRC amounts paid at the time of application approval are final in both scenarios. For this reason, the District will not pursue additional monies from recent applications where the associated FRC increased, nor will the District issue reimbursement of funds for recent applications where the associated FRC decreased.

Accordingly, the District has decided to deny your request. You have the option to appeal this decision to the Board of Directors, upcoming meeting dates are January 17, 2023 and February 7, 2023. You would need to submit your request for the appeal and all relevant documents at least one (1) week prior to the meeting date you wish to attend. Any appeal presented to the Board of Directors would become a matter of public record.



Eric Miller, PE
Assistant General Manager | Chief Engineer
North Marin Water District
(415) 897-4133

CC: Tony Williams, General Manager, North Marin Water District

Enclosed: Letter from Eric Lucan, dated December 14, 2022

February 24, 2023

North Marin Water District Board of Directors
PO Box 146
Novato, CA 94948

President Fraitas, Vice President Baker, and Directors Eichstaedt, Joly, & Petterle,

I am writing to formally appeal an administrative decision to not provide a partial refund of two recently paid Facility Reserve Charges for ADU projects within the district. On both projects, I paid the full \$10,000 Facility Reserve Charge for ADUs in the Novato area. That fee was reduced to \$7,640 at the December 6, 2022 board meeting based on a Facility Reserve Charge Study that was conducted. My original request for the partial refund was submitted on December 14, 2022 and is attached as Exhibit A.

On December 20, 2022 I received a response letter denying my request at an administrative level, but it provided an option to appeal the decision to the Board of Directors at an upcoming meeting. Please see Exhibit B.

The original facts I provided in my letter (Exhibit A) still hold true. AB 68 was passed in 2019 which added language to Government Code 65852.2 stipulating that with regards to Facility Reserve Charges: "This fee or charge shall not exceed the reasonable cost of providing this service". Based on the district's most recent Facility Reserve Charge, the district adopted a hybrid of the "Buy-In Approach" and the "Incremental Cost Approach". This brought the Facility Reserve Charge for a Single Family home to \$28,310. The district also lowered the ADU multiplier from .35 to .27 which brought the ADU fee to \$7,640.

Following the change in state law, starting in 2020 ADU connection fees could not exceed the reasonable cost of providing the service. In both cases, the fee that I paid was 30% higher than the reasonable cost of providing the service as adopted by the district and must be refunded in accordance with state law.

The response letter that I received suggests that the \$10,000 fee was justified because it was lower than the alternative calculated amount had the Facility Reserve Charge been based on drainage fixture units. However, that methodology and amount wasn't adopted by the district and the analysis referenced in the letter isn't even included in the Facility Reserve Charge that was made public. Referencing an unadopted internal analysis cannot be used to justify the higher fee.

For additional information, both ADUs constructed are under 750 square feet and only have 1 bathroom. One unit has only been using water service for 6 months and the other unit hasn't even connected to the meter yet. Both projects are still awaiting final permit approval from the various permitting entities. These are not years old projects. They are recent projects that started after the change in state law. The fee charged needs to comply with state law as opposed to the \$10,000 fee based on a .35 multiplier from the 2014 Facility Reserve Charge Study.

Thank you for your service and for your consideration.

Sincerely



Eric Lucan

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**MEMORANDUM**

To: Board of Directors

March 7, 2023

From: Tony Williams, General Manager 

Subj: Letter of Support for Assembly Bill No. 30

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RECOMMENDED ACTION: Authorize the General Manager to Send a Letter of Support for Assembly Bill No. 30 on Behalf of the District

FINANCIAL IMPACT: None at this time

The District relies on Russian River water deliveries from the Sonoma County Water Agency (Sonoma Water) for 75 – 80% of the water demand for the Novato Service Area. There are two major reservoir projects that provide water supply for the Russian River watershed: Lake Mendocino on the East Fork of the Russian River and Lake Sonoma on Dry Creek, a tributary to the river mainstem. Lake Mendocino and Lake Sonoma are dual-purpose reservoirs in that they provide flood protection (managed by the U.S. Army Corps of Engineers) and water supply storage (releases managed by Sonoma Water). Sonoma Water, as local sponsor, controls and coordinates water supply releases from Lake Mendocino and Lake Sonoma in accordance with its water rights permits and the requirements of State Water Resources Control Board's Decision 1610.

Forecast-Informed Reservoir Operations (FIRO) is a management strategy that uses data from watershed monitoring and modern weather and water forecasting to help water managers selectively retain or release water from reservoirs in a manner that reflects current and forecasted conditions. FIRO was developed and is being tested as a collaborative effort focused on Lake Mendocino that engages experts in civil engineering, hydrology, meteorology, biology, economics, and climate from several federal, state, and local agencies, universities, and others, including but not limited to the National Oceanic and Atmospheric Administration (NOAA), U.S. Army Corps of Engineers (USACE), U.S. Geological Survey (USGS), California Department of Water Resources (DWR), Sonoma Water, the Center for Western Weather and Water Extremes and Scripps Institution of Oceanography at UC San Diego.

The goal of FIRO is to develop, demonstrate, and implement tools based on science that enable more effective management of reservoirs, especially dual-purpose reservoirs (both flood control and water supply functions), by leveraging improvements in weather and water forecasts.

The Western United States experiences a wide range of storms that cause much of the extreme precipitation and flood risk in the region, and atmospheric rivers dominate extremes along the west coast. Although other extreme weather-related phenomena have received great attention scientifically and for developing forecasting tools, atmospheric rivers have received much less focus. The past decade of research has shown that most of the extreme precipitation and flooding events in California (and other areas of the west), and much of the snowpack and water supply are associated with atmospheric rivers (referred to as ARs).

This progress has inspired recognition that major benefits could accrue with establishment of a long-term research and application capability focused on western weather and water issues, with special emphasis on atmospheric rivers. The Western States Water Council has formally recommended focused research, monitoring, prediction and climate trend detection tailored to the Western U.S. with the establishment of a Center for Western Weather and Water Extremes (Center) led by Scripps Institution of Oceanography and in partnership with federal (NOAA and USGS), state (DWR and California Energy Commission), and local (Sonoma Water, and San Francisco Public Utilities Commission) agencies. This Center is supporting numerical modeling, experimental forecasting and specialized data collection using both a long-term network and periodic field experiments with partners, and existing and emerging airborne and satellite sensors in collaboration with NASA, NOAA and Department of the Energy.

Assembly Bill 30 (AB-30), introduced by Assembly Member Ward in December 2022 and co-sponsored by Sonoma Water is provided as Attachment 1. AB-30 updates and expands the Department of Water Resources Atmospheric River Research and Forecast Improvement Program. Advancing observations and forecasts of atmospheric rivers is critical to the successful water management and overall resiliency in light of climate change its impacts.

RECOMMENDATION

Authorize the General Manager to send the attached letter of support (Attachment 2) on behalf of the District.

ATTACHMENTS:

1. Draft AB-30 Language (As Introduced December 5, 2022)
2. Draft NMWD letter of Support



AB-30 Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program. (2023-2024)

SHARE THIS:  

Date Published: 12/05/2022 09:00 PM

CALIFORNIA LEGISLATURE— 2023-2024 REGULAR SESSION

ASSEMBLY BILL

NO. 30

Introduced by Assembly Member Ward

December 05, 2022

An act to amend the heading of Article 8 (commencing with Section 347) of Chapter 2.5 of Division 1 of, and to repeal and add Section 347 of, the Water Code, relating to atmospheric rivers.

LEGISLATIVE COUNSEL'S DIGEST

AB 30, as introduced, Ward. Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program.

Existing law establishes the Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program in the Department of Water Resources. Existing law requires the department, upon an appropriation for purposes of the program, to research climate forecasting and the causes and impacts that climate change has on atmospheric rivers, to operate reservoirs in a manner that improves flood protection, and to reoperate flood control and water storage facilities to capture water generated by atmospheric rivers.

This bill would rename that program the Atmospheric Rivers Research and Forecast Improvement Program: Enabling Climate Adaptation Through Forecast-Informed Reservoir Operations and Hazard Resiliency (AR/FIRO) Program. The bill would require the department to research, develop, and implement new observations, prediction models, novel forecasting methods, and tailored decision support systems to improve predictions of atmospheric rivers and their impacts on water supply, flooding, post-wildfire debris flows, and environmental conditions. The bill would also require the department to take all actions within its existing authority to operate reservoirs in a manner that improves flood protection in the state and to reoperate flood control and water storage facilities to capture water generated by atmospheric rivers.

Vote: majority Appropriation: no Fiscal Committee: yes Local Program: no

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1. The Legislature finds and declares all of the following:

(a) Atmospheric rivers provide California with up to one-half its annual water supply and account for more than 90 percent of the state's flood damages.

(b) Research suggests that as the climate continues to warm, California will grow increasingly dependent on

atmospheric rivers for its water supply.

(c) Advances in the understanding and forecasting of atmospheric rivers underpins and extends the viability of forecast-informed reservoir operations, thereby enabling greater water supply reliability and flood protection across the state.

(d) Furthermore, research on atmospheric rivers can be used to refine climate projections of extreme weather and water events and changes in Sierra snow.

(e) Forecast-informed reservoir operations is a critical climate resilience strategy.

SEC. 2. The heading of Article 8 (commencing with Section 347) of Chapter 2.5 of Division 1 of the Water Code is amended to read:

Article 8. Atmospheric Rivers: Research, Mitigation, Rivers Research and Forecast Improvement Program: Enabling Climate Forecasting Adaptation Through Forecast-Informed Reservoir Operations and Hazard Resiliency (AR/FIRO)

SEC. 3. Section 347 of the Water Code is repealed.

~~347.(a)The Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program is hereby established in the Department of Water Resources.~~

~~(b)Upon appropriation of special fund moneys, including, but not limited to, private funds, for these purposes, the department shall conduct research relating to climate forecasting and the causes and impacts that climate change has on atmospheric rivers, and shall take all actions within its existing authority to operate reservoirs in a manner that improves flood protection in the state and to reoperate flood control and water storage facilities to capture water generated by atmospheric rivers, thereby increasing water supply, hydropower availability, and the reliability of water resources in the state.~~

SEC. 4. Section 347 is added to the Water Code, to read:

347. (a) The Atmospheric Rivers Research and Forecast Improvement Program: Enabling Climate Adaptation Through Forecast-Informed Reservoir Operations and Hazard Resiliency (AR/FIRO) Program is hereby established in the Department of Water Resources.

(b) (1) The department shall research, develop, and implement new observations, prediction models, novel forecasting methods, and tailored decision support systems to improve predictions of atmospheric rivers and their impacts on water supply, flooding, post-wildfire debris flows, and environmental conditions.

(2) The department shall take all actions within its existing authority to operate reservoirs in a manner that improves flood protection in the state and to reoperate flood control and water storage facilities to capture water generated by atmospheric rivers. The goals of integrating forecast-informed reservoir operations into department operations shall be to increase water supply, hydropower availability, and water supply reliability. The department may use research generated by this program to refine climate projections of extreme weather and water events and changes in Sierra snow.



**NORTH MARIN
WATER DISTRICT**

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March __, 2023

The Honorable Christopher M. Ward
California State Assembly
1021 O Street, Suite 8320
Sacramento, CA 95814

RE: AB 30 (Ward) Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program – Support (As Introduced December 5, 2022)

Dear Assemblymember Ward:

The North Marin Water District is pleased to support AB 30, co-sponsored by Sonoma County Water Agency (Sonoma Water), which would include Forecast Informed Reservoir Operations (FIRO) and integrate FIRO into the Department of Water Resources' (DWR) water supply operations and flood and hazard risk mitigation efforts. AB 30 updates and expands DWR's Atmospheric River Research and Forecast Improvement Program: Enabling Climate Adaption Through Forecast Informed Reservoir Operations and Hazard Resiliency Program (AR Program).

The North Marin Water District (NMWD) provides affordable and essential water and recycled water services to over 61,000 residents. NMWD's primary source of water is from the Russian River watershed supplied by Sonoma Water. Two major reservoirs, Lake Mendocino on the Russian River and Lake Sonoma on Dry Creek, supply water to the Russian River watershed. Both Lake Sonoma and Lake Mendocino are dual- purpose reservoirs in that they provide flood protection, managed by the U.S. Army Corps of Engineers (USACE) and water supply storage, managed locally by Sonoma Water.

Approximately half of the major rainfall from the Russian River watershed comes from atmospheric rivers, which greatly influence droughts and floods. Advancing observations and forecasts of atmospheric rivers amidst climate change and its impacts is critical to the successful adaptation of real-time water management and climate resilience. With the use of FIRO, Sonoma Water has worked closely with the USACE to determine how much water to hold behind the dam prior to impending atmospheric rivers to prevent flooding and to preserve water supply during times of extreme drought. Without the ability of forecasting weather events, USACE and Sonoma Water would have been required to release valuable water resources.

It is imperative that Sonoma Water's proven successes with the FIRO program be built upon to ensure the resiliency of the water sector at the local and state level. This can be accomplished by expanding the AR program to incorporate FIRO.

For these reasons, NMWD supports AB 30. Should you have any questions please contact me at (415) 897-4133 or twilliams@nmwd.com.

Sincerely,

Anthony Williams
General Manager

cc: Senator Mike McGuire
Assemblymember Damon Connolly

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MEMORANDUM

To: Board of Directors

March 7, 2023

From: Julie Blue, Auditor-Controller *JB*

Subj: Proposed FY 23/24 Budget Review and Rate Hearing Schedule
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RECOMMENDED ACTION: Approve

FINANCIAL IMPACT:

The below tables outline the schedule of Board meeting activities related to the fiscal year 2023/2024 budget review, budget approval, rate setting and prop 218 rate hearing schedule. The dates are scheduled to align with a proposed rate increase effective July 1, 2023.

PROPOSED BUDGET REVIEW SCHEDULE FY 2023-24

Date	Location	Item	Service Area	Review/Approve
May 2	Novato	Capital Improvement Plan	Novato/RW/WM/OM	Review
June 6	Novato	Operations & Maintenance and Capital Budget - District	Novato/RW/WM/OM	Review
June 20	Novato	Operations & Maintenance and Capital Budget - Novato and Recycled Water	Novato/Recycled Water	Approve
June 27	Pt Reyes	Operations & Maintenance and Capital Budget - West Marin Water	West Marin Water	Approve
June 27	Pt Reyes	Operations & Maintenance and Capital Budget - Oceana Marin Sewer	Oceana Marin Sewer	Approve

PROPOSED RATE HEARING SCHEDULE FY 2023-24

Action	Novato Potable & Recycled Water	West Marin Water & Oceana Marin Sewer
Consider Proposed Rates	April 4, 2023	April 4, 2023
Approve Letter to Customers	April 18, 2023	April 18, 2023
Customer Letter Postmark Deadline ⁽¹⁾	May 5, 2023	May 12, 2023
Rate Hearing	June 20, 2023	June 27, 2023
Rate Effective	July 1, 2023	July 1, 2023

⁽¹⁾ To meet minimum 45-day hearing notice requirement letters must be postmarked on or before the date shown.

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MEMORANDUM

To: Board of Directors

March 7, 2023

From: Tony Williams, General Manager *ABW*
Julie Blue, Auditor-Controller *JB*

Subj: Initial Review Sonoma Water FY 23/24 Water Transmission System Budget
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RECOMMENDED ACTION: None – Information Only

FINANCIAL IMPACT: Increase of \$137.60 (12.49%) per Acre-Foot

Attached is the draft Sonoma Water Transmission System Budget (Attachment 1) for Fiscal Year 2023/2024 (FY 23/24). The budget proposes NMWD water purchases at \$1,239.61 per acre-foot, versus \$1,101.82 per acre-foot this current fiscal year (page 2), an increase of 12.51%. This draft is being provided as information only in advance of the March 21, 2023 board meeting at which time Lynne Rosselli, Administrative Services Division Manager, and Jake Spaulding, Finance Manager, of Sonoma Water will present the budget.

ATTACHMENTS: 1 . Sonoma Water FY 23/24 Water Transmission Budget

Water Transmission FY 2023/2024 Draft Budget and Rates

This draft FY 2023/2024 Water Transmission Budget has been developed based on the prior 12-months of water deliveries of 41,847 Acre-Feet (AF). Due to the drought and the community's water conservation measures, budgeted deliveries are 8.5% less than FY 2022/2023. The draft budget is shown in the table below:

	FY22-23	FY23-24	
	Budget (in Millions)	Budget (in Millions)	Change (in Millions)
Operations and Maintenance	\$38.68	\$40.41	\$1.73
Capital Projects	\$13.25	\$12.28	(\$0.97)
Biological Opinion Compliance, Water Supply Planning, Water Conservation	\$13.89	\$9.78	(\$4.11)
Debt Service	\$6.01	\$5.83	(\$0.18)
Totals	\$71.83	\$68.30	(\$3.53)
Grants, Use of Fund Balance, and Bond Proceeds	\$15.31	\$18.15	\$2.84

FY 2023/2024 Draft Budget Financial Summary compared to FY 2022/2023 Adopted Budget: Factors affecting the rate increase:

Operations and Maintenance (O&M)

- 8.5% decrease in budgeted deliveries.
- 1% increase in water sales revenue
- FY 2023/2024 budgeted expenditures: \$40.41 million. An increase of \$1.73 million or 4.5%.
- \$640,000 in Use of Fund Balance.
- Budgeted expenditures increase is attributable to the tank recoat program, SCADA improvements, and large equipment purchases.
- Must have sufficient net operating revenues to meet 1.15x debt coverage bond covenant requirement.
- Water Sales Revenue Shortfall:
 - FY 2021/2022: \$1 million; FY 2022/2023: estimated \$4 million to \$6 million below budget.
- Actual Expenditures plus Encumbrances compared to Budgeted Expenditures tracked very closely in FY 2021/2022 and are anticipated to align closely in FY 2022/2023 with the exception of several projects that experienced unforeseen delays: Cathodic Protection, Tank Maintenance Program, SCADA improvements. Unspent budget from these projects is rolled forward to subsequent budget years to avoid being included in the rate calculation more than once. The FY 2023/2024 budget shows increased costs for these projects over prior years.
- Budgeted projects have been thoroughly reviewed and edited, and represent the budgeted work that can reasonably occur in FY 2023/2024. Budgeted maintenance projects are a priority and cannot be deferred further.
- 10.70% rate increase compared to 18.97% increase in FY 2022/2023.

Sonoma Water Identified certain maintenance projects that could be deferred. The O&M budget has been reduced by deferring \$2.4 million in maintenance projects: Deferring maintenance projects reduced the O&M rate increase from more than 20% to 10.70%. Deferred projects include:

- DeMuth Property Hydrogeologic Investigation
- Dive Services
- Emergency Inventory Procurement
- Hearn Avenue Electrical Project
- pH and Chlorine Systems Assessment
- Reduced Emergency Inventory Procurement
- Regional Water Emergency Prep Program Development
- Regional Water Supply Resiliency Study
- Russian River Operations Support
- Transmission System Condition Assessments
- Transmission System Monitoring Master Plan

Capital Projects

Capital Projects: FY 2023/2024 draft budgeted expenditures of \$12.28 million decreased by \$970,000 or 7%.

Hazard mitigation projects (\$6.3 million) and infrastructure improvement projects/drought resiliency projects (\$5.9 million) are fully funded by Water Revenue Bonds, grants, and existing rolled forward Fund Balance.

Investing in Infrastructure:

Construction: Hazard Mitigation Projects	\$5,468,900
Ely BPS Flood Control & Electrical Upgrade	600,000
RDS Pump and Motor Control Center Replacement	2,300,000
Wilfred Booster Station	2,568,900
Design: Hazard Mitigation Projects	\$866,300
Bennett Valley Fault Crossing	566,300
Seismic Retrofit of Storage Tanks	300,000
Construction: Other Capital Projects	\$5,389,600
Occidental Road Well	3,041,600
Warm Springs Dam Hydroturbine Retrofit	2,050,000
Wohler Bridge Fiber Optic Cable	298,000
Design Other Capital Projects	\$550,785
Mirabel/Wohler Storage Building	157,200
Ralphine Tanks Flow Thru Conversion	264,185
Sebastopol Road Well	79,400
South East Greenway Acquisition	50,000

Biological Opinion

- 8.5% decrease in deliveries
- 3% increase in revenue
- 44% decrease in expenditures
- \$3.50 million in Use of Fund Balance reduces rate increase from 266% to 9.94%
- 9.94% rate increase compared to -75.35% increase in FY 2022/2023 when \$7.5 million in Use of Fund Balance was budgeted.

Dry Creek Habitat Enhancement Phase 4 design activities have been completed. The U.S Army Corps anticipates construction of Phase 4 in the summer of 2023. Right-of-way activities are ongoing for all three phases. Sonoma Water has pending expenditure credits under review by the U.S. Army Corp. The credits may offset a portion of Sonoma Water's 35% cost share for Phases 4, 5, and 6 construction costs. The draft budget includes the addition of design, right-of way, and construction for Dry Creek Habitat Enhancement Phase 4 inlet 13B, ongoing costs for Phases 5 and 6 design, right-of way, and construction and other required biological opinion activities.

Among other ongoing biological opinion activities, Sonoma Water staff are currently working on revisions in anticipation of recirculating the Draft EIR in 2023.

In FY23/24, a \$150,000 match contribution has also been included for the Potter Valley Project Russian River Water Forum Grant application submitted to DWR under the 2022 Urban Community Drought Relief Grant Program. If the grant is awarded additional match would also be provided by the County of Sonoma, County of Mendocino, and the Sonoma Water Russian River Projects Fund.

Water Conservation

- 8.5% decrease in deliveries
- 0% increase in revenue
- 3% decrease in expenditures
- \$418,000 in Use of Fund Balance. Reduces rate increase from 34.88% to 13.85%.
 - FY 2022/2023 Adopted Budget used \$568,000 in Fund Balance to reduce the Water Conservation Rate Increase to 6.89%.
 - Without the Use of Fund Balance in the FY 2022/2023 Adopted budget, the Water Conservation rate increase would have been 34.88%.
 - Due to decreased deliveries, there is limited capacity to use Fund Balance in the FY 2023/2024 Adopted Budget.
- 13.85% rate increase compared to 6.89% increase in FY 2022/2023 when \$568,000 in Use of Fund Balance was budgeted.

Programmatic Summary and Effect on Rate Increase:

Sonoma Water and the Sonoma Marin Saving Water Partnership plan to continue work on drought related initiatives and corresponding outreach and education activities.

There was an expansion of programs (at the direction of the Water Contractors) to respond to the historical drought conditions after rates were set in FY21/22 and FY22/23. The costs of these programs were not captured in the previous years' rates and the expenses we therefore paid for by fund balance. These programs included a \$66,000 increase for Drought kits and prize giveaways, as well as \$40,000 in printed drought outreach materials, \$195,000 in advertising, and \$28,000 in ad-design services (photography, videos, and graphic design).

This year we are also proposing to apply for and if awarded administer a Department of Water Resources (DWR) grant through the Urban Community Drought Relief Grant Program. Pursuing this grant does increase the proposed rate in the subfund for FY23/24 by approximately 8.5% due to upfront match costs, which includes not only programmatic match, but also match from grant administration staff expenses that disproportionately fall

in FY23/24 (due to required agreements needed with the Partners) that are only 55 percent reimbursable. The programmatic costs also hit FY23/24 disproportionately due to the match requirements of the grant program. However, the grant ultimately covers 75% of total programmatic costs and the added benefit to the water contractors vastly outweighs the extra 8.5% rate increase that would be incurred. Additional benefits that will be realized for this cost include a commercial, industrial, and institutional (CII) sector Spatial Analysis to provide landscape area measurements (and non-functional turf measurement) needed for the CII standard of the statewide water conservation framework, a regional WaterSmart Plant Kit Program to convert 1.2 million square feet of turf to low water use landscaping, residential Water Smart Home Assessments, and additional QWEL trainings and development of a new QWEL greywater manual. Grant funds will be able to offset costs we would have incurred anyway for ongoing regional programs such as QWEL trainings, the annual Eco-Friendly Garden Tour, and the WaterSmart Plant Label Program, with some small expansion of this program included in the grant in direct support of marketing the WaterSmart Plant Kit program. Overall, however, these ongoing program costs will be significantly lower for the three-year period of the grant. Lastly, we are maximizing pre-award cost match to keep the programmatic match costs low.

The Water Conservation Subfund budget is otherwise only inclusive of what is needed to maintain existing successful regional programs of the Partnership, including the Water Education Program, Green Business Program, Garden Sense Program, Water Loss Working Group and Validation Services, QWEL Program, DIY Toolkit, Eco-Friendly Garden Tour, Russian River Friendly Landscaping, and the WaterSmart Plant Label Program. Additional funding is included to sustain the Partnership regional outreach campaigns, website, and regional representation for the developing Urban Water Use Objectives. No expanded services would be included for the plant label program (\$10,000) without the grant, and no reimbursement of future program costs for these ongoing programs would occur. The table below summarizes the budget and rates with and without the DWR grant.

FY 2022/2023 Water Conservation Rate: \$47.50

Budget and Rates without DWR Grant	Budget and Rates with DWR Grant	DWR Grant Benefits (over 3 years)
<p><u>Programs included:</u></p> <p>baseline projects</p> <p><u>FY 2023/2024 Expenditures</u> \$2,591,500</p> <p><u>FY2022/2023 vs FY 2023/2024</u> (\$2,175,924)</p> <p><u>% Decrease from PY</u> -46%</p> <p><u>FY 2023/2024 Rate</u> \$49.92</p> <p><u>FY 2023/2024 Rate Increase</u> 5.07%</p> <p>Total Water Transmission Rate Increase 10.17%</p>	<p><u>Programs included:</u></p> <p>baseline projects</p> <p><u>Plus:</u> CII Spatial Analysis WaterSmart Plant Kit Program Water Smart Home Assessments Additional QWEL trainings</p> <p><u>FY 2023/2024 Expenditures</u> \$4,615,242</p> <p><u>FY2022/2023 vs FY 2023/2024</u> (\$152,182)</p> <p><u>% Decrease from PY</u> -3%</p> <p><u>FY 2023/2024 Rate</u> \$54.08</p> <p><u>FY 2023/2024 Rate Increase</u> 13.85%</p> <p>Total Water Transmission Rate Increase 10.56%</p>	<p><u>Additional Programs</u> Spatial Analysis to meet new State Standards Additional Water saving programs for residents Additional QWEL Trainings QWEL greywater manual</p> <p>~\$3.8M in offsetting revenue for new and existing programs</p> <p>Conservatively, contingent on a number of factors, 3% rate increases on average are anticipated over three future fiscal years.</p>
<p>Net effect of Water Conservation Rate Increase on Total Water Transmission Rate Increase</p> <p>0.39%</p>		

Debt Service

Debt Service Expenditures decreased by \$180,000 or 3% resulting from the issuance of \$15M 2022 Water Revenue Bonds offset by the refinancing of the 2012 Water Revenue Bonds. S&P assigned a rating of “AAA” to the 2022 Bonds, the highest possible rating, which represented an affirmation of the existing credit rating on parity bonds. The 2022 Bonds were issued at a total interest cost of 3.32%. The refunding of the 2012 Bonds generated \$311,771 of present value savings or approximately 4.04% of the par amount refunded.

Summary

The draft proposed budget for FY 2023/2024 is based on accomplishing the required elements of the Biological Opinion, maintenance of facilities, and continued implementation of hazard mitigation and reliability projects, and projects responsive to the drought conditions.

Sonoma Water recognizes the profound impact of natural hazards and the COVID-19 pandemic to many residents, businesses, and our retail water contractors throughout our county and beyond. In response to the far-reaching financial hardships, Sonoma Water made a conscious effort to keep rate increases at a minimum while continuing to maintain system reliability and public health and safety. Sonoma Water has consistently kept

average rate increases at 4.62% and 4.68% over the past five and ten years respectively, lower than a 5% average rate increase, even with the 6.05% rate increase in FY 2022/2023.

Rate increases following the events impacting the county averaged 4.26% and were as follows:

Rate Increase History	Budget Year Following Event	Rate Increase
Tubbs Fire October 2017	FY 2018/2019	3.67%
Floods January-February 2019	FY 2019/2020	4.60%
Kincade Fire October 2019	FY 2020/2021	5.30%
Covid March 2020	FY 2021/2022	3.47%

Sources of revenue include water sales and charges for services, federal and state grants, existing fund balances, contributions, interest, and bond financing.

Revenues	FY 2023/2024 Draft Budget	Increase/(Decrease) over FY 2022/2023
Water Sales & Charges for Services	50,251,488	1%
Operating Grants	1,764,210	5,348%
Capital Grants	1,225,000	(75%)
Contributions	303,965	(75%)
Interest & Investment Earnings	1,004,962	677%
TOTAL	54,549,625	(2%)

Fund Balance	FY 2023/2024 Draft Budget	Increase/(Decrease) over FY 2022/2023
Use of Fund Balance: 37% from Operating Funds; 63% from Capital Funds	12,297,157	26%

Bond Funds	FY 2023/2024 Draft Budget	Increase/(Decrease) over FY 2022/2023
Use of Bond Funds	2,860,000	(56%)

Budget Requirements:

- Maintain 3-month operating reserve.
- Maintain 1.15x debt coverage bond covenant.
- Rates collect 1.15x debt service in accordance with the provisions of the Water Transmission System Master Ordinance.

Budget and Rate Reduction Measures reflected in the March 1 draft budget:

- Decreased rate increase from 20% to 10.56% in part by deferring \$2.4 million in operations and maintenance projects. Sonoma Water has been deferring millions of dollars of capital and maintenance projects annually to reduce rate increases. The \$2.4 million in deferred maintenance projects in this FY 2023/2024 Draft Budget is the maximum that can reasonably be deferred.
- Total expenditures budget is 4.91% lower than FY 2022/2023.
- Capital Program is fully funded by the 2022 sale of \$15 million in Revenue Bonds, grants, and fund balance. No contribution from Water Transmission O&M Fund.

- The contractors on the Santa Rosa AQ maintained their discretionary capital charge at \$11 resulting in a rate of 10.56%. The contractors on the Petaluma AQ have decreased their capital charge to \$0 reducing their rate to 9.42%. The contractors on the Sonoma AQ reduced their capital change from \$38 to \$34.90 reducing their rate to 10.56%.
- Use of \$18.15 million in grants, fund balance, and bond proceeds reduces the rate increase from 51.44% to 10.56%.
 - Use of Fund Balance: \$12.3 million. Unable to use more prudent reserve and remain compliant with debt coverage covenant.
 - Grant revenue: \$2.99 million
 - Bond proceeds: \$2.86 million
- Water Transmission System Total Cost per Gallon is \$0.004.

Factors affecting the Rate Increase:

- 8.5% decrease in budgeted water deliveries.
- Two years with actual water deliveries between 4% and an estimated 9% less than budget.
- 2.5% decrease in total revenue.
- 4.5% increase in O&M costs.
- 77% of the rate increase is attributable to the O&M budget, 14% to debt service, and 8% to the subfunds (Water Management, Watershed Planning and Restoration, Recycled Water and Local Supply, and Water Conservation).
- The net effect of the Water Conservation Rate Increase (including or excluding the proposed Department of Water Resources grant) on the Total Water Transmission Rate Increase is 0.39%.
- Increases in material and equipment costs for aging infrastructure and priority maintenance projects that can no longer be deferred, continued supply chain disruptions, long lead times on equipment, and the current inflationary environment are putting upward pressure on the Water Transmission System budget.

Proposed rates are shown in the table below:

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	41,847		
O&M	\$903.30	\$903.30	\$903.30
Water Management Planning	\$0.00	\$0.00	\$0.00
Watershed Planning & Restoration	\$35.96	\$35.96	\$35.96
Recycled Water and Local Supply	\$0.00	\$0.00	\$0.00
Water Conservation	\$54.08	\$54.08	\$54.08
Total O&M	\$993.34	\$993.34	\$993.34
Storage & Common Bond/Loan Charges	\$168.75	\$168.75	\$168.75
Sonoma Aqueduct Bond/Loan Charge			\$151.68
Prime Contractors	\$1,162.09	\$1,162.09	\$1,313.77
<u>Discretionary Charges</u>			
Capital Charges - to build fund balance for future projects	\$11.00	\$0.00	\$34.90
Total Prime Contractors	\$1,173.09	\$1,162.09	\$1,348.67
Total Overall Increase:	10.56%	9.42%	10.56%

• Deliveries: (Budget Packet Pages 9-14):

FY 2021/2022 Budget	FY 2021/2022 Actuals	FY 2022/2023 Budget	FY 2022/2023 Actuals	FY 2023/2024 Estimated Budget
<i>3-year Average</i>		<i>3-year average</i>		<i>12-months</i>
46,095.00	44,236.90	45,748.00	41,847	41,847
	4% less than budget		8.5% less than budget	FY22-23 vs FY23-24 Budget
Variance	(1,858.10)			(3,901)

FY 2022/2023 Budgeted Deliveries vs FY 2023/2024 Budgeted Deliveries	8.5% decrease
FY 2021/2022 Actuals vs FY 2022/2023 Estimated Actuals	5.4% decrease

- **Operations and Maintenance (O&M) – Water Transmission O&M Fund (Budget Packet Pages 15-24):**
 - In accordance with the Restructured Agreement for Water Supply:
 - The rate is calculated by dividing operations and maintenance expenditures (less specific cash and noncash revenues and expenditures) by budgeted deliveries.

O&M Fund	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$87.28	10.7%	Increase due to lower than budgeted water sales resulting in a lower delivery figure for budgeting.
Revenue	\$779,000	1.6%	Increase in revenue is attributable to the rate increase. Using an estimated \$1,500,000 in Prudent Reserve in FY22/23 to cover lower than anticipated deliveries and \$640,000 of fund balance in FY23/24 to reduce rate increase.
Expenditures	\$184,000	.3%	Increase is attributable to an increase in maintenance projects (cathodic protection, tank recoats, pump and valve replacements, chlorine and pH improvement projects, SCADA upgrades), studies (Regional Water Supply Resiliency, Watershed and Water Quality Seismic Mitigation Studies, Local Hazard Mitigation Plan), and emergency inventory procurement.

Factors affecting the O&M rate:

O&M Fund Expenditures	Increase (Decrease) in Dollars	Percent Change	Description
Labor	\$885,000	5.1%	Increase is attributable to an increase in labor costs for maintenance projects (cathodic protection, tank recoating program, tank maintenance program, pump and valve replacements, electrical projects, chlorine and pH improvement projects, SCADA upgrades), studies (Regional Water Supply Resiliency, Watershed and Water Quality Seismic Mitigation Studies, Local Hazard Mitigation Plan), emergency inventory procurement, and mitigation monitoring for recently completed FEMA projects, offset by decrease in labor for deferred maintenance projects.
Power	\$750,000	21.4%	Increase due to elevated energy production and transmission costs caused by drought, geopolitical events, and supply chain constraints.
Chemicals	\$75,000	10.7%	Increase due to Santa Rosa Plain Well activation.
Testing/Analysis	\$50,000	33.3%	Increase associated with expanded sampling and analysis tied to the Santa Rosa Plain Wells Projects as well as additional Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) testing.
Contract Services	(\$510,000)	-4.4%	Decrease attributable to \$1.36M in deferrals. Decrease offset by increased maintenance project costs attributable to Tank Maintenance and Tank Recoat Projects.
Maintenance - Equipment	(\$411,000)	-12.5%	Decrease attributable to lower budgeted expenses and \$380,000 in deferrals.
Small Tools - Instruments	\$50,000	50.0%	Increase reflects five-year average expenditures.
Operating Transfers	(\$276,000)	-2.7%	Operating Transfers (OT's) move revenue generated by rates into respective funds (debt service funds, subfunds, aqueduct capital funds and Common Facilities) and maintain appropriate fund balance.

- **Subfunds: (Budget Packet Pages 25-34):**

- Subfund rates are calculated by dividing subfund expenditures minus grant revenue by budgeted water deliveries.
- Water Management Planning:
 - Expenditures are for Urban Water Management Planning (UWMP) which is required to be updated every five years.

Water Management Planning	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$0.20)	-100.0%	Fiscal Year 2022/2023 rate is \$0.20. Fund is for Urban Water Management Plan updates and the Annual Water Supply & Demand Assessment. Past increases have accumulated fund balance and allow rate to be set at \$0 in FY23/24. Current Urban Water Management Plan was submitted in Fiscal Year 2021.
Revenue	(\$6,000)	-52.0%	Using an estimated \$100,000 in fund balance to decrease rate to \$0 resulting in lower revenue.
Expenditures	\$25,000	33.3%	Budget increase is due to staff time related to the annual water supply and demand assesment. Budget request is for follow-up meetings, responding to State Department of Water Resources and contractor requests, tracking regulatory compliance changes, and coordinating with climate adaption strategic planning efforts.

- Watershed Planning and Restoration:

- Expenditures are for planning, design, and implementation of watershed restoration projects and projects required under the Biological Opinion.

Watershed Planning and Restoration	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$3.25	9.9%	Fiscal Year 2022/2023 rate is \$32.70. Rate increase is primarily a result of an 8.5% decrease in deliveries. Rate of \$120/AF based on \$5M in expenditures and 41,847 AF is reduced to \$35.96/AF by using \$3.5 million in fund balance.
Revenue	\$47,000	2.9%	Increase due to subfund rate increase offset by use of fund balance to reduce and smooth overall rate increase.
Expenditures	(\$3,992,000)	-44.4%	Decrease in expenditures is a result of reduced budgeted cost share due to U.S. Army Corps credits for Sonoma Water's share of costs for construction of Dry Creek Habitat Enhancement phases 4, 5, and 6. Budget includes addition of the PVP RR Water Forum Two Basin Solution Phase 2 - DWR 2022 Urban Community Drought Relief Grant Program match, and ongoing costs for Dry Creek Habitat Enhancement Phases 4, 5, 6, and phase 4 inlet 13B and other required biological opinion activities.

- Recycled Water and Local Supply:
 - Expenditures are for planning, design, and implementation of recycled water and local supply projects. The fund previously included water contractor projects under the Local Recycled Water Tier 2 (LRT2) Program.

Recycled Water and Local Supply	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$0.50)	-100.0%	Fiscal Year 2022/2023 rate is \$0.50. Due to accumulated fund balance budget reduces rate to \$0 in FY23/24.
Revenue	(\$19,000)	-75.2%	Using an estimated \$56,000 in fund balance to decrease rate to \$0 resulting in lower revenue.
Expenditures	\$0	0.0%	No increase anticipated over FY2022-2023 budget. Expenditures are for Sonoma Water's share of Groundwater Sustainability Agencies' budgets.

Water Conservation:

- Expenditures are for water use efficiency projects, outreach, and education.

Water Conservation	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$6.58	13.8%	Fiscal Year 2022/2023 rate is \$47.50. Rate increase is primarily a result of an 8.5% decrease in deliveries. Rate of \$63.06/AF based on \$2.6M of net expenditures and 41,847 AF is reduced to \$54.08/AF by using \$418,000 in fund balance.
Revenue	\$14,000	0.3%	Increase due to subfund rate increase offset by use of fund balance to reduce and smooth overall rate increase.
Expenditures	(\$152,000)	-3.2%	Decrease is associated with offsetting grant revenue from DWR Urban Community Drought Relief Grant Program. Expenditures used to implement water use efficiency, outreach and education projects, address drought conditions and ongoing water conservation needs, and pass-through grant funds to water contractors and other partners.

- **Storage, Common, and Sonoma Bond/Loan Charges: (Budget Packet Pages 45-59):**
 - The rates are calculated by dividing the annual debt service and reserve requirements (2015A, 2019A, and 2022A Water Revenue Bonds) by water deliveries.

Storage and Common Bond/Loan Charges	Increase (Decrease) in Dollars	Percent Change	Description
Storage Bond/Loan Charge	\$2.59	9.8%	Fiscal Year 2022/2023 rate is \$26.55. Rate is based on revenue requirement for debt service divided by water deliveries. Total Debt service lower than previous year due to savings associated with refunding in the 2022 Revenue Bond Issuance. Rate increase is due to decrease in budgeted water deliveries.

Storage and Common Bond/Loan Charges	Increase (Decrease) in Dollars	Percent Change	Description
Common Bond/Loan Charge	\$13.05	10.3%	Fiscal Year 2022/2023 rate is \$140.41. Rate is based on revenue requirement for debt service divided by water deliveries. Total Debt service lower than previous year due to savings associated with refunding in the 2022 Revenue Bond Issuance. Rate increase is due to decrease in budgeted water deliveries.
Sonoma Aqueduct Bond/Loan Charge	\$20	15.0%	Fiscal Year 2022/2023 rate is \$151.68. Sonoma Aqueduct pays an additional revenue bond charge for the bonds associated with Sonoma Booster Station Electrical Upgrade and Pumping Reliability Project, Bennett Valley Fault Crossing Project, and other Creek Crossing Projects on the Aqueduct. Total Debt service lower than previous year due to savings associated with refunding in the 2022 Revenue Bond Issuance. Rate increase is due to decrease in budgeted water deliveries.
<p>***S&P assigned a rating of "AAA" to the 2022 Bonds, the highest possible rating, which represented an affirmation of the existing credit rating on parity bonds. The 2022 Bonds were issued at a total interest cost of 3.32%. The refunding of the 2012 Bonds generated \$311,771 of present value savings or approximately 4.04% of the par amount refunded.</p>			

Aqueduct Capital Charge: (Budget Packet Page 1):

- A discretionary charge is added by the water contractors to build fund balance for future aqueduct capital projects and to provide rate stabilization capacity.
- The FY 2022-2023 draft budget includes a \$11 per Acre-Foot charge for the Santa Rosa Aqueduct, a \$12 per Acre-Foot charge for the Petaluma Aqueduct, and a \$38 per Acre-Foot charge for the Sonoma Aqueduct.
- The FY 2023-2024 draft budget includes a \$11 per Acre-Foot charge for the Santa Rosa Aqueduct, a \$0 per Acre-Foot charge for the Petaluma Aqueduct, and a \$34.90 per Acre-Foot charge for the Sonoma Aqueduct.

Overall Draft Proposed Rate Increases: (Budget Packet Pages 1-8):

- 10.56% (Santa Rosa Aqueduct); 9.42% (Petaluma Aqueduct); 10.56% (Sonoma Aqueduct)
- FY 2023/2024 budgeted deliveries are based on 12 months of deliveries (41,847AF). FY 2023/2024 budgeted deliveries are 8.5% less than FY 2022/2023 budgeted deliveries.
- The FY2023/2024 budget accommodates an increase in maintenance projects (cathodic protection, pump and valve replacements, chlorine and pH improvement projects, tank recoats), studies (Regional Water Supply Resiliency, Watershed and Riverbank Filtration Water Quality Studies), emergency inventory purchases, Biological Opinion Flow EIR and Dry Creek Habitat Enhancement design and right-of-way for phases 4 inlet 13B, 5, and 6, and construction for phases 4, and 5, two DWR the Urban Community Drought Relief Grant Programs, and investment in hazard mitigation and other capital infrastructure projects.

FY 2023-2024 Capital Projects

(Budget Packet Pages 35-44):

Water Transmission Budget
Capital Projects Summary

FY23-24

Project	Category	Amount	Status
Ely BPS Flood Control & Electrical Upgrade	Petaluma AQ	600,000	Award Q3 FY21/22; Completion in Q2 FY23/24
Wilfred Booster Station	Petaluma AQ	2,568,900	60% design; Award in FY23/24
Bennett Valley Fault Crossing	Sonoma AQ	283,150	Consultant selected FY22/23, 30% design Q3 FY22/23. Anticipate award in FY25/26
Bennett Valley Fault Crossing	Storage	283,150	Consultant selected FY22/23, 30% design Q3 FY22/23. Anticipate award in FY25/26
Seismic Retrofit of Storage Tanks	Storage	300,000	Preliminary design; Tied to Tank Recoat schedule
South East Greenway Acquisition	Storage	50,000	ROW timing pending CalTrans transfer of property to SR, anticipate FY 23/24
Ralphine Tanks Flow Thru Conversion	Storage	264,185	Preliminary design, Anticipate award FY24/25
Mirabel/Wohler Storage Building	Common	157,200	Preliminary design, Anticipate award FY24/25
RDS Pump and Motor Control Center Replacement	Common	2,300,000	Preliminary design; Award in FY23/24
Occidental Road Well	Common	3,041,600	Design 22/23; Construction 23/24
Sebastopol Road Well	Common	79,400	Construction FY22/23 & FY23/24
Warm Springs Dam Hydroturbine Retrofit	Common	2,050,000	Re-issue equipt. RFP. Award construction FY 23/24
Wohler Bridge Fiber Optic Cable	Common	298,000	Public Works Project expected summer 23/24
TOTAL		12,275,585	
Santa Rosa AQ		-	
Petaluma AQ		3,168,900	
Sonoma AQ		283,150	
Storage		897,335	
Common		7,926,200	
		12,275,585	

Sonoma County Water Agency
Fiscal Year 2023/2024 Draft Water Transmission Budget and Rates

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Fiscal Year 2023/2024

Prime Contractor Rates Summary

CHARGE PER ACRE FOOT:

	Santa Rosa	Petaluma	Sonoma	FY22-23			Percent Change
	Aqueduct	Aqueduct	Aqueduct	SR	Pet	Son	
O&M Charge [4.2]	903.30	903.30	903.30	\$816.03	\$816.03	\$816.03	10.70%
Water Management Planning Sub-charge [4.13]	0.00	0.00	0.00	\$0.20	\$0.20	\$0.20	-100.00%
Watershed Planning/Restoration Sub-charge [4.14]	35.96	35.96	35.96	\$32.70	\$32.70	\$32.70	9.94%
Recycled Water & Local Supply Sub-charge [4.15]	0.00	0.00	0.00	\$0.50	\$0.50	\$0.50	-100.00%
Water Conservation Sub-charge [4.16]	54.08	54.08	54.08	\$47.50	\$47.50	\$47.50	13.85%
O&M Charge	993.34	993.34	993.34	\$896.93	\$896.93	\$896.93	10.75%
Storage and Common Bond & Loan Charges	168.75	168.75	168.75	\$153.11	\$153.11	\$153.11	10.22%
Sonoma Aqueduct Bond Charge			151.68			\$131.87	15.0%
PRIME CONTRACTORS	\$1,162.09	\$1,162.09	\$1,313.77	\$1,050.04	\$1,050.04	\$1,181.90	10.67%
Capital Charges - to build fund balance for future projects	11.00	0.00	34.90	\$11.00	\$12.00	\$38.00	0%
PRIME CONTRACTORS	11.00	0.00	34.90	\$11.00	\$12.00	\$38.00	0%
TOTAL PRIME CONTRACTORS	\$1,173.09	\$1,162.09	\$1,348.67	\$1,061.04	\$1,062.04	\$1,219.90	10.56%
Increase from Fiscal Year 2022/2023	10.56%	9.42%	10.56%	9.73%	9.83%	10.18%	
With No Capital Charge	9.52%	9.42%	7.69%				

Deliveries:

	12-month	36-month
FY14-15		46,000
FY15-16	50,590	
FY16-17	40,524	
FY17-18	41,446	
FY18-19		41,768
FY19-20		43,870
FY20-21	43,707	
FY21-22		46,095
FY22-23		45,748
FY23-24	41,847	

Fiscal Year 2023/2024

Prime Contractor Rates Summary

CHARGE PER ACRE FOOT:

Petaluma AQ

	NMWD	NMWD	Percent Change
	FY23-24	FY22-23	
O&M Charge [4.2]	903.30	\$816.03	10.70%
Water Management Planning Sub-charge [4.13]	0.00	\$0.20	-100.00%
Watershed Planning/Restoration Sub-charge [4.14]	35.96	\$32.70	9.94%
Recycled Water & Local Supply Sub-charge [4.15]	0.00	\$0.50	-100.00%
Water Conservation Sub-charge [4.16]	54.08	\$47.50	13.85%
O&M Charge	993.34	\$896.93	10.75%
North Marin Bond & Loan Charge [4.9]	93.16	\$75.61	23.21%
Russian River Conservation Charge [4.18 (a)]	137.33	\$115.36	19.04%
Russian River Projects Charge [4.18 (b)]	15.79	\$13.92	13.41%
<u>TOTAL NMWD</u>	<u>\$1,239.61</u>	<u>\$1,101.82</u>	<u>12.51%</u>

	Rates	Rate Increase
Town of Windsor	\$1,173.09	10.56%
Town of Windsor (Diverted Water)	\$90.03	11.28%
NMWD	1,239.62	12.51%
MMWD	\$1,455.25	11.25%

WATER TRANSMISSION SYSTEM
 FY23-24 WATER CHARGES PER ACRE-FOOT
 FOR PRIME CONTRACTORS

FISCAL YEAR	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)
2023 - 2024	1173.09	10.56%	1162.09	9.42%	1348.67	10.56%
2022 - 2023	1061.04	6.05%	1062.04	6.15%	1219.90	6.52%
2021 - 2022	1000.46	3.47%	1000.46	3.47%	1145.18	3.43%
2020 - 2021	966.95	5.30%	966.95	5.30%	1107.21	5.57%
2019 - 2020	918.30	4.60%	918.30	4.60%	1048.80	4.77%
2018 - 2019	877.88	3.67%	877.88	3.67%	1001.06	5.98%
2017 - 2018	846.78	4.98%	846.78	4.98%	944.56	5.58%
2016 - 2017	806.59	5.98%	806.59	5.98%	894.62	6.94%
2015 - 2016	761.05	4.16%	761.05	4.16%	836.55	5.46%
2014 - 2015	730.68	3.60%	730.68	3.60%	793.24	3.19%
2013 - 2014	705.30	4.95%	705.30	4.95%	768.75	3.84%
2012 - 2013	672.03	5.98%	672.03	5.98%	740.34	5.26%
2011 - 2012	634.11	5.00%	634.11	5.00%	703.33	4.28%
2010 - 2011	603.92	6.93%	603.92	6.93%	674.47	8.42%
2009 - 2010	564.78	19.88%	564.78	10.50%	622.11	27.95%
2008 - 2009	471.13	6.66%	511.13	10.71%	486.22	7.22%
2007 - 2008	441.70	2.41%	461.70	2.31%	453.49	2.46%
2006 - 2007	431.29	4.51%	451.29	4.30%	442.60	4.26%
2005 - 2006	412.68	2.53%	432.68	2.41%	424.53	2.44%
2004 - 2005	402.51	2.19%	422.51	2.08%	414.42	1.59%
2003 - 2004	393.89	1.65%	413.89	4.02%	407.95	5.30%
2002 - 2003	387.49	1.10%	397.90	3.61%	387.43	3.76%
2001 - 2002	383.29	15.88%	384.02	15.80%	373.38	16.41%

**WATER TRANSMISSION SYSTEM
FY23-24 REVENUE SUMMARY CHART**

WATER CUSTOMER	FY23-24 Budgeted Water Use (Acre-Feet)	FY22-23 Rate \$/Acre-Foot	FY23-24 Proposed Rate \$/Acre-Foot	Dollar Change	Percent Change
Santa Rosa Aqueduct	15,373	\$1,061.04	\$1,173.09	\$112.05	10.56%
Petaluma Aqueduct	8,034	1,062.04	1,162.09	\$100.05	9.42%
Sonoma Aqueduct	3,383	1,219.90	1,348.67	\$128.77	10.56%
North Marin Water District	5,303	1,101.82	1,239.62	\$137.81	12.51%
Marin Municipal – Fourth Off Peak	4,300	1,308.14	1,455.25	\$147.11	11.25%
Marin Municipal – Supplemental	3,639	1,308.14	1,455.25	\$147.11	11.25%
Forestville Aqueduct	342	1,061.04	1,173.09	\$112.05	10.56%
Wholesale/Municipal	889	1,463.87	1618.394	\$154.52	10.56%
Surplus	47	1,076.32	1,192.01	\$115.69	10.75%
Windsor	535	1,061.04	1,173.09	\$112.05	10.56%
TOTAL	41,847				

SONOMA COUNTY WATER AGENCY RATES FOR WATER DELIVERIES IN FY23-24

[x] ESTIMATED [] OFFICIAL

CHARGE PER ACRE FOOT:

	Santa Rosa Aqueduct	Petaluma Aqueduct	Sonoma Aqueduct
PRIME CONTRACTORS			
O&M Charge [4.2]	\$903.30	\$903.30	\$903.30
Water Management Planning Sub-charge [4.13]	\$0.00	\$0.00	\$0.00
Watershed Planning/Restoration Sub-charge [4.14]	\$35.96	\$35.96	\$35.96
Recycled Water & Local Supply Sub-charge [4.15]	\$0.00	\$0.00	\$0.00
Water Conservation Sub-charge [4.16]	\$54.08	\$54.08	\$54.08
O&M Charge	\$993.34	\$993.34	\$993.34
<u>Bond & Loan Charges - to pay for existing debt service</u>			
Storage Facilities Capital Charge [4.7]	29.14	29.14	29.14
Common Facilities Capital Charge [4.8]	139.61	139.61	139.61
Sonoma Aqueduct Facilities Capital Charges [4.6 b]			151.68
<i>Total Bond & Loan Charges</i>	\$168.75	\$168.75	\$320.43
<i>Discretionary:</i>			
<u>Aqueduct Capital Charges - to build fund balance for future projects</u>			
Aqueduct Facilities Capital Charges [4.6 e]	11.00	0.00	34.90
LRT2 - included in Recycled Water & Local Supply Sub-Charge above.			
TOTAL PRIME CONTRACTORS	\$1,173.09	\$1,162.09	\$1,348.67
Charge without LRT2 and voluntary AQ Capital Charge	\$1,162.09	\$1,162.09	\$1,313.77
OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES			
<u>(WATER CO'S & PUBLIC AGENCIES)</u>			
O&M Charge	\$993.34	\$993.34	\$993.34
Capital Charges	168.75	168.75	320.43
Aqueduct Facilities Capital Charge [4.12]	\$456.30	\$456.30	\$304.62
TOTAL OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES (4.12)	\$1,618.39	\$1,618.39	\$1,618.39
<i>(120% OF HIGHEST PRIME)</i>			
FORESTVILLE			
O&M Charge [4.2] *	\$903.30		0.08
Water Management Planning Sub-charge [4.13]	-		
Watershed Planning/Restoration Sub-charge [4.14]	35.96		
Recycled Water & Local Supply Sub-charge [4.15]	-		
Water Conservation Sub-charge [4.16]	54.08		
O&M Charge	\$993.34		
<u>Bond & Loan Charges - to pay for existing debt service</u>			
Aqueduct Facilities Capital Charges [4.6]	11.00		
Storage Facilities Capital Charge [4.7]	29.14		
Common Facilities Capital Charge [4.8]	139.61		
<i>Total Capital Charges</i>	\$179.75		
TOTAL FORESTVILLE	\$1,173.09		
* Forestville Water District was exempt from Santa Rosa Aqueduct sub-charge from FY 06/07 to FY 16/17 [4.12].			
NORTH MARIN WATER DISTRICT			
O&M Charge		\$993.34	Note: N. Marin pays
North Marin Bond & Loan Charge [4.9]		93.16	bond and loan charge
Russian River Conservation Charge [4.18 (a)]		137.33	in lieu of Capital Charge.
Russian River Projects Charge [4.18 (b)]		15.79	
TOTAL NORTH MARIN WATER DISTRICT		1,239.62	
FOURTH OFF-PEAK (MARIN MUNICIPAL)			
Highest Prime on SR and PET AQ x 1.11		\$1,302.13	
Russian River Conservation Charge		137.33	
Russian River Projects Charge		15.79	
TOTAL FOURTH OFF-PEAK		\$1,455.25	
SUPPLEMENTAL (MARIN MUNICIPAL)			
Highest Prime on SR and PET AQ x 1.11		\$1,302.13	
Russian River Conservation Charge		137.33	
Russian River Projects Charge		15.79	
TOTAL SUPPLEMENTAL		\$1,455.25	
SURPLUS			
Non-Municipal / Municipal [4.11 (a)]	\$1,192.01	\$1,192.01	\$1,192.01
<i>(120% of O&M Charge)</i>			
Town of Windsor			
		\$1,173.09	
Beginning in FY22/23 all water delivered to Town of Windsor is charged at the the Santa Rosa Aqueduct rate [4.17 (a)]. Town of Windsor pays all subcharges [4.13, 4.14, 4.15, and 4.16] on all water they divert from the Russian River using their equipment [4.17 (b)].			
	\$1,173.09		

The applicable section of the Restructured Agreement has been indicated in brackets.

FY 2023-24 BUDGET
SONOMA COUNTY WATER AGENCY
Operations and Maintenance Rate Computation

O & M REVENUE REQUIREMENT

FY23-24	ESTIMATED FISCAL YEAR EXPENDITURES	\$57,263,297
	685.02	
LESS:		
Depreciation Amortization		6,832,000
Investment Income, Interest on Pooled Cash, Charges for Services		249,895
Power Sales		100,000
PWRPA Pre-paid Expense - FY 08/09 Rate Reduction- <i>One time only</i> "Mandatory Prudent Reserve" charge		
Use of Fund Balance		640,000
Recycled Water funds (Sub-object 7277) taken from special reserve		0
Transfers Out		10,019,899
		10,019,899
REVENUE REQUIREMENT (Net Expenditures)		\$39,421,502

O & M ACRE FOOT BASE

DELIVERIES:		41,847.2
LESS:		
Marin Municipal Surplus (Irrigation)		7,938.9
		47.3
		47.3
TOTAL BASE DELIVERIES		33,861.0

O & M RATE COMPUTATION:

Rate = Revenue Requirement - (Marin Municipal Deliveries x 1.11 x 0.92568 x Highest Prime Rate
on Petaluma or Santa Rosa Aqueduct - Subfunds)
Total Deliveries - Surplus Deliveries - Marin Muni Deliveries

$$= \frac{39,421,502 - (4,300.00 \times 1112.84) - (3,638.90 \times 1112.84)}{41,847.2 - 47.3 - 7,938.9}$$

* = 903.30

FY23-24
Proposed Water Rates

	<u>FY22-23</u>	<u>FY23-24</u>	
	(Actual)	(Proposed)	% Change
O&M Charge	816.03	903.30	10.70%
Water Management Planning Sub-Charge	0.20	0.00	-100.00%
Watershed Planning/Restoration Sub-Charge	32.70	35.96	9.94%
Recycled Water Sub-Charge	0.50	0.00	-100.00%
Water Conservation Sub-Charge	47.50	54.08	13.85%
Total O&M Charge	896.93	993.34	10.75%

Santa Rosa Aqueduct Rate

O&M Charge	896.93	993.34	10.75%
Aqueduct Facilities Capital Charges [4.6 e]	11.00	11.00	0.0%
Storage Facilities Capital Charge [4.7]	26.55	29.14	9.76%
Common Facilities Capital Charge [4.8]	126.56	139.61	10.31%
TOTAL	1061.03	1173.09	10.56%

Petaluma Aqueduct Rate

O&M Charge	896.93	993.34	10.75%
Aqueduct Facilities Capital Charges [4.6 e]	12.00	0.00	-100.0%
Storage Facilities Capital Charge [4.7]	26.55	29.14	9.76%
Common Facilities Capital Charge [4.8]	126.56	139.61	10.31%
TOTAL	1062.03	1162.09	9.42%

Sonoma Aqueduct Rate

O&M Charge	896.93	993.34	10.75%
Aqueduct Facilities Capital Charges [4.6 e]	38.00	34.90	-8.2%
Storage Facilities Capital Charge [4.7]	26.55	29.14	9.76%
Common Facilities Capital Charge [4.8]	126.56	139.61	10.31%
Sonoma Aqueduct Facilities Capital Charge	131.87	151.68	15.02%
TOTAL	1219.90	1348.67	10.56%

SONOMA COUNTY WATER AGENCY
RUSSIAN RIVER CONSERVATION CHARGE COMPUTATION

FISCAL YEAR 2023-24

PROPERTY ASSESSMENT VALUES AS OF FY22-23:

<u>TAX CODE</u>	<u>ENTITY</u>	<u>SECURED</u>	<u>UNSECURED</u>	<u>TOTAL VALUE</u>
14000	Forestville Co Water District	515,933,061	2,302,623	\$518,235,684
42800	City of Cotati	1,342,132,391	29,258,828	1,371,391,219
43500	City of Petaluma	11,842,325,315	468,775,648	12,311,100,963
43800	City of Rohnert Park	6,718,411,430	166,127,188	6,884,538,618
44500	City of Santa Rosa	28,489,889,874	912,923,827	29,402,813,701
45000	City of Sonoma	3,375,490,571	92,445,286	3,467,935,857
N/A	Valley of the Moon Water District	4,215,365,914	19,985,195	4,235,351,109
	TOTAL	\$56,499,548,556	\$1,691,818,595	\$58,191,367,151

Notes:

- 1 Total value of secured and unsecured property in service areas of Prime Water Contractors of Sonoma County (see above) \$58,191,367,151
- 2 2016-17 Sonoma County tax rate per \$100 of full cash value assessed for payment of Warm Springs Dam Project Obligations 0.007
- 3 Total tax levied on citizens residing in service areas of Prime Water Contractors of Sonoma County, i.e., (Line 1/100) x Line 2 \$4,073,396
- 4 Total acre feet of water delivered to Prime Water Contractors of Sonoma County (excluding North Marin and Town of Windsor) plus deliveries to Forestville during the prior 12 month period ending March 31. 29,660.34
- 5 Total Russian River Conservation Charge per Acre Foot (Line 3 / Line 4) \$137.33

Russian River Projects Charge

Historical calculations

RR Conservation Charge

Historical calculations

For FY	Calculated	Actual Charge	
06-07	17.02	\$17.02	\$48.33
07-08	21.4	\$20.00	\$52.70
08-09	25.08	\$20.00	\$58.44
09-10	24.68	\$20.00	\$57.70
10-11	24.4	\$20.00	\$74.62
11-12	23.44	\$20.00	\$72.27
12-13	20.38	\$20.00	\$72.08
13-14	14.72	\$14.72	\$63.30
14-15	8.72	\$8.72	\$63.90
15-16	12.39	\$12.39	\$69.38
16-17	12.96	\$12.96	\$78.73
17-18	13.08	\$13.08	\$105.78
18-19	9.13	\$9.13	\$109.75
19-20	8.34	\$8.34	\$102.09
20-21	8.68	\$8.68	\$106.12
21-22	10.63	\$10.63	\$115.94
22-23	13.92	\$13.92	\$115.36
23-24	15.79	\$15.79	\$137.33

**SCHEDULE OF WATER DELIVERIES BY AQUEDUCT
PAST 36 MONTHS / 12 MONTHS AVERAGE**

		DELIVERING AQUEDUCT				Monthly
		Santa Rosa	Petaluma	Forestville	Sonoma	Total
36	Jan-20	1,029.5	1,198.3	18.9	168.7	2,415.4
35	Feb-20	1,100.9	1,411.3	20.3	170.5	2,702.9
34	Mar-20	1,258.5	1,644.6	22.2	268.9	3,194.3
33	Apr-20	1,483.7	1,749.8	27.9	289.9	3,551.3
32	May-20	1,532.6	1,713.9	30.7	356.7	3,633.9
31	Jun-20	1,700.7	2,162.3	42.3	471.0	4,376.3
30	Jul-20	2,458.9	2,844.2	55.9	631.6	5,990.6
29	Aug-20	1,889.6	2,304.7	47.2	532.0	4,773.5
28	Sep-20	1,656.9	2,133.9	42.0	444.3	4,277.1
27	Oct-20	2,108.6	2,653.4	52.5	522.1	5,336.7
26	Nov-20	1,318.5	2,013.1	31.8	360.4	3,723.7
25	Dec-20	1,329.1	2,126.5	27.3	289.9	3,772.8
24	Jan-21	1,341.2	2,161.8	25.8	251.8	3,780.6
23	Feb-21	1,137.9	1,750.8	20.3	176.2	3,085.1
22	Mar-21	1,066.4	2,050.6	21.7	170.9	3,309.6
21	Apr-21	1,617.8	3,025.1	36.1	373.9	5,052.9
20	May-21	1,402.9	2,533.3	40.4	388.6	4,365.2
19	Jun-21	1,450.2	2,468.5	40.2	421.5	4,380.3
18	Jul-21	1,863.3	2,297.6	51.0	466.7	4,678.6
17	Aug-21	1,507.9	1,705.1	39.5	315.6	3,568.1
16	Sep-21	1,455.3	1,654.3	36.8	298.1	3,444.4
15	Oct-21	1,514.3	1,842.1	36.7	306.9	3,700.0
14	Nov-21	968.6	1,552.0	17.4	215.8	2,753.9
13	Dec-21	1,228.0	2,149.4	23.5	268.1	3,669.0
12	Jan-22	1073.2	1423.2	18.6	205.2	2,720.2
11	Feb-22	1041.5	1861.2	20.0	195.4	3,118.1
10	Mar-22	1227.5	2175.2	26.0	237.7	3,666.4
9	Apr-22	1233.9	2107.2	24.0	250.7	3,615.8
8	May-22	1649.3	2923.1	33.1	378.7	4,984.0
7	Jun-22	1448.3	2456.3	33.3	380.6	4,318.5
6	Jul-22	1415.9	1538.8	34.9	358.4	3,348.0
5	Aug-22	1752.9	1762.2	44.6	382.9	3,942.7
4	Sep-22	1459.2	1453.6	35.2	277.2	3,225.2
3	Oct-22	1430.9	1549.8	30.9	274.3	3,285.8
2	Nov-22	1132.2	1427.5	23.3	231.8	2,814.8
1	Dec-22	1091.1	1487.9	18.5	210.2	2,807.7
Total Deliveries		51,377.2	71,312.4	1,150.5	11,543.2	135,383.3
3-Year Annual Average		17,125.7	23,770.8	383.5	3,847.7	45,127.8
Past 12 Months		15,955.9	22,165.9	342.3	3,383.1	41,847.2
Total Deliveries		51,377.2	71,312.4	1,150.5	11,543.2	135,383.3
Less: North Marin			19,419.5			19,419.5
Marin Municipal			22,202.3			22,202.3
Sonoma Co. Deliveries		51,377.2	29,690.5	1,150.5	11,543.2	93,761.4
3-Year Annual Average		17,125.7	9,896.8	383.5	3,847.7	31,253.8

FY 2023-24 BUDGET

Water Transmission System Agency Fund

ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - O&M</u>			
1 PRIMES without Subcharges	32,971.5	903.30	29,783,323
2 OTHER AGENCY CUSTOMERS	889.4	1,528.36	1,359,372
3 MARIN MUNICIPAL (OFF-PEAK)	4,300.0	1,112.84	4,785,227
4 MARIN MUNICIPAL (SUPPLEMENTAL)	3,638.9	1,112.84	4,049,523
5 SURPLUS CUSTOMERS	47.3	1,101.97	52,144
TOTAL WATER SALES - O&M	41,847.2	N/A	\$40,029,589

Note: MMWD rate adjusted per Amended MMWD Water Supply Agreements Effective 7/1/15.

Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - Sub-charges</u>			
1a Water Management Planning Sub-charge [4.13]	41,847.2	0.00	0
1b Watershed Planning/Restoration Sub-charge [4.14]	41,847.2	35.96	1,504,670
1c Recycled Water & Local Supply Sub-charge [4.15]	41,847.2	0.00	0
1d Water Conservation Sub-charge [4.16]	41,847.2	54.08	2,263,032
TOTAL WATER SALES - Subcharges	41,847.2	N/A	\$3,767,702

FY 2023-24 BUDGET

Water Transmission System Agency Fund

SANTA ROSA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - O&M</u>			
1 SANTA ROSA AQUEDUCT	15,955.9	903.30	14,413,004

Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - Sub-charges</u>			
1a Water Management Planning Sub-charge [4.13]	15,955.9	0.00	0
1b Watershed Planning/Restoration Sub-charge [4.14]	15,955.9	35.96	573,714
1c Recycled Water & Local Supply Sub-charge [4.15]	15,955.9	0.00	0
1d Water Conservation Sub-charge [4.16]	15,955.9	54.08	862,869
TOTAL WATER SALES - Subcharges	15,955.9	N/A	\$1,436,583

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>CAPITAL CHARGES</u>			
Aqueduct Facilities Capital Charges [4.6 e]	15,955.9	11.00	175,515
<u>BOND AND LOAN CAPITAL CHARGES</u>			
Storage Facilities Capital Charge [4.7]	15,955.9	29.14	464,977
Common Facilities Capital Charge [4.8]	15,955.9	139.61	2,227,580
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	15,955.9	0.00	0
TOTAL WATER SALES - Capital & Bond and Loan Charges	15,955.9	N/A	\$2,868,072

TOTAL ESTIMATED REVENUE

\$18,717,659

FY 2023-24 BUDGET

Water Transmission System Agency Fund

PETALUMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - O&M</u>			
1 PETALUMA AQUEDUCT	22,165.9	903.30	20,022,561

Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>WATER SALES - Sub-charges</u>			
1a Water Management Planning Sub-charge [4.13]	22,165.9	0.00	0
1b Watershed Planning/Restoration Sub-charge [4.14]	22,165.9	35.96	797,004
1c Recycled Water & Local Supply Sub-charge [4.15]	22,165.9	0.00	0
1d Water Conservation Sub-charge [4.16]	22,165.9	54.08	1,198,699
TOTAL WATER SALES - Subcharges	22,165.9	N/A	\$1,995,703

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<u>CAPITAL CHARGES</u>			
Aqueduct Facilities Capital Charges [4.6 e]	22,165.9	0.00	0
<u>BOND AND LOAN CAPITAL CHARGES</u>			
Storage Facilities Capital Charge [4.7]	22,165.9	29.14	645,946
Common Facilities Capital Charge [4.8]	22,165.9	139.61	3,094,556
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	22,165.9	0.00	0
TOTAL WATER SALES - Capital & Bond and Loan Charges	22,165.9	N/A	\$3,740,502

TOTAL ESTIMATED REVENUE

\$25,758,766

FY 2023-24 BUDGET

Water Transmission System Agency Fund

SONOMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
WATER SALES - O&M			
1 SONOMA AQUEDUCT	3,383.1	903.30	3,055,999

Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
WATER SALES - Sub-charges			
1a Water Management Planning Sub-charge [4.13]	3,383.1	0.00	0
1b Watershed Planning/Restoration Sub-charge [4.14]	3,383.1	35.96	121,645
1c Recycled Water & Local Supply Sub-charge [4.15]	3,383.1	0.00	0
1d Water Conservation Sub-charge [4.16]	3,383.1	54.08	182,955
TOTAL WATER SALES - Subcharges	3,383.1	N/A	\$304,600

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
CAPITAL CHARGES			
Aqueduct Facilities Capital Charges [4.6 e]	3,383.1	34.90	118,071
BOND AND LOAN CAPITAL CHARGES			
Storage Facilities Capital Charge [4.7]	3,383.1	29.14	98,589
Common Facilities Capital Charge [4.8]	3,383.1	139.61	472,315
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	3,383.1	151.68	513,148
TOTAL WATER SALES - Capital & Bond and Loan Charges	3,383.1	N/A	\$1,202,123

TOTAL ESTIMATED REVENUE

\$4,562,722

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205 33040100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	16,027,234	21,483,922		10,327,462		

REVENUES

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	149,403	250,000	36,000	249,895	213,895	594.15%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(866,252)	0	0	0	0	N/A
44109 Concessions	0	0	0	0	0	N/A
44101 Rent - Real Estate	0	0	0	0	0	N/A
SUBTOTAL	(716,848)	250,000	36,000	249,895	213,895	594.15%

INTERGOVERNMENTAL REVENUES

42282 State CalOES Disaster Funding	(2,038)	0	0	0	0	N/A
42284 State Cal OES Admin Allowance	0	0	0	0	0	N/A
42358 State Other Funding	8,979	0	0	0	0	N/A
42441 Federal FEMA Disaster Funding	(8,150)	0	0	0	0	N/A
42443 Federal FEMA Admin Allowance	0	0	0	0	0	N/A
42461 Federal Other Funding	0	0	0	0	0	N/A
42610 Other Governmental Agencies	0	0	0	0	0	N/A
42621 North Marin Water District	0	0	0	0	0	N/A
42701 Revenue Appl - PY Intergovmtl	0	0	0	0	0	N/A
SUBTOTAL	(1,209)	0	0	0	0	N/A

CHARGES FOR SERVICES

45062 Construct/Bldg Permit Rvw Svcs	0	0	0	0	0	N/A
45065 Inspection Fees	0	0	0	0	0	N/A
45223 Sewer/Water Hook up Fees	22,896	20,000	0	20,000	20,000	N/A
45301 Charges for Services	65,858	15,000	0	0	0	N/A
45314 Sale - Power	0	100,000	100,000	100,000	0	0.00%
45315 Sale - Water, Wholesale	32,494,227	35,287,622	39,208,469	40,029,589	821,120	2.09%
45316 Water Conservation	2,110,478	1,955,739	2,173,043	2,263,032	89,989	4.14%
45323 Common Fac Rev Bond Chg	2,886,446	4,128,123	4,128,123	3,986,916	(141,207)	(3.42%)
45324 Storage Fac Rev Bond Chg	721,507	866,050	866,050	832,214	(33,837)	(3.91%)
45325 Sonoma Aqueduct Rev Bond Chg	440,457	532,320	532,320	513,148	(19,172)	(3.60%)
45327 Santa Rosa Aqueduct Cap Chg	417,654	279,159	279,159	298,319	19,161	6.86%
45328 Petaluma Aqueduct Cap Chg	296,424	155,228	155,228	0	(155,228)	(100.00%)
45329 Sonoma Aqueduct Cap Chg	174,320	145,727	145,727	127,572	(18,155)	(12.46%)
45330 North Marin Rev Bond Chg	386,739	488,069	488,069	494,028	5,960	1.22%
45331 Water Mgmt Plan/Restore Chg	1,535	8,100	9,000	0	(9,000)	(100.00%)
45332 Watershed Plan/Restore Chg	6,265,024	1,346,553	1,496,170	1,504,670	8,500	0.57%
45333 Recycled Water & Local Supply	45,603	20,700	23,000	0	(23,000)	(100.00%)
45401 Revenue Appl PY Chgs for Svcs	0	0	0	0	0	N/A
SUBTOTAL	46,329,166	45,348,390	49,604,358	50,169,488	565,131	1.14%

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205 33040100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
Miscellaneous Revenues						
46027 Insurance Claims Reimbursement	2,891	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	10,380	0	0	0	0	N/A
46041 Discounts Earned	94	0	0	0	0	N/A
46050 Cancelled/Stale Dated Warrants	9	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	0	0	0	0	N/A
46205 PY Revenue – Charges for Servi	0	0	0	0	0	N/A
46215 Other Grants	0	0	0	0	0	N/A
SUBTOTAL	13,374	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47002 Sale of Capital Assets	0	0	0	0	0	N/A
47101 Transfers In - within a Fund	0	0	0	0	0	N/A
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	0
TOTAL REVENUES	45,624,483	45,598,390	49,640,358	50,419,384	779,026	1.57%

EXPENDITURES

SERVICES AND SUPPLIES

51021 Communications Expense	0	0	0	0	0	N/A
51031 Waste Disposal Services	0	0	0	0	0	N/A
51032 Janitorial Services	6,552	7,100	6,600	7,000	400	6.06%
51041 Insurance - Liability	0	0	0	0	0	N/A
51061 Maintenance - Equipment	766,433	3,000,000	3,286,389	2,875,200	(411,189)	(12.51%)
51071 Maintenance - Bldg & Improve	0	0	0	0	0	N/A
51072 Landscaping Services	0	10,000	25,000	0	(25,000)	(100.00%)
51077 Maint-Infrastructure	0	0	0	0	0	N/A
51083 VSP Premiums	0	50	50	0	(50)	(100.00%)
51205 Advertising/Marketing Svc	4,564	8,000	4,000	6,000	2,000	50.00%
51209 Information Tech Svc (non ISD)	150	260	260	260	0	0.00%
51211 Legal Services	67,489	24,000	20,000	28,000	8,000	40.00%
51212 Outside Counsel - Legal Advice	5,738	2,000	2,000	2,000	0	0.00%
51214 Agency Extra/Temp Help	0	0	0	0	0	N/A
51221 Medical/Laboratory Services	0	20,000	0	0	0	N/A
51226 Consulting Services	0	17,000	0	0	0	N/A
51230 Security Services	1,677	2,000	1,500	3,000	1,500	100.00%
51231 Testing/Analysis	136,150	240,000	150,000	200,000	50,000	33.33%
51241 Outside Printing and Binding	1,038	500	500	500	0	0.00%
51242 Bank Charges	125	50	50	50	0	0.00%
51244 Permits/License/Fees	79,784	80,000	90,000	90,000	0	0.00%
51249 Other Professional Services	0	0	0	0	0	N/A
51301 Publications and Legal Notices	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	282,181	600,000	500,000	400,000	(100,000)	(20.00%)
51402 Rents and Leases - Heavy Eq	281,062	220,000	5,000	200,000	195,000	3900.00%
51421 Rents and Leases - Bldg/Land	0	0	0	0	0	N/A
51601 Training Services	163,247	15,000	15,000	15,000	0	0.00%

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
51602 Business Travel/Mileage	1,097	5,000	10,000	6,000	(4,000)	(40.00%)
51605 Private Car Expense	1,886	1,000	1,000	750	(250)	(25.00%)
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	1,807,038	19,491,888	11,559,826	11,049,855	(509,971)	(4.41%)
51902 Telecommunication Usage	54,150	75,000	75,000	75,000	0	0.00%
51911 Mail Services	65	150	150	150	0	0.00%
51917 District Operations Chgs	16,732,705	17,647,134	17,491,944	18,377,036	885,092	5.06%
51921 Equipment Usage Charges	849,966	850,000	925,000	900,000	(25,000)	(2.70%)
52021 Clothing, Uniforms, Personal	5,770	4,000	5,000	5,000	0	0.00%
52031 Food	0	700	700	500	(200)	(28.57%)
52041 Household Supplies Expense	0	100	100	0	(100)	(100.00%)
52042 Janitorial Supplies	0	0	0	0	0	N/A
52043 Safety Supplies/Equipment	0	2,500	0	0	0	N/A
52061 Fuel/Gas/Oil	48,235	110,000	50,000	75,000	25,000	50.00%
52071 Materials and Supplies Expense	23,728	35,000	35,000	35,000	0	0.00%
52072 Chemicals	588,190	800,000	700,000	775,000	75,000	10.71%
52081 Medical/Laboratory Supplies	42,159	25,000	20,000	25,000	5,000	25.00%
52091 Memberships/Certifications	41,221	45,000	37,500	40,000	2,500	6.67%
52101 Other Supplies	96	150	0	0	0	N/A
52111 Office Supplies	4,005	2,500	5,000	5,000	0	0.00%
52114 Freight/Postage	2,192	1,000	1,000	1,000	0	0.00%
52115 Books/Media/Subscriptions	262	500	500	500	0	0.00%
52117 Mail and Postage Supplies	76	2,500	1,500	1,500	0	0.00%
52141 Minor Equipment/Small Tools	125,195	300,000	100,000	150,000	50,000	50.00%
52142 Computer Equipment/Accessories	0	10,000	10,000	1,000	(9,000)	(90.00%)
52143 Computer Software/Licensing Fees	26,151	40,000	40,000	30,000	(10,000)	(25.00%)
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities	2,142	4,000	500	2,000	1,500	300.00%
52193 Utilities - Electric	4,466,958	4,500,000	3,500,000	4,250,000	750,000	21.43%
SUBTOTAL	26,619,475	48,199,082	38,676,069	39,632,301	956,232	2.47%
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other interest Expense	0	0	0	0	0	N/A
53401 Amortization Expense	3,433	54,000	54,000	54,000	0	0.00%
53402 Depreciation Expense	6,638,630	8,023,000	8,023,000	6,778,000	(1,245,000)	(15.52%)
53403 Loss - Disposed Capital Asset	0	0	0	0	0	N/A
53500 Contributions Non-County Agy	0	0	0	0	0	N/A
53501 Contributions	0	0	0	745,396	745,396	N/A
53610 Other Charges	0	0	0	0	0	N/A
SUBTOTAL	6,642,063	8,077,000	8,077,000	7,577,396	(499,604)	(6.19%)
FIXED ASSETS						
19820 Machinery and Equipment	0	0	0	0	0	N/A
19822 Mobile Equipment	0	0	0	0	0	N/A
19824 Computer Equipment	0	0	0	0	0	N/A
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	4,157	0	0	0	0	N/A
19840 Work in Progress - Eq	0	0	0	0	0	N/A
19841 Work in Progress - Intang	0	30,000	30,000	33,700	3,700	12.33%
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	4,157	30,000	30,000	33,700	3,700	12.33%

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
<u>OTHER FINANCING USES</u>						
57011 Transfers Out - within a Fund	14,158,394	10,025,768	10,295,889	10,019,899	(275,990)	(2.68%)
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	14,158,394	10,025,768	10,295,889	10,019,899	(275,990)	(2.68%)
<u>APPROP. FOR CONTINGENCIES</u>						
55011 Appropriation for Contingency	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<u>REMIBURSEMENTS</u>						
58010 Reimb. - General	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<u>ADMIN. CONTROL ACCOUNT</u>						
59004 Administrative Control Account	0	0	0	0	0	N/A
59005 Admin Control Acct Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	47,424,088	66,331,849	57,078,958	57,263,297	184,339	0.32%
Adjustments to Reserves/Encumbrances:						
Depreciation	6,642,063	8,077,000		6,832,000		
Donated Asset (Caltrans)	0					
Outstanding Encumbrances - Net Change	(100,940)	0				
Capitalized Interest	0					
Gain/Loss on disposal of fixed assets	0					
Unrealized Gain/ Loss (GASB 31)	866,252					
Change in Prepaid Expense	5,313					
Change in Prudent Reserve		1,500,000				
Post audit adjustments - Payables	(156,395)					
Use of Fund Balance				(640,000)		
Rounding	0					
ENDING FUND BALANCE	21,483,922	10,327,462		9,675,550		
<i>Operations and Maintenance 44205 Fund Balance Reserve Goal</i>				<u>9,916,500</u>		
<i>Over/(Under) Goal</i>				<u>(240,951)</u>		

Water Transmission System Agency Fund
Major Services & Supplies Expenditure Items

Fund/Department No:

44205	33040100
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	Actual FY21-22	Adopted FY22-23	Requested FY23-24	Difference	Percent Change
<u>51061 Maintenance - Equipment</u>	766,433	3,286,389	2,875,200	(411,189)	-12.5%
Decrease attributable to lower budgeted expenses and \$380,000 in deferrals.					
<u>51211 Legal Services</u>	67,489	20,000	28,000	8,000	40.0%
Reflects five year average expenditures.					
<u>51231 Testing/Analysis</u>	136,150	150,000	200,000	50,000	33.3%
Increase associated with expanded sampling and analysis tied to the Santa Rosa Plain Wells Projects as well as additional					
<u>51803 Other Contract Services</u>	1,807,038	11,559,826	11,049,855	(509,971)	-4.4%
Decrease attributable to \$1.36M in deferrals. Decrease offset by increased maintenance project costs attributable to Tank Maintenance and Tank Recoat Projects.					
<u>51917 District Operations Chgs</u>	16,732,705	17,491,944	18,377,036	885,092	5.1%
Increase is attributable to an increase in labor costs for maintenance projects (cathodic protection, tank recoating program, tank maintenance program, pump and valve replacements, electrical projects, chlorine and pH improvement projects, SCADA upgrades), studies (Regional Water Supply Resiliency, Watershed and Water Quality Seismic Mitigation Studies, Local Hazard Mitigation Plan), emergency inventory procurement, and mitigation monitoring for recently completed FEMA projects, offset by decrease in labor for deferred maintenance projects.					
<u>51921 Equipment Usage Charges</u>	849,966	925,000	900,000	(25,000)	-2.7%
Reflects five year average expenditures.					
<u>52072 Chemicals</u>	588,190	700,000	775,000	75,000	10.7%
Increase due to Santa Rosa Plain Well activation.					
<u>52141 Minor Equipment/Small Tools</u>	125,195	100,000	150,000	50,000	50.0%
Increase reflects five-year average expenditures.					
<u>52193 Utilities - Electric</u>	4,466,958	3,500,000	4,250,000	750,000	21.4%
Increase due to elevated energy production and transmission costs caused by drought, geopolitical events, and supply chain constraints.					

2023-24

Water Transmission System Agency Fund

51061 Maintenance - Equipment		AMOUNT	DEFERRED AMOUNT
1	Backflow Maintenance	50,000	380,000
2	Collector 1 MOV Maintenance	124,900	
3	Electrical Supplies and Maintenance Services	400,000	
4	Emergency Inventory Procurement	340,000	
5	Groundwater Monitoring Instruments	49,300	
6	Kisters Annual License Fee	20,000	
7	Mirabel Pump 10 Replacement	523,000	
8	Pump and Pipeline Supplies and Maintenance Services	240,000	
9	RDS Dam Fill Pipeline Maintenance	150,000	
10	Safety Program - Self Contained Breathing Apparatus Replacem	62,000	
11	Santa Rosa Plain Well Monitoring Program (SW Wells)	25,000	
12	Valve Replacement Program	250,000	
13	Wohler/Mirabel CL2 Detector OSHA	77,000	
14	Wohler Pump 4 Replacement	404,000	
15	WT Monitoring Well Pressure Transducers	20,000	
		\$ 2,875,200	\$ 380,000

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51803 Other Contract Services		AMOUNT	DEFERRED AMOUNT
1	As-Needed Dive Services	-	60,000
2	As-Needed Electrical Design Services	150,000	
3	As-Needed Planning Studies	-	150,000
4	As-Needed O&M Engineering Services	50,000	25,000
5	Asset Management	100,000	
6	Caisson 6 Valve and Vault Replacement	220,000	
7	Cathodic Protection - Maintenance	100,000	
8	Cathodic Protection - Site Assesment and Design Support	100,000	
9	Cathodic Protection - SR/Cotati	277,150	
10	Hazardous Materials Management	50,000	
11	Hearn Ave Electrical Project	200,000	550,000
12	Sleepy Mountain Lease Agreement	20,000	
13	Tank Maintenance Program	1,398,330	
14	Tank Recoating Program	7,463,875	
15	TPW Pavement Preservation Program	25,000	
16	Transmission System Condition Assessments	100,000	100,000
17	Water Transmission System Transient Analysis	150,000	
18	Regional Water Emergency Prep Program Development	-	150,000
	<i>Advocacy</i>		
19	Community Outreach Program	40,000	
	<i>Integrated Water Management Plan</i>		
20	Bay Area	5,500	
21	North Coast	35,000	
22	Legislative Advocacy - Federal	95,000	
23	Legislative Advocacy - State	50,000	
24	North Bay Water Regional Outreach Coordination	25,000	
	<i>Studies</i>		
25	DeMuth Property Hydrogeologic Investigation	150,000	200,000
26	Groundwater Banking Feasibility - Pilot Studies	50,000	
27	Hydrography Study	20,000	
28	Regional Water Supply Resiliency Study	75,000	25,000
29	Transmission System Monitoring Master Plan	-	100,000
30	Transmission System Modeling & Assessment Program	50,000	
31	Wohler/Mirabel Groundwater Model Update and Supporting Stud	50,000	
		<u>\$ 11,049,855</u>	<u>\$ 1,360,000</u>

53501 Contributions		AMOUNT	DEFERRED AMOUNT
1	SCADA Improvements	745,396	
		<u>\$ 745,396</u>	<u>\$ -</u>

Labor associated with deferred projects \$ 699,200
Total amount of work deferred \$ 2,439,200

51803 Other Contract Services & 53501 Contributions Project Information

FY23-24

Asset Management

100,000

The primary objectives of Sonoma Water's Asset Management Program (AMP) are to improve the cost-effective management of assets throughout their life-cycle, promote data sharing and interconnectivity, and demonstrate fiscal responsibility. Phase 1 included review of Sonoma Water's current asset management practices, development of an AMP vision and charter, asset management framework, identifying business improvement opportunities for data integration and management, and establishing an enterprise-wide AMP Statement of commitments. To date the AMP has delivered: Asset Management Framework Tech Memo; State of the Assets Tech Memo; Asset Management Implementation Plan (AMIP) Report; and Asset Management Program Statement of Commitments. In FY21-22, Phase 2 will include a Mirabel Production Facility asset inventory, condition assessment, and updating the Asset Management Implementation Plan. In FY22-23, continue to conduct assessments of the water system and wastewater facilities; implement a new CMMS software; develop a program for inspection the aqueduct. In FY 23/24, Phase 3 will involve integrating the recommendations during Phase 2 into the full roll-out of the enterprise-wide AMP, implementing the selected CMMS software, furthering data management and integration and continuing with additional condition assessments of water and wastewater facilities.

Caisson 6 Valve and Vault Replacement

220,000

The Collector 6 valve vault project will install a new vault around two existing shutoff valves located along the 20" and 24" discharge pipes at Collector 6. The new vault is required to facilitate needed repairs and maintenance on the valves.

Cathodic Protection - SR/Cotati

277,150

Provide improvements to upgrade the cathodic protection system along the existing Santa Rosa Aqueduct and Russian River-Cotati Intertie. The project includes designing and constructing a new corrosion protection system to protect the pipeline from corrosion and monitor the state of the pipelines. The corrosion protection system will have a useful life of approximately 50 years, and will allow for remote assessment and data collection to quantify the condition of the pipeline and state of the cathodic protection system. The project will be constructed in two phases with a completed project that consists of 27 corrosion protection well sites and 51 test stations.

In FY 21-22, design efforts commenced and CEQA environmental review was completed for the project. FY 22-23 funding will be used to continue advancing design of Phase 1, and to initiate design of Phase 2. In FY23-24, Sonoma Water plans on advertising and completing construction of Phase 1, and also advancing necessary right-of-way to continue design development of Phase 2.

Hearn Ave Electrical Project

200,000

Repair/update Electrical Feed and communication lines to the equipment on the south side of Hearn Ave. This includes power and instrumentation communications to the Cathodic rectifier, AQ flowmeter and pressure transducer. Directional boring for new conduits, new wire, communication cabling, and verification. In FY23-24, repairs will be made to the conduit, new wires will be pulled, and the system will be tested.

SCADA Improvements

745,396

SCADA software and hardware: The scope of the project is to upgrade SCADA workstations and software to current supported versions. Other objectives include upgrades to field components such as Programmable Logic Controllers (PLCs) and Remote Telemetry devices.

SCADA Upgrade: The scope of this project is to reassess and revamp programming standards to accommodate current technologies as well as implement these new standards to streamline maintenance and operations. During FY21/22, we were able to complete much of the background work necessary to upgrade our SCADA system. This includes documenting the logic embedded in our existing SCADA system interface, duplicating that logic into a new PLC, and creating new interface graphics. In FY22/23, we have begun testing live, side-by-side testing of the new system and will be completing reporting requirements. In FY23/24, we will be cutting over to the new system and undertaking undertaking additional system improvements including optimizing system performance and hardware replacements and upgrades.

Tank Maintenance Program

1,398,330

Sonoma County Water Agency (Sonoma Water) owns and operates 18 water storage tanks with a total combined capacity of 128.8 million gallons as a part of the water transmission system that provides clean drinking water to approximately 600,000 residents in nine major cities and water districts within Sonoma and Marin counties. Maintaining these tanks is critical. This program covers a 10-year agreement for maintenance services with a Service Provider. In FY 23/24 Enhanced Washout Cleaning and Inspections will be conducted on 4 tanks, and Visual Inspections will be conducted on 11 tanks. The remaining 3 tanks are actively under design to be re-coated.

Tank Recoating Program

7,463,875

Water storage tanks are an integral component of Sonoma Water’s transmission and supply system and provide operational flexibility and system supply resiliency when demand exceeds production capacity. In total, Sonoma Water’s 18 welded steel water tanks provide 129 million gallons of storage, which is approximately three times the average daily system demand. Welded-steel tanks are susceptible to corrosion and have a limited functional lifespan of approximately 50 years without coatings. With regularly scheduled and targeted maintenance, monitoring, and recoating activities welded-steel tanks can attain a lifespan of over 100 years. Sonoma Water’s Tank Recoating Program specifically targets the protection and maintenance of welded-steel tanks by designing and implementing tank rehabilitation projects that include interior and exterior recoating, structural repairs, and installation of cathodic protection systems to maximize the functional life of each facility.

In FY 21-22 Sonoma Water began developing plans for the recoating of the Kastania and Cotati No.1 tanks. FY 22-23 funding will be used to begin construction at the Kastania and Cotati No. 1 tanks and to initiate design of the Cotati No. 3 tank recoating project. Work in FY 22-23 at Kastania and Cotati No. 1 will include interior and exterior coating removal and replacement, structural repairs to corroded roof rafters, and other ancillary repairs. Planned work for FY23-24 includes beginning construction on Cotati No. 3 tank recoating and beginning design of Ralphine No. 3 and Sonoma No. 2 tank recoating projects.

Transmission System Condition Assessments

100,000

Prepare an assessment report that reviews the water system pipeline infrastructure to develop an approach and framework for a risk-based prioritization model to conduct inspections. The project will evaluate appropriate pipeline inspection technologies and formulate an inspection projects prioritization plan.

Water Transmission System Transient Analysis

150,000

Sonoma Water completed a comprehensive transient analysis of the water transmission system in 1999. In support of specific projects, the study was partially updated for select locations in 2003, 2007, and 2013. Utilizing a contemporary modeling platform, a new system-wide study will be prepared for the current status of the transmission system. The study will identify and recommend solutions to address current transient vulnerabilities in the water transmission system.

Minimal efforts were focused on this project in FY 21-22 given other competing priorities. FY 22-23 Sonoma Water plans on engaging a consultant to update a system-wide transient analysis. In FY23-24, Sonoma Water plans on finalizing the transient analysis and identifying CIP projects needed to address and mitigate any existing system vulnerabilities to surge and pressure transients.

Studies

DeMuth Property Hydrogeologic Investigation

150,000

The DeMuth property hydrogeologic investigation will advance feasibility evaluation of siting additional diversion facilities (i.e., a well field or additional collector well) within the DeMuth parcels adjoining the eastern bank of the Russian River, just south of Wohler Bridge. Particular focus of the study will 1) evaluate appropriate methods for investigating the hydrostratigraphy of the parcels (e.g., with drilling and/or geophysical methods), 2) leverage existing internal modeling tools to estimate well production efficiencies and potential well interference with existing collector wells, and 3) assess strategies for mitigating seismic risks to existing Wohler/Mirabel diversion facilities by siting new diversion facilities on the DeMuth parcels.

Groundwater Banking Feasibility - Pilot Studies**50,000**

In FY 22/23, Sonoma Water provided technical review and support to Valley of the Moon Water District and City of Petaluma in developing scopes of work for aquifer storage and recovery (ASR) pilot studies, performed technical review and coordination for potential groundwater banking aspects of the Regional Water Supply Resiliency Study, initiated evaluation of Sonoma Water's future ASR operations at its Sebastopol and Occidental Rd well sites (currently being upgraded for ASR operations under a DWR grant), and initiated planning and scope development for an update to the regional 2013 Groundwater Banking Feasibility Study.

Funds expected to be expended in FY 23/24 would support an update to the regional 2013 Groundwater Banking Feasibility Study to 1) update the source water (Russian River) availability and transmission system capacity assumptions; 2) update assessment of potential ASR locations/operations, including those that benefit GSP implementation; and 3) design implement pilot studies for favorable areas. It is anticipated that funding for the regional Groundwater Banking Feasibility Study would be cost shared by Sonoma Water, the three GSAs and interested Water Contractors. Funds will also be used for Sonoma Water staff to continue coordination with other entities, such as the City of Petaluma and Valley of the Moon Water District, currently planning ASR pilot studies, participants of the Regional Water Supply Resiliency Study, and staff of the San Francisco Bay and North Coast Regional Water Quality Control Boards.

Hydrography Study**20,000**

In order to better understand tributary flow dynamics on water supply and aquatic habitats, Sonoma Water hired Mike Webster as a consultant to assist with the installation and maintenance of an extensive stream gauging network of tributaries to the Russian River. Over the last fiscal year, Mike Webster has continued to capture manual stream discharge measurements at multiple gauged tributaries in order to maintain stream discharge rating curves. Mike Webster used his rating curves and stream flow measurements to develop an annual discharge computation for Feliz Creek, providing Sonoma Water with a daily streamflow summary for the tributary. Additionally, Mike continues to maintain real time stream gauging equipment, fixes and/or replaces damaged instruments and provides guidance to Sonoma Water staff in order to ensure that best practices are followed in capturing surface water streamflow.

Regional Water Supply Resiliency Study**75,000**

Retail water providers to over 600,000 people in Sonoma and Marin Counties are regionally connected through existing water supply infrastructure. Along with purchasing wholesale water from the Sonoma County Water Agency, each retail provider also has local supplies which are used to meet the demands of their customers. Although these systems are connected, they are not operated or managed in a coordinated manner, especially in times of water shortage. Development of a decision support tool could be used to evaluate strategies and water supply projects that would make the region more resilient to future water shortages.

Funds expended in FY 19/20 were used to develop a work plan in cooperation with Sonoma Water's Water Contractors. Funds budgeted for FY 20/21 were expended building a decision support model to evaluate the regions resiliency to drought under historical operations and with existing facilities. In cooperation with Sonoma Water's contractors, scenarios were developed and evaluated that either through operational changes or new water supply facilities could improve the regions resiliency to drought. Funds budgeted for FY 21/22 were expended using the decision support model to complete analysis of scenarios focused on drought resiliency and to begin evaluating water shortage scenarios resulting from disruptions to Sonoma Water's water supply and transmission system due to natural hazards such as seismic events, wildfires and flooding. Funds budgeted for FY 22/23 will be expended completing all modeling scenarios, completing development and evaluation of projects to improve the regions water supply reliability during periods of water supply shortages and completing a final report documenting the model and study results. Funds budgeted for FY 23/24 will be expended for ongoing support for efforts to improve the regions water supply resiliency.

Transmission System Modeling & Assessment Program**50,000**

Update and maintain water transmission system hydraulic model used to simulate water system operations and deliveries. Analyze conditions and system capabilities under operational scenarios that support operations, maintenance and design decisions. Develop system performance assessment and monitoring tools. Analyze pump operations at production and booster station facilities using system monitoring data collected by SCADA system.

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Water Management Planning

Fund/Department No: 44210 33041000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	457,790	369,637		259,895		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	2,779	1,680	1,680	5,357	3,677	218.87%
44050 Unrealized Gains and Losses	(15,139)	0	0	0	0	N/A
SUBTOTAL	(12,360)	1,680	1,680	5,357	3,677	218.87%
INTERGOVERNMENTAL REVENUE						
42619 Town of Windsor	0	478	478	0	(478)	(100.00%)
SUBTOTAL	0	478	478	0	(478)	(100.00%)
CHARGES FOR SERVICES						
45301 Charges for Services	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	1,535	8,100	9,000	0	(9,000)	(100.00%)
47102 Transfers In - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	1,535	8,100	9,000	0	(9,000)	(100.00%)
TOTAL REVENUES	(10,825)	10,258	11,158	5,357	(5,801)	(51.99%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51205 Advertising Marketing	0	0	0	0	0	N/A
51211 Legal Services	353	0	0	0	0	N/A
51212 Legal Services - External	0	0	0	0	0	N/A
51241 Outside Printing & Binding	0	0	0	0	0	N/A
51601 Training/Conference Expense	0	0	0	0	0	N/A
51602 Business Travel/Mileage	0	0	0	0	0	N/A
51605 Private Car Expense	0	0	0	0	0	N/A
51803 Other Contract Services	100,669	100,000	75,000	75,000	0	0.00%
51917 District Operations Chgs	28,342	20,000	0	25,000	25,000	N/A
51921 Equipment Usage Charges	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
SUBTOTAL	129,363	120,000	75,000	100,000	25,000	33.33%
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53501 Contributions	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fur	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	129,363	120,000	75,000	100,000	25,000	33.33%
Adjustments to Reserves/Encumbrances:						
Outstanding Encumbrances - Net Change	36,896	0		0		
Audit Adjustment (A/P)	0	0		0		
Unrealized Gain/ Loss (GASB 31)	15,139	0		0		
Rounding	0					
ENDING FUND BALANCE	369,637	259,895		165,252		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Watershed Planning/Restoration

Fund/Department No: 44215 33041100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	12,565,071	15,629,400		3,423,809		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	91,028	14,400	14,400	45,028	30,628	212.70%
44050 Unrealized Gains and Losses	(543,724)	0	0	0	0	N/A
SUBTOTAL	(452,695)	14,400	14,400	45,028	30,628	212.70%
INTERGOVERNMENTAL REVENUE						
42461 Federal Other Funding	0	0	0	0	0	N/A
42619 Town of Windsor	323,985	79,538	79,538	87,446	7,908	9.94%
SUBTOTAL	323,985	79,538	79,538	87,446	7,908	9.94%
CHARGES FOR SERVICES						
45301 Charges for Services	0	0	0	0	0	N/A
45332 Watershed Plan/Restore Chg	53,972	100,000	40,000	40,000	0	0.00%
<i>Subtotal Charges for Service</i>	53,972	100,000	40,000	40,000	0	0.00%
MISCELLANEOUS REVENUE						
46021 Capital Grants - Federal	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated Warrant	6	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenu	82	0	0	0	0	N/A
SUBTOTAL	88	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	6,265,024	1,346,553	1,496,170	1,504,670	8,500	0.57%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	6,265,024	1,346,553	1,496,170	1,504,670	8,500	0.57%
TOTAL REVENUES	6,190,373	1,540,491	1,630,108	1,677,144	47,036	2.89%
EXPENDITURES						
SERVICES AND SUPPLIES						
51021 Communication Expense	0	0	0	0	0	N/A
51061 Maintenance - Equipment	551	500	0	0	0	N/A
51205 Advertising Marketing	0	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	0	0	0	0	0	N/A
51211 Legal Services	3,793	5,000	0	0	0	N/A
51212 Legal Services - External	511	250	0	0	0	N/A
51221 Medical/Laboratory Services	0	0	0	0	0	N/A
51226 Consulting Services	0	25,000	0	0	0	N/A
51231 Testing/Analysis	102,678	140,000	0	0	0	N/A
51241 Outside Printing and Binding	0	0	0	0	0	N/A
51244 Permits/License/Fees	150	500	0	0	0	N/A
51401 Rents and Leases - Equipment	54,290	40,000	0	0	0	N/A
51402 Rents and Leases - Heavy Eq	20,620	35,000	0	0	0	N/A
51601 Training/Conference	0	0	0	0	0	N/A
51602 Business Travel/Mileage	0	0	0	0	0	N/A
51605 Private Car Expense	452	500	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	834,919	6,796,112	5,043,920	1,624,870	(3,419,050)	(67.79%)
51902 Telecommunication Usage	0	0	0	0	0	N/A
51917 District Operations Chgs	2,309,953	2,997,278	2,746,250	2,883,800	137,550	5.01%
51921 Equipment Usage Charges	54,405	50,000	0	0	0	N/A

Section Title:

Watershed Planning/Restoration

Fund/Department No:

44215

33041100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
52021 Clothing, Uniforms, Personal	2,121	1,500	0	0	0	N/A
52031 Food	0	0	0	0	0	N/A
52042 Janitorial Supplies	0	0	0	0	0	N/A
52043 Safety Supplies/Equipment	0	0	0	0	0	N/A
52061 Fuel/Gas/Oil	78	200	0	0	0	N/A
52063 Vehicle Parts	0	0	0	0	0	N/A
52071 Materials and Supplies Expens	5,112	1,000	0	0	0	N/A
52081 Medical/Laboratory Supplies	0	0	0	0	0	N/A
52091 Memberships/Certifications	0	0	0	0	0	N/A
52101 Other Supplies	0	0	0	0	0	N/A
52111 Office Supplies	656	0	0	0	0	N/A
52114 Freight/Postage	0	0	0	0	0	N/A
52115 Books/Media	157	1,000	0	0	0	N/A
52117 Mail and Postage Supplies	0	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	2,728	2,500	0	0	0	N/A
52142 Computer Equipment/Accessor	0	0	0	0	0	N/A
52143 Computer Software	0	0	0	0	0	N/A
52181 Business Meals/Supplies	0	0	0	0	0	N/A
52191 Utilities Expense	0	0	0	0	0	N/A
SUBTOTAL	3,393,172	10,096,340	7,790,170	4,508,670	(3,281,500)	(42.12%)
OTHER CHARGES						
53104 Other Interest Expense	0	0	0	0	0	N/A
53402 Depreciation Expense	5,786	6,600	6,000	8,000	2,000	33.33%
53403 Loss - Disposed Capital Asset	0	0	0	0	0	N/A
53501 Contributions	0	0	0	0	0	N/A
SUBTOTAL	5,786	6,600	6,000	8,000	2,000	0
REIMBURSEMENTS						
58010 Reimb. - General	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
FIXED ASSETS						
19840 Acq-WIP-Equipment	30,736	0	0	0	0	N/A
19841 Acq-WIP-Intangibles	1,233,049	3,649,142	1,200,000	488,000	(712,000)	
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	1,263,785	3,649,142	1,200,000	488,000	(712,000)	(1)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	4,662,743	13,752,082	8,996,170	5,004,670	(3,991,500)	(44.37%)
Adjustments to Reserves/Encumbrances:						
Outstanding Encumbrances - Net Change	987,189	0				
Capital Interest	0	0				
Depreciation	5,786	6,000		8,000		
Change in prepaid expense	0	0				
Gain/loss on disposal of Capital Assets	0					
Unrealized Gain/ Loss (GASB 31)	543,724	0				
Audit Adjustment (A/P)	0	0				
Rounding	0	0				
ENDING FUND BALANCE	15,629,400	3,423,809		104,283		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Recycled Water and Local Supply

Fund/Department No:

44220

33041200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	256,671	294,825		268,747		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	4,289	2,000	480	6,125	5,645	1176.03%
44050 Unrealized Gains and Losses	(26,323)	0	0	0	0	N/A
SUBTOTAL	(22,034)	2,000	480	6,125	5,645	1176.03%
INTERGOVERNMENTAL REVENUE						
42358 State Other Funding	0	0	0	0	0	N/A
42619 Town of Windsor	2,271	1,223	1,223	0	(1,223)	(100.00%)
SUBTOTAL	2,271	1,223	1,223	0	(1,223)	(100.00%)
CHARGES FOR SERVICES						
45301 Charges for Services	0	0	0	0	0	N/A
45333 Recycled Water & Local Supply	33	0	0	0	0	N/A
45401 Revenue Appl PY Chgs for Svcs	0	0	0	0	0	N/A
SUBTOTAL	33	0	0	0	0	0
MISCELLANEOUS REVENUE						
46022 Capital Grants-State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	450,000	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
SUBTOTAL	0	450,000	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	45,603	20,700	23,000	0	(23,000)	(100.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	45,603	20,700	23,000	0	(23,000)	(100.00%)
TOTAL REVENUES	25,873	473,923	24,703	6,125	(18,578)	(75.21%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51021 Communication Expense	0	0	0	0	0	N/A
51061 Maintenance - Equipment	0	0	0	0	0	N/A
51205 Advertising/Marketing Svc	0	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	0	0	0	0	0	N/A
51211 Legal Services	0	0	0	0	0	N/A
51212 Legal Services - External	0	0	0	0	0	N/A
51226 Consulting Services	0	0	0	0	0	N/A
51241 Outside Printing and Binding	0	0	0	0	0	N/A
51244 Permits/License/Fees	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	0	0	0	0	0	N/A
51601 Training Services	0	0	0	0	0	N/A
51602 Business Travel/Mileage	0	0	0	0	0	N/A
51803 Other Contract Services	0	450,000	0	0	0	N/A
51902 Telecommunication Usage	0	0	0	0	0	N/A
51915 ISD - Reprographics Services	0	0	0	0	0	N/A
51917 District Operations Chgs	0	0	0	0	0	N/A
51921 Equipment Usage Charges	0	0	0	0	0	N/A
52031 Food	0	0	0	0	0	N/A

Section Title:

Recycled Water and Local Supply

Fund/Department No:

44220

33041200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
52061 Fuel/Gas	0	0	0	0	0	N/A
52101 Other Supplies	0	0	0	0	0	N/A
52115 Books/Media/Subscriptions	0	0	0	0	0	N/A
52117 Mail and Postage Supplies	0	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	0	0	0	0	0	N/A
52143 Computer Software/Licensing Fees	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities Expense	0	0	0	0	0	N/A
SUBTOTAL	0	450,000	0	0	0	N/A
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53402 Depreciation Expense	5,966	6,000	6,000	6,000	0	0.00%
53501 Contributions	11,772	50,000	50,000	50,000	0	0.00%
SUBTOTAL	17,738	56,000	56,000	56,000	0	0.00%
FIXED ASSETS						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	0	0	0	0	0	N/A
19841 Work in Progress - Intang	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	17,738	506,000	56,000	56,000	0	0.00%
Adjustments to Reserves/Encumbrances:						
Outstanding Encumbrances - Net Change	0	0				
Change in Windsor Reserve	(2,271)	0				
Capital Interest	0	0		0		
Depreciation	5,966	6,000		6,000		
Audit Adjustment (A/P)	0	0		0		
Unrealized Gain/ Loss (GASB 31)	26,323	0		0		
Rounding	0	0				
ENDING FUND BALANCE	294,825	268,747		224,872		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Water Conservation

Fund/Department No: 44225 33041300

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	1,748,431	1,180,750		253,867		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	9,734	6,000	3,360	3,351	(9)	(0.27%)
44050 Unrealized Gains and Losses	(46,977)	0	0	0	0	N/A
SUBTOTAL	(37,242)	6,000	3,360	3,351	(9)	(0.27%)
INTERGOVERNMENTAL REVENUE						
42358 State Other Funding	3,058	669,325	61,186	1,849,210	1,788,024	2922.28%
42461 Federal Other Funding	0	935,195	935,195	0	(935,195)	(100.00%)
42610 Other Governmental Agencies	0	0	0	0	0	N/A
42611 City of Santa Rosa	0	0	0	0	0	N/A
42612 City of Petaluma	0	0	0	0	0	N/A
42613 City of Rohnert Park	0	0	0	0	0	N/A
42615 City of Cotati	0	0	0	0	0	N/A
42618 City of Sonoma	0	0	0	0	0	N/A
42619 Town of Windsor	108,532	115,521	115,521	131,519	15,998	13.85%
42621 North Marin Water District	0	0	0	0	0	N/A
SUBTOTAL	111,590	1,720,041	1,111,902	1,980,729	868,827	78.14%
Charges for Services						
45301 Charges for Services	193,038	42,000	42,000	42,000	0	0.00%
45316 Water Conservation	21,498	0	0	0	0	N/A
SUBTOTAL	214,536	42,000	42,000	42,000	0	0.00%
MISCELLANEOUS REVENUE						
46021 Capital Gains - Federal	0	0	0	0	0	N/A
46022 Capital Grants - State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	280,000	1,030,000	85,000	(945,000)	(91.75%)
46040 Miscellaneous Revenue	185,548	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated Warrants	1,400	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	0	0	0	0	N/A
46204 PY Intergovmntl Rev - Other	0	0	0	0	0	N/A
46215 Other Grants	0	0	0	0	0	N/A
SUBTOTAL	186,948	280,000	1,030,000	85,000	(945,000)	(91.75%)
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	2,110,478	1,955,739	2,173,043	2,263,032	89,989	4.14%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	2,110,478	1,955,739	2,173,043	2,263,032	89,989	4.14%
TOTAL REVENUES	2,586,311	4,003,780	4,360,305	4,374,112	13,807	0.32%
EXPENDITURES						
SERVICES AND SUPPLIES						
51021 Communication Expense	0	0	0	0	0	N/A
51032 Janitorial Services	0	0	0	0	0	N/A
51061 Maintenance - Equipment	12,334	0	0	0	0	N/A
51071 Maintenance - Bldg & Improve	5,067	0	0	0	0	N/A
51205 Advertising/Marketing Svc	208,817	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	90	0	0	0	0	N/A

Section Title:

Water Conservation

Fund/Department No:

44225

33041300

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
51211 Legal Services	3,173	0	0	0	0	N/A
51214 Agency Extra/Temp Help	0	0	0	0	0	N/A
51225 Training Services	0	0	0	0	0	N/A
51230 Security Services	0	0	0	0	0	N/A
51241 Outside Printing and Binding	43,526	73,500	73,500	43,000	(30,500)	(41.50%)
51244 Permits/License	0	0	0	0	0	N/A
51249 Other Professional Services	0	0	0	0	0	N/A
51250 Planning/Mapping/Inspections	0	0	0	0	0	N/A
51301 Publications and Legal Notices	0	0	0	0	0	N/A
51401 Rents and Leases - Equipment	111	0	0	0	0	N/A
51601 Training Services	4,557	0	0	0	0	N/A
51602 Business Travel/Mileage	0	13,000	13,000	13,000	0	0.00%
51605 Private Car Expense	148	150	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	473,626	774,804	1,231,000	1,063,668	(167,332)	(13.59%)
51902 Telecommunication Usage	0	0	0	0	0	N/A
51915 ISD Reprographics Services	0	0	0	0	0	N/A
51917 District Operations Chgs	1,967,816	1,962,238	1,962,238	2,049,000	86,762	4.42%
51921 Equipment Usage Charges	12,258	0	0	0	0	N/A
52021 Clothing, Uniforms	301	0	0	0	0	N/A
52031 Food	749	0	0	0	0	N/A
52042 Janitorial Supplies	225	0	0	0	0	N/A
52061 Fuel/Gas/Oil	0	0	0	0	0	N/A
52071 Materials and Supplies Expense	212,786	75,000	75,000	78,000	3,000	4.00%
52091 Memberships/Certifications	6,219	12,000	12,000	12,000	0	0.00%
52101 Other Supplies	0	0	0	0	0	N/A
52111 Office Supplies	454	0	0	0	0	N/A
52112 Office Furniture/Fixtures	0	0	0	0	0	N/A
52114 Freight/Postage	0	0	0	0	0	N/A
52115 Books/Media/Subscriptions	520	0	0	0	0	N/A
52117 Mail and Postage Supplies	2	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	347	0	0	0	0	N/A
52142 Computer Equipment/Accessories	0	0	0	0	0	N/A
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	43,836	501,146	433,000	294,500	(138,500)	(31.99%)
52181 Business Meals/Supplies	0	0	0	0	0	N/A
SUBTOTAL	2,996,962	3,411,838	3,799,738	3,553,168	(246,570)	(6.49%)
OTHER CHARGES						
53500 Contributions Non-County Agy	0	0	0	0	0	N/A
53501 Contributions	5,500	1,515,825	967,686	1,062,074	94,388	9.75%
53502 Community Grants	3,061	3,000	0	0	0	N/A
SUBTOTAL	8,561	1,518,825	967,686	1,062,074	94,388	9.75%
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	3,005,523	4,930,663	4,767,424	4,615,242	(152,182)	(3.19%)

Adjustments to Reserves/Encumbrances:

Outstanding Encumbrances - Net Chang	56,410	0	0	0
Change in Windsor Reserve	233,876	0	0	0
Change in Prepaid Expense	0	0	0	0
Unrealized Gain/ Loss (GASB 31)	46,977	0	0	0
Post Audit Adjustment	(485,731)	0	0	0
Rounding	(1)	0	0	0

ENDING FUND BALANCE	1,180,750	253,867	12,737
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Water Transmission Budget

2023-24

Itemized Detail for Subfunds Consulting/Contractual Services

Budget
FY23-24

Water Management Planning

Annual Water Supply and Demand Assessment: Develop scope, cost, and schedule to complete a water supply and demand analysis and preparation and submittal of the required Annual Water Shortage Assessment Report to the Department of Water Resources by July 1 each year. Results of the Annual Assessment are also required to inform the work of Sonoma Water's contractors' Assessment Reports to DWR. In 21/22, the 2020 UWMP was verified complete by DWR. Work to complete the update to the Water Shortage Allocation Methodology and Model continued, with Board adoption of the methodology in January 2022. Final minor changes to the Water Shortage Allocation Model were completed in July 2022.	\$ 50,000
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Watershed Planning/Restoration

RRIFR Decision 1610 Change Petition: Russian River Flows: Continued preparation of Environmental Impact Report for Fish Habitat Flows and Water Rights Project (Fish Flow Project EIR) in preparation for Board of Directors consideration for certification. Consultant services for responses to comments on the Draft EIR, preparation of recirculated Draft EIR, and any additional impact analysis, flow modeling, and monitoring, needed. Fish Flow Project EIR. The EIR is being prepared by Sonoma Water staff, with assistance from consultants on some areas of analysis. A Draft EIR was released on August 19, 2016. In FY21/22, most of the work focused on preparing the recirculated Draft EIR. Work also includes submission of annual Temporary Urgency Change (TUC) Petitions to the State Board to approve the requested changes to minimum in-stream flows as identified in the Biological Opinion and fisheries and water quality monitoring and reporting required by any State Board TUC Order. Work being accomplished in FY22/23 includes updates to modeling and project analysis, and lab analysis for water quality monitoring under the multiple TUC Orders issued in 2022. Work anticipated for FY23/24 includes work on the recirculated draft EIR as well as lab analysis for water quality monitoring related to the annual TUC.	\$ 183,000
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RRIFR Estuary Management: Required Annual Biological Opinion Activities: Sonoma Water, in consultation with the National Marine Fisheries Service (NMFS), California Department of Fish & Wildlife (CDFW) and the U.S. Army Corps of Engineers (Corps), is required to annually prepare a lagoon outlet adaptive management plan by April 1; conduct and record monthly surveys of the beach topography and the outlet channel; use a time lapse video camera to record the interaction of waves, tides and the river mouth; conduct baseline monitoring of seals and other pinnipeds, conduct estuary water quality monitoring, conduct juvenile steelhead and coho salmon rearing surveys, and prepare annual reports. Other FY21/22 and FY22/23 activities include installation and monitoring of downstream migrant salmonid traps and water quality monitoring stations, and flood risk feasibility studies. Work being completed in FY22/23 and includes preparation of the annual adaptive management plan, renewing regulatory permits, and continuation of monitoring and studies. Work anticipated for FY23/24 includes renewing regulatory permits and monitoring studies.	\$ 430,000
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Upper Russian River Water Quality Monitoring: This water quality monitoring was conducted in FY21/22 for the Upper Russian River, including the East Fork Russian River above Lake Mendocino and Lake Mendocino to contribute to planning and modeling efforts for the Potter Valley Project (PVP), Lake Mendocino management, Fish Habitat Flows and Water Rights Project, the Forecast Informed Reservoir Operations (FIRO) projects, and the ongoing drought conditions. Monitoring included the deployment of datasondes and collection of grab samples, as well as laboratory analysis. Work anticipated for FY22/23 includes the efforts described above.	\$ 23,000
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3/1/2023

Water Transmission Budget

2023-24

Itemized Detail for Subfunds Consulting/Contractual Services

	Budget FY23-24
<u>Winter Russian River Algae /WQ Monitoring</u> : This water quality monitoring was conducted for over winter water quality and algae monitoring on the mainstem Russian River to collect data on conditions during changes in watershed hydrology. Monitoring included deployment of datasondes, collection of grab samples, sampling of algae, as well as laboratory analysis. Work anticipated for FY22/23 and FY 23/24 includes the lab analysis related to water quality monitoring grab sampling efforts described above.	\$ 14,000
<u>PVP RR Water Forum</u> : This line item is for Phase 2 of the Two Basin Solution. It reflects a match contribution for the submitted DWR 2022 Urban Community Drought Relief Grant Program which will be funded by County of Sonoma, County of Mendocino, Sonoma Water, and the Water Contractors.	\$ 150,000
<u>Landscape Resiliency</u> : Build fire landscape resiliency through vegetation management at Lake Sonoma to protect source water quality in partnership with the U.S. Army Corps.	\$ 100,000
	<u>\$ 900,000</u>
<u>Recycled Water and Local Supply</u>	
Funding for Groundwater Management in FY 23/24 for Groundwater Sustainability activities.	\$ 50,000
	<u>\$ 50,000</u>
<u>Water Conservation</u>	
<u>51241-Outside Printing and Binding</u>	
WUE/Water Ed Program materials, Eco-Friendly Garden Tour materials.	\$ 43,000
<u>51602-Business Travel/Mileage</u>	
Attend local and statewide meetings representing the Partnership and Sonoma Water	\$ 13,000
<u>51803-Other Contract Services</u>	
Cotati Water Conservation Program: Funding to provide residential water assessments and other water conservation program services	\$ 8,000
Garden Sense Contract: Funding provides onsite visits by local master gardeners to support local turf removal programs	\$ 20,000
Green Business Program: Funding to staff a part time position which provides water assessments for local businesses pursuing the Green Business Certification	\$ 30,000
Online Educational Content: Development of online educational content	\$ 25,000
Plant Labeling Program: Funding for nursery liaison to ensure locally appropriate plants are labeled	\$ 25,000
QWEL: Instructors to teach QWEL trainings and Database maintenance contract	\$ 68,000
Sonoma County Fair: Fair materials and hardware that are WUE focused for distribution at the Sonoma County fair	\$ 15,000
SMSWP website: Website hosting, maintenance, and development.	\$ 4,000
Spatial Analysis: Analysis for CII customers of the Partnership to provide landscape area measurements and non-functional turf data	\$ 120,000
Water Ed Bus Contract: Shuttle from school to field study sites for Water Education Program	\$ 50,000
Water Loss Programs: Technical assistance for regional water loss meetings, regional program assistance, and validation services for contractor annual water loss audits	\$ 12,000
WaterSmart Plant Kit Program: DIY residential turf conversion program providing scalable design choices and corresponding low water use plants from local nurseries.	\$ 666,668
Water Use Efficiency Videos: How-to video series of water use efficiency best practices.	\$ 20,000
	<u>\$ 1,063,668</u>

3/1/2023

Water Transmission Budget

2023-24

Itemized Detail for Subfunds Consulting/Contractual Services

Budget
FY23-24

51917-District Operations Chgs

Salaries, benefits and overhead costs for staff assigned to projects budgeted within the Water Conservation Fund	\$ 2,049,000
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52071-Materials and Supplies Expense

Water Ed Teaching Materials: pH strips, fabric for displays, youth outreach displays, pencil sharpeners, pencils, classroom testing kits, maps, workbooks, rulers, toothbrushes, stickers, etc.	\$ 78,000
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52091-Memberships/Certifications

Irrigation Association Certificate Renewals, Water Education Foundation, and California Water Efficiency Partnership, Alliance for Water Efficiency, etc.	\$ 12,000
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52171-Water Conservation Program

Outdoor Water Use Focused Programs: Qualified Water Efficient Landscaper Training in English and Spanish, Russian River Friendly Workshops, Living Learning Landscapes Demo Gardens, etc.	\$ 1,500
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Public Information/Outreach Programs: Media campaign for the Sonoma-Marin Saving Water Partnership including media ad buy, ad development, DIY toolkits	\$ 183,000
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Saving Water Partnership Wholesaler Support: Act as the regional liaison attend meetings of the CalWEP, Alliance for Water Efficiency, Independent Technical Panel, Urban Advisory Group, CA Science Teachers Association, environmental education conference	\$ 20,000
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School Education Program: Such as assembly program, RAY Fellowship, port-a-potties, steelhead in the classroom program, youth outreach events, teacher program, teacher trainings, educational workbooks, maps	\$ 70,000
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Seminars, Workshops, Training: Host trainings/ workshops to benefit the Partnership, such as Water Loss, WELO; Participation in national/statewide studies such as those conducted by CalWEP and AWE	\$ 20,000
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\$ 294,500

Total \$ 3,553,168

3/1/2023

FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY

Section Title:

Santa Rosa Aqueduct Capital Fund

Fund/Department No:

44230

33045000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	8,399,534	9,118,684		8,475,980		

REVENUES

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	49,731	26,400	26,400	217,372	190,972	723.38%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Los	(305,468)	0	0	0	0	N/A
SUBTOTAL	(255,737)	26,400	26,400	217,372	190,972	723.38%

MISCELLANEOUS REVENUES

46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46021 Capital Grants - Federal	43,397	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated v	0	0	0	0	0	N/A
SUBTOTAL	43,397	0	0	0	0	N/A

ADMINISTRATIVE CONTROL ACCOUNT

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

OTHER FINANCING SOURCES

47101 Transfers In - within a F	417,654	279,159	279,159	298,319	19,161	6.86%
47102 Transfers In - btw Govtl	0	0	0	0	0	N/A
SUBTOTAL	417,654	279,159	279,159	298,319	19,161	6.86%

SPECIAL ITEMS

48004 Residual Equity Transfe	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A

TOTAL REVENUES	205,314	305,559	305,559	515,691	210,133	68.77%
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EXPENDITURES

OTHER CHARGES

53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
SUBTOTAL	0	0	0	0	0	N/A

FIXED ASSETS

19820 Machinery and Equipme	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	6,736	948,263	50,000	0	(50,000)	(100.00%)
19840 Work in Progress - Eq	0	0	0	0		

Section Title:
Fund/Department No:

Santa Rosa Aqueduct Capital Fund	
44230	33045000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
19841 Work in Progress - Intar	0	0	0	0		
19851 Intangible Assets - Non-	0	0	0	0		
SUBTOTAL	6,736	948,263	50,000	0	(50,000)	(100.00%)
OTHER FINANCING USES						
57011 Transfers Out - within a	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	6,736	948,263	50,000	0	(50,000)	(100.00%)
Adjustments to Reserves/Encumbrances:						
Repayment of Loan to Storage	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(15,000)	0		0		
Capitalized Interest	305,468	0		0		
Post Audit Adjustment	230,103	0		0		
Rounding	2	0		0		
ENDING FUND BALANCE	9,118,684	8,475,980		8,991,671		

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**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Petaluma Aqueduct Capital Fund
Fund/Department No: 44235 33045100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	8,020,746	7,843,323		6,524,167		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	45,260	33,120	33,120	127,610	94,490	285.30%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(267,243)	0	0	0	0	N/A
SUBTOTAL	(221,983)	33,120	33,120	127,610	94,490	285.30%
MISCELLANEOUS REVENUE						
46021 Capital Gains - Federal	161,430	1,990,074	0	0	0	N/A
SUBTOTAL	161,430	1,990,074	0	0	0	N/A
ADMINISTRATIVE CONTROL ACCOUNT						
49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	296,424	155,228	155,228	0	(155,228)	(100.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	296,424	155,228	155,228	0	(155,228)	(100.00%)
TOTAL REVENUES	235,871	2,178,422	188,348	127,610	(60,738)	(32.25%)
EXPENDITURES						
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
53403 Loss - Disposed Capital Asset	0	0	0	0		
SUBTOTAL	0	0	0	0	0	N/A
FIXED ASSETS						
19820 Machinery and Equipment	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	674,184	3,490,578	941,215	3,168,900	2,227,685	236.68%
19840 Work in Progress - Eq	0	0	0	0	0	N/A
19841 Work in Progress - Intang	10,679	7,000	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0		
SUBTOTAL	684,863	3,497,578	941,215	3,168,900	2,227,685	236.68%

Section Title:

Petaluma Aqueduct Capital Fund

Fund/Department No:

44235

33045100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
<u>SPECIAL ITEMS</u>						
56030 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<u>OTHER FINANCING USES</u>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	684,863	3,497,578	941,215	3,168,900	2,227,685	236.68%
Adjustments to Reserves/Encumbrances:						
Advance to Common	0	0		0		
Increase/(Decrease) in Loan Payable	0	0		0		
Capitalized Interest	0	0		0		
Loss on Fixed Asset	0	0		0		
Principal Received on Loan	0	0		0		
Change in Encumbrances	4,325	0		0		
Donated Asset	0	0		0		
Unrealized Gain/ Loss (GASB 31)	267,243	0		0		
Rounding	1					
ENDING FUND BALANCE	7,843,323	6,524,167		3,482,877		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Sonoma Aqueduct Capital Fund
Fund/Department No: 44240 33045200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	662,993	126,146		247,354		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	12,728	480	480	6,350	5,870	1222.82%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(17,866)	0	0	0	0	N/A
SUBTOTAL	(5,138)	480	480	6,350	5,870	1222.82%
MISCELLANEOUS REVENUES						
46200 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	547,544	145,727	145,727	127,572	(18,155)	(12.46%)
47102 Transfers In - btw Govtl Func	0	0	155,000	155,000	0	0.00%
SUBTOTAL	547,544	145,727	300,727	282,572	(18,155)	(6.04%)
SPECIAL ITEMS						
48004 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL REVENUES	542,406	146,207	301,207	288,922	(12,286)	(4.08%)
EXPENDITURES						
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
53403 Loss-Disposed Capital Asset	0	0	0	0		
SUBTOTAL	0	0	0	0	0	N/A
FIXED ASSETS						
19820 Machinery and Equipment	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	1,338,547	25,000	25,000	283,150	258,150	1032.60%
19840 Work in Progress - Eq	0	0	0	0		
19841 Work in Progress - Intang	0	0	0	0		
19851 Intangible Assets - Non-amoi	0	0	0	0		
SUBTOTAL	1,338,547	25,000	25,000	283,150	258,150	1032.60%
OTHER FINANCING USES						
57011 Transfers Out - within a Func	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	1,338,547	25,000	25,000	283,150	258,150	1032.60%
Adjustments to Reserves/Encumbrances:						
Outstanding Encumbrances - Net Change	471,530	0		0		
Sale or Purchase of Fixed Asset	0	0		0		
Unrealized Gain/ Loss (GASB 31)	17,866	0		0		
Post Audit Adjustment	(230,103)	0		0		
Rounding	1	0		0		
ENDING FUND BALANCE	126,146	247,354		253,125		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities

Fund/Department No: 44250 33043000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	1,078,199	1,279,741		462,652		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	6,234	3,000	0	5,412	5,412	N/A
44050 Unrealized Gains & Losses	(36,048)	0	0	0	0	N/A
SUBTOTAL	(29,814)	3,000	0	5,412	5,412	N/A
MISCELLANEOUS REVENUE						
46021 Capital Grants - Federal	0	0	0	0	0	N/A
46022 Capital Grants - State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
Administrative Control						
49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	356,657	220,000	220,000	117,000	(103,000)	(46.82%)
47102 Transfers In - btw Govtl Funds	0	900,000	900,000	288,000	(612,000)	(68.00%)
SUBTOTAL	356,657	1,120,000	1,120,000	405,000	(715,000)	(63.84%)
TOTAL REVENUES	326,843	1,123,000	1,120,000	410,412	(709,588)	(63.36%)
EXPENDITURES						
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53403 Loss - Disposed Capital Asset	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
FIXED ASSETS						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	105,823	1,886,928	1,100,000	897,335	(202,665)	(18.42%)
19841 Acq-WIP-Intangibles	9,133	53,161	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	114,956	1,940,089	1,100,000	897,335	(202,665)	(18.42%)

Section Title:

Storage Facilities

Fund/Department No:

44250

33043000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
ADMINISTRATIVE CONTROL ACCOUNT						
59002 Advances	0	0	0	0	0	N/A
59003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	114,956	1,940,089	1,100,000	897,335	(202,665)	(18.42%)
Adjustments to Reserves/Encumbrances:						
Repayment of Loan from SR Aqueduct Cap	0	0		0		
Princ. Pymnt on loan from SR Aqueduct Cap	0	0		0		
Advances	0	0		0		
Outstanding Encumbrances - Net Change	0	0		0		
PY CIP adjustment - reclass to PY Exp	0	0		0		
B & I Tsfrs	0	0		0		
LTD Proceeds	0	0		0		
Sold Asset	0	0		0		
Capitalized Interest	0	0		0		
Move Project CIP Balance	0	0		0		
Gain/loss on disposal of Capital Assets	0	0		0		
Unrealized Gain/ Loss (GASB 31)	36,048	0		0		
Change in Encumbrances	(46,393)	0		0		
Rounding	1	0		0		
ENDING FUND BALANCE	1,279,741	462,652		(24,271)		

FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY

Section Title: Common Facilities
Fund/Department No: 44260 33043200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	11,978,801	5,478,792		4,964,324		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	79,190	60,000	4,800	68,343	63,543	1323.81%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(361,419)	(10,000)	0	0	0	N/A
SUBTOTAL	(282,229)	50,000	4,800	68,343	63,543	1323.81%
CHARGES FOR SERVICES						
45062 Construct/Bldg Permit Rvw Svc	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
MIECELLANEOUS REVENUES						
46021 Capital Grants - Federal	2,360,232	217,505	0	0	0	N/A
46022 Capital Grants - State	694,516	5,759,588	3,900,000	1,140,000	(2,760,000)	(70.77%)
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	254,106	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenu	1,730	0	0	0	0	N/A
SUBTOTAL	3,310,584	5,977,093	3,900,000	1,140,000	(2,760,000)	(70.77%)
ADMINISTRATIVE CONTROL						
49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	2,140,661	11,100,000	6,100,000	2,300,000	(3,800,000)	(62.30%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	2,140,661	11,100,000	6,100,000	2,300,000	(3,800,000)	(62.30%)
TOTAL REVENUES	5,169,016	17,127,093	10,004,800	3,508,343	(6,496,457)	(64.93%)
EXPENDITURES						
OTHER CHARGES						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53403 Loss - Disposed Capital Asset	1,059,243	0	0	0	0	N/A
SUBTOTAL	1,059,243	0	0	0	0	N/A
FIXED ASSETS						
19810 Land	0	0	0	0	0	N/A
19812 Acq-CIP-Land	22,233	0	0	0	0	N/A
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	12,227,806	16,641,561	11,134,466	7,926,200	(3,208,266)	(28.81%)
19840 Acq-WIP-Equipment	0	0	0	0	0	N/A
19841 Work in Progress - Intang	2,694	500,000	0	0	0	N/A

Section Title:

Common Facilities

Fund/Department No:

44260 33043200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
19851 Intangible Assets - Non-amort	0	500,000	0	0	0	N/A
SUBTOTAL	12,252,733	17,641,561	11,134,466	7,926,200	(3,208,266)	(28.81%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
ADMINISTRATIVE CONTROL ACCOUNT						
59002 Advances	0	0	0	0	0	N/A
59003 Advances Clearing	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	13,311,975	17,641,561	11,134,466	7,926,200	(3,208,266)	(28.81%)
Adjustments to Reserves/Encumbrances:						
Loan from Petaluma Aqueduct Capital Func	0	0		0		
Technical Adjustments - BRO's	0	0		0		
Principal payment on Loan from Petaluma / Advances	0	0		0		
Outstanding Encumbrances - Net Change	714,080	0		0		
Capitalized Interest	0	0		0		
Gain/loss on disposal of Capital Assets	1,059,243	0		0		
Proceeds from State Loan & Other LT Debt	0	0		0		
PY CIP adjustment - reclass to PY Exp (los:	0	0		0		
B & I Tsfr to ISF (Facilities) Fund	0	0		0		
Auditor Adj - Reversal of Duplicate Pymt	0	0		0		
Sale or Purchase of Fixed Asset	0	0		0		
Change in Deposit w/Others	0	0		0		
Move Project CIP Balance	0	0		0		
Change in Contingent Liability	0	0		0		
Post Audit Adjustment	(491,790)	0		0		
Unrealized Gain/ Loss (GASB 31)	361,419	0		0		
Rounding	(1)	0		0		
ENDING FUND BALANCE	5,478,792	4,964,324		546,467		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: North Marin Water Deposit
Fund/Department No: 44300 33045300

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	1,127,825	28,095		28,175		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	6,486	81	81	710	629	779.98%
44050 Unrealized Gains and Losses	(39,055)	0	0	0	0	N/A
SUBTOTAL	(32,569)	81	81	710	629	779.98%
Intergovernmental Revenue						
42610 Other Governmental Agencies	52,545	0	0	0	0	N/A
SUBTOTAL	52,545	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL REVENUES	19,977	81	81	710	629	779.98%
EXPENDITURES						
OTHER CHARGES						
53501 Contributions	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	1,106,217	0	0	0	0	N/A
SUBTOTAL	1,106,217	0	0	0	0	N/A
TOTAL EXPENDITURES	1,106,217	0	0	0	0	N/A
Adjustments to Reserves/Encumbrances:						
Unrealized Gain/ Loss (GASB 31)	39,055	0				
Post Audit Adjustment	(52,545)	0				
Post Audit Adjustment	0	0				
Rounding	0	(1)				
ENDING FUND BALANCE	28,095	28,175		28,884		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: State Loan Debt Service Fund

Fund/Department No: 44265 33047000

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$606,376	\$638,781		\$651,789		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	8,417	1,920	1,920	17,189	15,269	795.28%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(55,253)	0	0	0	0	N/A
SUBTOTAL	(46,836)	1,920	1,920	17,189	15,269	795.28%
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	1,196,267	1,196,268	1,196,268	1,196,268	0	0.00%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	1,196,267	1,196,268	1,196,268	1,196,268	0	0.00%
TOTAL REVENUES	1,149,431	1,198,188	1,198,188	1,213,457	15,269	1.27%
EXPENDITURES						
OTHER CHARGES						
53103 Interest on LT Debt	177,619	153,355	153,355	153,355	0	0.00%
SUBTOTAL	177,619	153,355	153,355	153,355	0	0.00%
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	120,000	120,000	120,000	120,000	0	0.00%
SUBTOTAL	120,000	120,000	120,000	120,000	0	0.00%
ADMIN. CONTROL ACCOUNT						
59002 Advances	862,613	886,878	886,878	886,878	0	0.00%
59003 Advances Clearing	(862,613)	(886,878)	(886,878)	(886,878)	0	0.00%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	297,619	273,355	273,355	273,355	0	0.00%
Adjustments to Reserves/Encumbrances:						
Principal payments on loan	(874,661)	0				
(Increase) / Decrease in Principal Payable	0	(911,825)		(839,012)		
Advances from Other Govt	55,253	0		(22,328)		
Unrealized Gain/ Loss (GASB 31)	1	0		0		
Rounding	0	0		0		
ENDING FUND BALANCE	\$638,781	\$651,789		\$730,551		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: State Loan Reserve Fund

Fund/Department No: 44270 33047100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$0	(\$0)		(\$0)		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	0	0	0	(0)	(0)	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(45,179)	0	0	0	0	N/A
SUBTOTAL	(45,179)	0	0	(0)	(0)	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL REVENUES	(45,179)	0	0	(0)	(0)	N/A
EXPENDITURES						
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	0	0	0	0	0	N/A
Adjustments to Reserves/Encumbrances:						
Increase in Reserve	0	0		0		
Unrealized Gain/ Loss (GASB 31)	45,179	0				
Rounding	0	0				
ENDING FUND BALANCE	(\$0)	(\$0)		(\$0)		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities Revenue Bond - 2012A
Fund/Department No: 44280 33047300

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$110,231	\$140		\$139		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	366	0	0	3	3	#####
44003 Other Interest Earnings	263	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(5,368)	0	0	0	0	N/A
SUBTOTAL	(4,739)	0	0	3	3	#####
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	309,610	0	308,325	0	(308,325)	(100.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	309,610	0	308,325	0	(308,325)	(100.00%)
SPECIAL ITEMS						
48004 Transfers In - within a Fund	2,526,439	0	0	0	0	N/A
SUBTOTAL	2,526,439	0	0	0	0	N/A
TOTAL REVENUES	2,831,310	0	308,325	3	(308,322)	(100.00%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	884	0	1,000	0	(1,000)	(100.00%)
SUBTOTAL	884	0	1,000	0	(1,000)	(100.00%)
OTHER CHARGES						
53103 Interest on LT Debt	76,338	0	72,300	0	(72,300)	(100.00%)
53104 Other Interest Expense	(5,056)	0	5,526	0	(5,526)	(100.00%)
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	71,282	0	77,826	0	(77,826)	(100.00%)
OTHER CHARGES						
56030 Interest on LT Debt	483,013	0	0	0	0	N/A
SUBTOTAL	483,013	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	206,657	0	70,000	0	(70,000)	(100.00%)
SUBTOTAL	206,657	0	70,000	0	(70,000)	(100.00%)
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	183,077	0	189,283	0	(189,283)	(100.00%)
59005 Admin Control Acct Clearing	(183,077)	0	(189,283)	0	189,283	(100.00%)
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	761,836	0	148,826	0	(148,826)	(100.00%)
Adjustments to Reserves/Encumbrances:						
Principal payments on bonds	0	0		0		
Restricted cash with trustee (reserve)	0					
Debt Issuance Costs						
(Increase) / Decrease in Bonds Payable	0					
Amortization of bond discount	0	0		0		
Amortization of deferred amount of refunding	60,786	0		0		
Changed in Reserved Fund Balance	260,067					
Unrealized Gain/ Loss (GASB 31)	5,368					
Change in Principal - Refund of Debt	(2,392,413)					
Change in bond premium - Refund of Debt	(113,373)					
Rounding	0	(1)				
ENDING FUND BALANCE	\$140	\$139		\$142		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds - 2012 A

Fund/Department No:

44275 33047200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEG. FUND BALANCE	\$398,235	\$194		\$194		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	1,443	0	1,440	99	(1,341)	(93.15%)
44003 Other Interest Earnings	368	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(15,981)	0	0	0	0	N/A
SUBTOTAL	(14,170)	0	1,440	99	(1,341)	(93.15%)
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	433,705	0	431,907	0	(431,907)	(100.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	433,705	0	431,907	0	(431,907)	(100.00%)
SPECIAL ITEMS						
48004 Transfers In - within a Fund	3,467,653	0	0	0	0	N/A
SUBTOTAL	3,467,653	0	0	0	0	N/A
TOTAL REVENUES	3,887,188	0	433,347	99	(433,248)	(99.98%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	1,138	0	1,500	0	(1,500)	(100.00%)
SUBTOTAL	1,138	0	1,500	0	(1,500)	(100.00%)
OTHER CHARGES						
53103 Interest on LT Debt	106,893	0	101,239	0	(101,239)	(100.00%)
53104 Other Interest Expense	(6,539)	0	7,787	0	(7,787)	(100.00%)
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	100,354	0	109,026	0	(109,026)	(100.00%)
OTHER CHARGES						
56030 Interest on LT Debt	676,343	0	0	0	0	N/A
SUBTOTAL	676,343	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	464,444	0	0	0	0	N/A
SUBTOTAL	464,444	0	0	0	0	N/A
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	256,355	0	265,045	0	(265,045)	(100.00%)
59005 Admin Control Acct Clearing	(256,355)	0	(265,045)	0	265,045	(100.00%)
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	1,242,279	0	110,526	0	(110,526)	(100.00%)
Adjustments to Reserves/Encumbrances:						
Principal payments on bonds	0	0		0		
(Increase) / Decrease in Bonds Payable	0	0		0		
Restricted cash with trustee (reserve)	364,160	0		0		
Amortization of bond discount	0	0		0		
Amortization of bond premium	0	0		0		
Amortization of deferred amount of refunding	85,656	0		0		
Unrealized Gain/ Loss (GASB 31)	15,981	0		0		
Change in Principal - Refund of Debt	(3,349,995)					
Change in bond premium - Refund of Debt	(158,752)					
Rounding	0			0		
ENDING FUND BALANCE	\$194	\$194		\$293		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Sonoma Aqueduct Revenue Bonds 2012

Fund/Department No: 44285 33047400

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$134,670	\$114		\$114		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	470	0	960	65	(895)	(93.19%)
44003 Other Interest Earnings	216	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(5,935)	0	0	0	0	N/A
SUBTOTAL	(5,249)	0	960	65	(895)	(93.19%)
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	254,884	(0)	253,827	0	(253,827)	(100.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	254,884	(0)	253,827	0	(253,827)	(100.00%)
SPECIAL ITEMS						
48004 Transfers In - within a Fund	2,036,697	0	0	0	0	N/A
SUBTOTAL	2,036,697	0	0	0	0	N/A
TOTAL REVENUES	2,286,333	(0)	254,787	65	(254,722)	(99.97%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	775	0	1,000	0	(1,000)	(100.00%)
SUBTOTAL	775	0	1,000	0	(1,000)	(100.00%)
OTHER CHARGES						
53103 Interest on LT Debt	62,783	0	59,462	0	(59,462)	(100.00%)
53104 Other Interest Expense	(3,723)	0	4,585	0	(4,585)	(100.00%)
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
SUBTOTAL	59,060	0	64,047	0	(64,047)	(100.00%)
OTHER CHARGES						
56030 Interest on LT Debt	397,245	0	0	0	0	N/A
SUBTOTAL	397,245	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	173,224	0	0	0	0	N/A
SUBTOTAL	173,224	0	0	0	0	N/A
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	150,568	(155,672)	0	0	0	N/A
59005 Admin Control Acct Clearing	(150,568)	155,672	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	630,304	0	65,047	0	(65,047)	(100.00%)
Adjustments to Reserves/Encumbrances:						
(Increase)/Decrease in Bonds Payable						
Principal Payments on Bonds	0	0		0		
Amortization of bond discount	0	0		0		
Change in Reserved Fund Balance	213,887	0		0		
Capitalized Interest	0	0		0		
Amortization of deferred amount of refundir	50,427	0		0		
Change in Principal - Refund of Debt	(1,967,592)					
Change in bond premium - Refund of Debt	(93,242)					
Unrealized Gain/ Loss (GASB 31)	5,935	0		0		
Rounding	0	0		0		
ENDING FUND BALANCE	\$114	\$114		\$179		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bonds 2015

Fund/Department No:

44290 33047500

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$212,358	\$131,617		\$49,750		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	1,730	432	432	651	219	50.61%
44003 Other Interest Earnings	170	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(9,646)	0	0	0	0	N/A
SUBTOTAL	(7,746)	432	432	651	219	50.61%
Miscellaneous Revenues						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	476,381	480,268	480,268	477,198	(3,069)	(0.64%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	476,381	480,268	480,268	477,198	(3,069)	(0.64%)
TOTAL REVENUES	468,635	480,700	480,700	477,849	(2,851)	(0.59%)
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	1,174	1,500	1,500	1,500	0	0.00%
SUBTOTAL	1,174	1,500	1,500	1,500	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	169,148	157,214	157,214	144,521	(12,693)	(8.07%)
53104 Other Interest Expense	(11,468)	5,058	5,058	5,058	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
SUBTOTAL	157,680	162,272	162,272	149,579	(12,693)	(7.82%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	150,000	150,000	150,000	117,000	(33,000)	(22.00%)
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	150,000	150,000	150,000	117,000	(33,000)	(22.00%)
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	238,545	253,852	253,852	263,876	10,024	3.95%
59005 Admin Control Acct Clearing	(238,545)	(253,852)	(253,852)	(263,876)	(10,024)	3.95%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	308,854	313,772	313,772	268,079	(45,693)	(14.56%)
Adjustments to Reserves/Encumbrances:						
Change in Principal due to Bond Reallocation	0					
Change in Bond Premium due to Bond Realloc	0					
Capitalized Interest	0					
Loss on Refunding of Debt	5,058	5,058		5,058		
Principal Payment	(238,545)	(253,852)		(263,876)		
Special Fund Stmt's!B449	0	0		0		
Amortization of Bond Premium	(16,526)	0		0		
Change in Reserved Fund Balance	(156)					
Unrealized Gain/ Loss (GASB 31)	9,646					
Rounding	0	(0)				
ENDING FUND BALANCE	\$131,617	\$49,750		\$702		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds 2015

Fund/Department No:

44295

33047600

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEG. FUND BALANCE	\$482,808	\$351,484		\$338,871		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	3,994	2,400	2,400	8,381	5,981	249.22%
44003 Other Interest Earnings	167	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(22,436)	0	0	0	0	N/A
SUBTOTAL	(18,275)	2,400	2,400	8,381	5,981	249.22%
MISCELLANEOUS REVENUES						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	1,224,505	1,230,285	1,230,285	1,228,700	(1,585)	(0.13%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	1,224,505	1,230,285	1,230,285	1,228,700	(1,585)	(0.13%)
TOTAL REVENUES	1,206,230	1,232,685	1,232,685	1,237,082	4,397	0.36%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	2,075	2,500	2,500	2,500	0	0.00%
SUBTOTAL	2,075	2,500	2,500	2,500	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	483,196	454,461	454,461	424,044	(30,417)	(6.69%)
53104 Other Interest Expense	(25,008)	4,516	4,516	4,516	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
SUBTOTAL	458,188	458,977	458,977	428,560	(30,417)	(6.63%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	300,000	180,000	180,000	180,000	0	0.00%
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	300,000	180,000	180,000	180,000	0	0.00%
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	574,580	608,336	608,336	637,375	29,039	4.77%
59005 Admin Control Acct Clearing	(574,580)	(608,336)	(608,336)	(637,375)	(29,039)	4.77%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	760,263	641,477	641,477	611,060	(30,417)	(4.74%)
Adjustments to Reserves/Encumbrances:						
Principal Payment	(574,580)	(608,336)		(637,375)		
Change in Principal due to Bond Reallocat	0	0		0		
Change in Bond Premium due to Bond Re	0	0		0		
Revenue Bonds Pay - Change in Current E	0	0		0		
Amortization of Bond Premium	(29,523)	0		0		
Capitalized Interest	0			0		
Change in Reserved Fund Balance	(139)			0		
Loss on Refunding Debt	4,515	4,515		0		
Unrealized Gain/ Loss (GASB 31)	22,436	0		0		
Rounding	(1)	0		0		
ENDING FUND BALANCE	\$351,484	\$338,871		\$327,517		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2015

Fund/Department No:

44305

33047700

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$96,882	\$102,582		\$78,537		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	591	384	384	1,238	854	222.35%
44003 Other Interest Earnings	1	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(3,522)	0	0	0	0	N/A
SUBTOTAL	(2,929)	384	384	1,238	854	222.35%
MISCELLANEOUS REVENUES						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	37,809	37,917	37,917	37,971	54	0.14%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	37,809	37,917	37,917	37,971	54	0.14%
TOTAL REVENUES	34,880	38,301	38,301	39,209	908	2.37%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	325	500	500	500	0	0.00%
SUBTOTAL	325	500	500	500	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	15,502	14,658	14,658	13,768	(890)	(6.07%)
53104 Other Interest Expense	(689)	0	0	0	0	N/A
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	14,812	14,658	14,658	13,768	(890)	(6.07%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	65,000	65,000	65,000	0	0.00%
SUBTOTAL	0	65,000	65,000	65,000	0	0.00%
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	16,875	17,813	17,813	18,750	937	5.26%
59005 Admin Control Acct Clearing	(16,875)	(17,813)	(17,813)	(18,750)	(937)	5.26%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	15,137	80,158	80,158	79,268	(890)	(1.11%)
Adjustments to Reserves/Encumbrances:						
Change in Principal due to Bond Reallocation	0	0		0		
Change in Bond Premium due to Bond Realloc	0	0		0		
Accrual of Principal Payment - Revenue Bonds	(16,875)	17,813		(18,750)		
Principal Payment	0	0		0		
Amortization of Bond Premium	(689)	0		0		
Unrealized Gain/ Loss (GASB 31)	3,522	0		0		
Change in Reserved Fund Balance	0					
Rounding	(1)	0		0		
ENDING FUND BALANCE	\$102,582	\$78,537		\$19,728		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds 2019

Fund/Department No:

44310

33047800

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEG. FUND BALANCE	\$102,593	\$41,116		\$708,986		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	1,199	480	480	18,860	18,380	3829.10%
44003 Other Interest Earnings	133	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(6,686)	0	0	0	0	N/A
SUBTOTAL	(5,354)	480	480	18,860	18,380	3829.10%
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	674,569	676,780	676,780	676,992	213	0.03%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	674,569	676,780	676,780	676,992	213	0.03%
TOTAL REVENUES	669,215	677,260	677,260	695,852	18,592	2.75%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	2,675	3,000	3,000	3,000	0	0.00%
SUBTOTAL	2,675	3,000	3,000	3,000	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	307,780	293,933	293,933	279,355	(14,578)	(4.96%)
53104 Other Interest Expense	(54,724)	0	0	0	0	N/A
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	253,056	293,933	293,933	279,355	(14,578)	(4.96%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	150,000	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	150,000	0	0	0	0	N/A
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	276,808	291,571	291,571	306,334	14,763	5.06%
59005 Admin Control Acct Clearing	(276,808)	(291,571)	(291,571)	(306,334)	(14,763)	5.06%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	405,731	296,933	296,933	282,355	(14,578)	(4.91%)
Adjustments to Reserves/Encumbrances:						
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	0	0		0		
Deposit to Cost of Issuance Fund	0	0		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Principal Payment	(276,808)	(291,571)		(306,334)		
Revenue Bonds Pay-Change in Current Bal	0	0		0		
Amortization of Bond Premium	(54,724)	0		0		
Change in Reserved Fund Balance	0	0		0		
Post Audit Adjustments - Closing COI	0	0		0		
Loss on Refunding of Debt	0	0		0		
Unrealized Gain/ Loss (GASB 31)	6,686	0		0		
Changed in Reserved Fund Balance	(115)	579,115		0		
Rounding	0	0		0		
ENDING FUND BALANCE	\$41,116	\$708,986		\$816,149		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2019

Fund/Department No:

44315

33047900

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$291,998	\$124,939		\$272,227		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	1,893	480	480	7,463	6,983	1454.71%
44003 Other Interest Earnings	47	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(11,120)	0	0	0	0	N/A
SUBTOTAL	(9,180)	480	480	7,463	6,983	1454.71%
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	239,626	240,577	240,577	240,651	75	0.03%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	239,626	240,577	240,577	240,651	75	0.03%
TOTAL REVENUES	230,446	241,057	241,057	248,114	7,057	2.93%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	1,213	1,500	1,500	1,500	0	0.00%
SUBTOTAL	1,213	1,500	1,500	1,500	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	109,179	104,267	104,267	99,096	(5,171)	(4.96%)
53104 Other Interest Expense	(19,412)	0	0	0	0	N/A
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	89,767	104,267	104,267	99,096	(5,171)	(4.96%)
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	200,000	90,000	90,000	90,000	0	0.00%
SUBTOTAL	200,000	90,000	90,000	90,000	0	0.00%
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	98,192	103,430	103,430	108,666	5,236	5.06%
59005 Admin Control Acct Clearing	(98,192)	(103,430)	(103,430)	(108,666)	(5,236)	5.06%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	290,980	195,767	195,767	190,596	(5,171)	(2.64%)
Adjustments to Reserves/Encumbrances:						
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	0	0		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Accrual of Principal Payment - Revenue Bon	(98,192)	(103,430)		0		
Principal Payment	0	0		0		
Deposit to Cost of Issuance Fund	0	0		0		
Bond Premium - Issuance of Revenue Bonds	0	0		0		
Amortization of Bond Premium	(19,412)	0		0		
Unrealized Gain/ Loss (GASB 31)	11,120	0		0		
Change in Reserved Fund Balance	(41)	205,429		0		
Rounding	(1)	0		0		
ENDING FUND BALANCE	\$124,939	\$272,227		\$329,745		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities Revenue Bonds 2022

Fund/Department No: 44325 33048100

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEG. FUND BALANCE	\$0	\$947,409		\$232,908		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	923	0	0	2,915	2,915	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(34,664)	0	0	0	0	N/A
SUBTOTAL	(33,741)	0	0	2,915	2,915	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	0	385,782	77,457	355,015	277,558	358.34%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	0	385,782	77,457	355,015	277,558	358.34%
SPECIAL ITEMS						
48004 Residual Equity Transfers	433,013	0	0	0	0	N/A
SUBTOTAL	433,013	0	0	0	0	N/A
TOTAL REVENUES	399,272	385,782	77,457	357,930	280,473	362.10%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	0	560	500	560	60	12.00%
SUBTOTAL	0	560	500	560	60	12.00%
OTHER CHARGES						
53103 Interest on LT Debt	4,809	129,724	29,724	119,587	89,863	302.33%
53104 Other Interest Expense	0	0	0	0	0	N/A
53105 Costs of Issuance	44,018	0	0	0	0	N/A
SUBTOTAL	48,827	129,724	29,724	119,587	89,863	302.33%
SPECIAL ITEMS						
56030 Residual Equity Transfers	2,476,439	0	0	0	0	N/A
SUBTOTAL	2,476,439	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	970,000	900,000	288,000	(612,000)	(68.00%)
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	970,000	900,000	288,000	(612,000)	(68.00%)
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	0	180,131	37,131	188,562	151,431	407.83%
59005 Admin Control Acct Clearing	0	(180,131)	(37,131)	(188,562)	(151,431)	407.83%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	2,525,265	1,100,284	930,224	408,147	(522,077)	(56.12%)
Adjustments to Reserves/Encumbrances:						
CBA's - Included in Est. Current Yr Expenses	0	0		0		
Gain on Refunding	44,214	0		0		
Issuance of Revenue Bonds	2,693,401	0		0		
Accrual of Principal Payment - Revenue Bonds	0	0		(179,472)		
Unrealized Gain/ Loss (GASB 31)	34,664	0		0		
Bond Premium	301,517	0		0		
Post Audit Adjustment	(394)	0		0		
Rounding	0	0		0		
ENDING FUND BALANCE	\$947,409	\$232,908		\$3,219		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Common Facilities Revenue Bonds 2022

Fund/Department No: 44335 33048300

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEG. FUND BALANCE	\$0	\$13,985,191		\$9,348,820		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	5,684	0	0	210,969	210,969	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(485,301)	0	0	0	0	N/A
SUBTOTAL	(479,617)	0	0	210,969	210,969	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	0	1,562,860	1,080,953	1,378,983	298,031	27.57%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	0	1,562,860	1,080,953	1,378,983	298,031	27.57%
SPECIAL ITEMS						
48004 Residual Equity Transfers	676,343	0	0	0	0	N/A
SUBTOTAL	676,343	0	0	0	0	N/A
TOTAL REVENUES	196,726	1,562,860	1,080,953	1,589,952	509,000	47.09%
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	0	4,000	4,000	4,000	0	0.00%
SUBTOTAL	0	4,000	4,000	4,000	0	0.00%
OTHER CHARGES						
53103 Interest on LT Debt	27,279	696,130	416,130	666,486	250,356	60.16%
53104 Other Interest Expense	0	0	0	0	0	N/A
53105 Costs of Issuance	249,690	0	0	0	0	N/A
SUBTOTAL	276,969	696,130	416,130	666,486	250,356	60.16%
SPECIAL ITEMS						
56030 Residual Equity Transfers	3,467,653	0	0	0	0	N/A
SUBTOTAL	3,467,653	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	5,000,000	5,800,000	2,000,000	(3,800,000)	(65.52%)
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	0	5,000,000	5,800,000	2,000,000	(3,800,000)	(65.52%)
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	0	519,829	519,829	528,630	8,801	1.69%
59005 Admin Control Acct Clearing	0	(519,829)	(519,829)	(528,630)	(8,801)	1.69%
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	3,744,622	5,700,130	6,220,130	2,670,486	(3,549,644)	(57.07%)
Adjustments to Reserves/Encumbrances:						
CBA's - Included in Est. Current Yr Expenses	0	0		0		
Proceeds Bond Issuance	15,539,615	0		0		
Gain on Refunding	61,911	0		0		
Principal Payment	0	(499,101)		(528,630)		
Bond Premium - Issuance of Revenue Bonds	1,445,451	0		0		
Unrealized Gain/ Loss (GASB 31)	485,301	0		0		
Post Audit Adjustment	808	0		0		
Rounding	1	0		0		
ENDING FUND BALANCE	\$13,985,191	\$9,348,820		\$7,739,656		

**FY 2023-24 BUDGET
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2022

Fund/Department No:

44330

33048200

Account Title	Actual 2021-2022	Estimated 2022-2023	Adopted 2022-2023	Requested 2023-24	Difference	Percent Change
BEGINNING FUND BALANCE	\$0	(\$1,287)		\$47,762		
REVENUES						
USE OF MONEY / PROPERTY						
44002 Interest on Pooled Cash	587	0	0	1,576	1,576	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	0	0	0	0	0	N/A
SUBTOTAL	587	0	0	1,576	1,576	N/A
OTHER FINANCING SOURCES						
47101 Transfers In - within a Fund	0	253,827	0	234,526	234,526	N/A
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	0	253,827	0	234,526	234,526	N/A
SPECIAL ITEMS						
48004 Residual Equity Transfers	397,245	0	0	0	0	N/A
SUBTOTAL	397,245	0	0	0	0	N/A
TOTAL REVENUES	397,831	253,827	0	236,103	236,103	N/A
EXPENDITURES						
SERVICES AND SUPPLIES						
51242 Bank Charges	0	350	0	350	350	N/A
SUBTOTAL	0	350	0	350	350	N/A
OTHER CHARGES						
53103 Interest on LT Debt	2,614	73,000	0	65,778	65,778	N/A
53104 Other Interest Expense	0	0	0	0	0	N/A
53105 Costs of Issuance	23,926	0	0	0	0	N/A
SUBTOTAL	26,541	73,000	0	65,778	65,778	N/A
SPECIAL ITEMS						
56030 Residual Equity Transfers	2,036,697	0	0	0	0	N/A
SUBTOTAL	2,036,697	0	0	0	0	N/A
OTHER FINANCING USES						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
ADMIN. CONTROL ACCOUNT						
59004 Administrative Control Account	0	132,000	0	137,808	137,808	N/A
59005 Admin Control Acct Clearing	0	(132,000)	0	(137,808)	(137,808)	N/A
SUBTOTAL	0	0	0	0	0	N/A
TOTAL EXPENDITURES	2,063,238	73,350	0	66,128	66,128	N/A
Adjustments to Reserves/Encumbrances:						
CBA's - Included in Est. Current Yr Expense:	0	0		0		
Gain on Refunding	36,363	0		0		
Issuance of Revenue Bonds	1,446,984	0		0		
Accrual of Principal Payment - Revenue Bor	0	(131,428)		0		
Principal Payment	0	0		(137,808)		
Bond Premium - Issuance of Revenue Bond	181,185	0		0		
Post Audit Adjustment	(413)	0		0		
Rounding	0	0		0		
ENDING FUND BALANCE	(\$1,287)	\$47,762		\$79,929		

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY23-24

A. ANNUAL DEBT SERVICE REQUIREMENTS

	Common Facilities	O&M Fund	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
2012 A Revenue Bond	44275	TBD	TBD	44280	44285
PRINCIPAL	0			0	0
INTEREST	0			0	0
OTHER INTEREST - DEFERRED REFUNDING CHARGE	0			0	0
FISCAL AGENT FEES	0			0	0
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	0	0		0	0
Bond Reserve	0	0		0	0
Total Individual Bond Debt Service	0	0		0	0
2015A Revenue Bond	44295			44290	44305
PRINCIPAL	637,375			263,876	18,750
INTEREST	424,044			144,521	13,768
OTHER INTEREST - DEFERRED REFUNDING CHARGE	4,516			5,058	0
FISCAL AGENT FEES	2,500			1,500	500
Total Individual Bond Payments	1,068,435			414,955	33,018
Bond Reserve	160,265			62,243	4,953
Total Individual Bond Debt Service	1,228,700			477,198	37,971
2019A Revenue Bond	44310			44320	44315
PRINCIPAL	306,334				108,666
INTEREST	279,355				99,096
FISCAL AGENT FEES	3,000				1,500
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	588,689			0	209,262
Bond Reserve	88,303			0	31,389
Total Individual Bond Debt Service	676,992			0	240,651
2022A Revenue Bond	44335			44325	44330
PRINCIPAL	528,630			188,562	137,808
INTEREST	666,486			119,587	65,778
FISCAL AGENT FEES	4,000			560	350
DEBT ISSUANCE COSTS					0
Total Individual Bond Payments	1,199,116			308,709	203,936
Bond Reserve	179,867			46,306	30,590
Total Individual Bond Debt Service	1,378,983			355,015	234,526
SRF LOAN	44265				
PRINCIPAL	886,878			N.A	N.A
INTEREST	153,355			N.A	N.A
Total Individual Loan Payments	1,040,233				
Reserve Requirement	156,035				
Total SRF Debt Service	1,196,268				
SRF LOAN RESERVE					
RESERVE				N.A	N.A
Total SRF Debt Service	1,196,268				
TOTAL DEBT SERVICE	\$4,480,944	\$0	\$0	\$832,214	\$513,148
LESS REV. FROM N. MARIN REV. BOND CHARGES	494,028				
REMAINING REVENUE REQUIREMENT	\$3,986,916	\$0	\$0	\$832,214	\$513,148

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY23-24

A. ANNUAL DEBT SERVICE REQUIREMENTS

Common Facilities	O&M Fund	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
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B. CALCULATIONS OF WATER RATES FOR FY23-24

	Common Facilities Debt Service Charge	O&M Fund Debt Service Charge	Water Conservation Debt Service Charge	Storage Facilities Revenue Bonds Charge	Sonoma Pipeline Facilities Revenue Bonds Charge
REVENUE REQUIREMENT	\$3,986,915.53	\$0	\$0	\$832,214	\$513,148
APPLICABLE BASE WATER DELIVERIES IN A.F.	28,557.77	41,799.9	41,799.9	28,557.77	3,383.1
CHARGES PER ACRE-FEET	\$139.61	\$0.00	\$0.00	\$29.14	\$151.68

C. CALCULATIONS OF NORTH MARIN REVENUE BONDS CHARGE

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (<i>Remaining Facilities per RA 4.3a2</i>)	\$1,943,039
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (11.2/90.4))	240,730
ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)	5,303
NORTH MARIN REVENUE BONDS CHARGE	45.39
REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (<i>Additional Facilities per RA 4.3b9</i>)	1,860,913
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (19.9/146.2))	253,298
ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)	5,303
NORTH MARIN REVENUE BONDS CHARGE	47.76

Remaining Facilities: SRF Loan, 2015A Revenue Bond Refunding, 2022 Revenue Bond Refunding

Additional Facilities: 2015A Revenue Bond New Money, 2022 Revenue Bond New Money

Excluded: 2019A Revenue Bond - NMWD Paid Cash

FY23/24					
	Principal	Interest	Reserve Requirement	Fiscal Agent Fee + Other Charges	Total
SRF LOAN	886,878	153,355	156,035		1,196,268
2015A Revenue Bond	637,375	424,044	160,265	7,016	1,228,700
<i>2015A Revenue Bond New Money</i>	<i>439,277</i>	<i>322,539</i>	<i>115,028</i>	<i>5,036</i>	<i>881,880</i>
<i>2015A Revenue Bond Refunding</i>	<i>198,098</i>	<i>101,505</i>	<i>45,237</i>	<i>1,980</i>	<i>346,821</i>
2019A Revenue Bond	306,334	279,355	88,303	3,000	676,992
2022A Revenue Bond	528,630	666,486	179,867	4,000	1,378,983
<i>2022A Revenue Bond New Money</i>	<i>294,000</i>	<i>554,493</i>	<i>127,700</i>	<i>2,840</i>	<i>979,033</i>
<i>2022A Revenue Bond Refunding</i>	<i>234,630</i>	<i>111,992</i>	<i>52,167</i>	<i>1,160</i>	<i>399,950</i>

FY 2023-24 BUDGET
Water Transmission System - Fund Balances and Operating Transfers

Fund	Index	OT Out (57012)	To	OT In (47102)	Fund Bal. (Stmnt.)	Fund Bal. (Cash)	Diff.
Santa Rosa Aq. Capital Fund	44230	0		298,319	8,991,672	8,991,671	(0)
Petaluma Aq. Capital Fund	44235	0		0	3,482,877	3,482,877	0
Sonoma Aq. Capital Fund	44240	0		282,572	253,125	253,125	0
Sonoma Rev Bond 2012 Fund	44285	0	Sonoma AQ	0	179	179	0
Sonoma Rev Bond 2015 Fund	44305	65,000	Sonoma AQ	37,971	19,728	19,728	0
Sonoma Rev Bond 2019 Fund	44315	90,000	Sonoma AQ	240,651	329,745	329,745	0
Sonoma Rev Bond 2022 Fund	44330	0	Sonoma AQ	234,526	79,929	79,929	0
Storage Rev Bond 2012 Fund	44280	0	Storage Facilities	0	142	142	0
Storage Rev Bond 2015 Fund	44290	117,000	Storage Facilities	477,198	702	702	(0)
Storage Rev Bond 2022 Fund	44325	288,000	Storage Facilities	355,015	3,219	3,219	0
Common Rev Bond 2012 Fund	44275	0	Common Facilities	0	293	293	0
Common Rev Bond 2015 Fund	44295	180,000	Common Facilities	1,228,700	327,517	327,517	0
Common Rev Bond 2019 Fund	44310	0	Common Facilities	676,992	816,149	816,149	0
Common Rev Bond 2022 Fund	44335	2,000,000	Common Facilities	1,378,983	7,739,656	7,739,656	0
State Loan Debt Service	44265	120,000	Common Facilities	1,196,268	730,551	730,551	0
State Loan Reserve	44270	0		0	(0)	(0)	0
Capital Lease Financing		0		0	0	0	0
Agency Fund (Discretionary)	44205	0	Common Facilities	0	9,675,550	9,675,550	0
Agency Fund (Charges)	44205	10,019,899		0			
Pipeline Facilities	44255			0	0	0	0
Storage Facilities	44250			405,000	(24,271)	(24,271)	0
Common Facilities	44260			2,300,000	546,468	546,467	(0)
North Marin	44300	0		0	28,884	28,884	0
Water Management Planning	44210			0	165,252	165,252	(0)
Watershed Planning/Restoration	44215			1,504,670	104,283	104,283	0
Recycled Water & Local Supply	44220			0	224,872	224,872	0
Water Conservation	44225			2,263,032	12,737	12,737	0
Total		12,879,899		12,879,899	33,509,258	33,509,257	(1)

Common Facilities OT - in 47101 From

Water Transmission (discretionary)	-
Water Transmission (Charges)	-
North Marin	-
2012 Bond Fund	-
2015 Bond Fund	180,000
2019 Bond Fund	-
2022 Bond Fund	2,000,000
State Loan Debt Service	120,000
Total	2,300,000

O&M Rate Computation
Revenue Requirement - Transfers Out:

10,019,899

Agency Fund (Charges) OT - Out To:

AQ Capital Funds	
Santa Rosa Aq. Capital Fund	298,319
Petaluma Aq. Capital Fund	0
Sonoma Aq. Capital Fund	127,572
Total	425,892

**Agency Fund (Charges) OT - Out To:
Summary**

AQ Capital Funds	425,892
Debt Service Funds	5,826,306
WT Subfunds	3,767,702
Total	10,019,899

Debt Service Funds

Sonoma Rev Bond 2012 Fund	0
Sonoma Rev Bond 2015 Fund	37,971
Sonoma Rev Bond 2019 Fund	240,651
Sonoma Rev Bond 2022 Fund	234,526
Storage Rev Bond 2012 Fund	0
Storage Rev Bond 2015 Fund	477,198
Storage Rev Bond 2022 Fund	355,015
Common Rev Bond 2012 Fund	0
Common Rev Bond 2015 Fund	1,228,700
Common Rev Bond 2019 Fund	676,992
Common Rev Bond 2022 Fund	1,378,983
State Loan Debt Service	1,196,268
State Loan Reserve	0
Capital Lease Financing	0
Total	5,826,306

Capital Funds and North Marin 0

Total 10,019,899

Capital Funds and North Marin

Pipeline Facilities	0
Storage Facilities	0
Common Facilities	0
North Marin	0
Total	0

WT Subfunds

Water Management Planning	0
Watershed Planning/Restoration	1,504,670
Recycled Water & Local Supply	0
Water Conservation	2,263,032
Total	3,767,702

Total 10,019,899

10



MEMORANDUM

To: Board of Directors

Date: March 7, 2023

From: Tony Williams, General Manager *TW*

Subject: Oceana Marin and Sewer Services to Dillon Beach Properties

t:\gmbod_miac_2023\3-7-23_meeting\om_update\3-7-23_bod_memo_ocean_marin_update.docx

RECOMMENDED ACTION: Information Only

FINANCIAL IMPACT: To Be Determined

In 1995, 2013, and recently in October 2022, the District sent formal letters to the Director of the Marin County Community Development Agency (CDA; formerly known by other titles) regarding new sewer connections to the Oceana Marin system. These letters have consistently expressed the District's position regarding expansion of existing sewer services and noted that other than select parcels located on Ocean View Avenue which front an existing sewer main, NMWD would not consider any new annexations to the Improvement District. The District has been providing sewer collection and treatment to OM since 1973 through the creation of three separate Improvement Districts to fund the sewer infrastructure.

As previously reported to the Board, CDA received a state grant in 2021 to conduct a wastewater feasibility study of the Dillon Beach Village area, and, in late July 2022, District staff received a draft study report from the County's consultant, Questa Engineering Corporation. After receiving comments from District staff, a final report was completed in October 2022 and a community meeting was held by the County in late January 2023 to review the report findings.

The properties in the Dillon Beach Village area are dependent on individual onsite septic systems, many predating modern codes and practices, and the study report evaluated alternatives for improving wastewater treatment and disposal for the area and identifies four main alternatives for improving the existing conditions at Dillon Beach Village as summarized below:

- Alternative 1 Maintain Status Quo (No project)
- Alternative 2 Upgrades to Existing Systems and Creation of a Maintenance District
- Alternative 3 Connection to Oceana Marin
- Alternative 4 Hybrid Solution

Alternative 3 which is associated with the OM system as two sub-alternatives. Specifically, Alternative 3a is connection of the entire study area to OM (190 equivalent single-family dwellings), while Alternative 3b consists of connecting only the "Village Area" to OM for a total of

152 equivalent single-family dwellings. Alternative 4, the Hybrid solution, includes connection of 75 developed parcels, the Dillon Beach Resort café, rental cottages and beach restroom to OM. A copy of the report's executive summary is provided as Attachment 1. More information regarding the study is provided on the County's website:

<https://www.marincounty.org/depts/cd/divisions/environmental-health-services/dillon-beach-study>

As indicated in the report's Executive Summary, Alternatives 3b and 3a are the overall highest-ranking alternatives. Several meetings have been held by the County with District staff participation during the Report development and subsequent to the completion of the report. Most recently on February 22, 2023, the County coordinated a meeting with senior CDA staff; the Acting Director of CDA, Sara Jones; County Supervisor Rodoni; Jason Fried, LAFCo Executive Officer; the County's consultant Norman Hantzsche of Questa Engineering; and District representatives Eric Miller, Tony Williams, and Director Fraites.

West Marin Services Ad Hoc Committee: As we navigate through the potential impacts of this study on the District's Oceana Marin system, staff have discussed the possible establishment of an Ad Hoc Committee, made up of two Board members, to meet and discuss with staff on future updates as well as participation in future coordination meetings with the County. The Ad Hoc Committee could also be involved in discussions regarding other known development projects in West Marin which may impact the District. Staff is proposing the West Marin Services Ad Hoc Committee meet periodically, initially in late March or April, and as necessary during the calendar year. As more details are understood about potential impacts to Oceana Marin specifically and the West Marin services overall, the Committee can provide feedback to the other Board members at future scheduled Board meeting.

ATTACHMENT:

1. Executive Summary - Dillon Beach Village Wastewater Feasibility Study (Final)

SECTION 2: EXECUTIVE SUMMARY

In October 2021 the County of Marin contracted with Questa Engineering Corporation to conduct a wastewater feasibility study for the Dillon Beach Village area. This followed a community outreach and engagement process organized by Marin County Community Development Agency (CDA), in which participating residents identified aging septic systems and domestic wastewater management as an issue of significant local concern. The Village encompasses approximately 150 parcels, primarily single family residences with a small number of commercial occupancies. Properties in the Village are dependent on individual onsite septic systems for sewage disposal, many pre-dating modern codes and practices. The purpose of the feasibility study was to identify, evaluate and compare various alternatives for improving wastewater treatment and disposal in the community, including options ranging from onsite septic system upgrades to community sewerage facilities.

STUDY AREA CHARACTERISTICS

Dillon Beach is located in northwest Marin County adjacent to Bodega Bay, approximately four miles west of Highway 1 and the town of Tomales. The community is comprised of a Village core with small-scale commercial uses and a neighborhood of tightly clustered beach cottages and homes. The Village is bordered on the east and north by the Oceana Marin development, which consists of about 225 larger, modern homes served by a community wastewater treatment system. Lawson's Landing campground and expansive dune lands lie to the south.

For the purposes of this study, the Dillon Beach Village Study Area encompasses the following properties, all of which are served by onsite wastewater treatment systems (OWTS): (a) Village area which includes 127 residences and several commercial properties; (b) Bay Road-Cliff Street Extension which includes a separate cluster of 16 houses located south of Dillon Creek; and (c) Oceana Drive which includes a group of six (6) larger lot, residential properties within the Oceana Marin development.

Watershed. Dillon Beach Village lies at the base of the Dillon Creek watershed, which encompasses an area of approximately 430 acres, including: (a) grazing lands; (b) a portion of the developed Village area; and (c) a small area of undeveloped, well-vegetated sand dunes on the south side of the creek. There is a freshwater aquifer at the mouth of Dillon Creek formed from an accumulation of beach sands and alluvial stream deposits, overlain and bounded by aeolian (dune) sands. This aquifer is estimated to have a storage capacity of approximately 10 million gallons.

Water Supply. The community water supply is provided by the Coast Springs Water System (owned and operated by California Water Services Company). The system includes a series of bedrock wells and springs located in the northeastern portion of the Dillon Creek watershed and a shallow well (Well No. 4") that draws from alluvial deposits adjacent to Dillon Creek. Well No. 4 has historically provided the majority of the water supply for the Coast Springs Water System. Coast Springs is required to treat all raw water to meet with surface water treatment standards.

Geology, Soils and Groundwater. Regional geologic maps indicate the Dillon Beach Village area is underlain by Pleistocene-aged marine terrace deposits (dune sands) with sandstone of the Franciscan Complex mapped in the surrounding areas to the north and east, and beach sand and a large expanse of dune deposits to the west and south. According to the Soil Survey of Marin County, the soils in the Dillon Beach Village region, including properties along Oceana

Drive, are very deep, sands of the Sirdrak Series. Sand and loamy sand are the most common soil textures in the top 4 to 5 feet, while sands predominate below that level. Several dozen soil borings completed in conjunction with septic system upgrade projects confirm unsaturated sandy soil depths ranging from about 10 to 30 feet throughout the Village area, with groundwater generally observed near the contact with underlying clay and sandstone bedrock. Groundwater depths and flow directions determined from numerous soil borings indicate a little over half of the Village area (east side) drains toward Dillon Creek and the alluvial aquifer, and the remainder drains westerly and northwesterly toward the beach and ocean.

Water Quality. Water quality issues of primary interest and concern in Dillon Beach are those affecting recreational activities, drinking water supplies and public health in general. This includes: (a) ocean water; (b) Dillon Creek; and (c) Dillon Creek groundwater basin.

Routine bacteriological testing of ocean waters at Dillon Beach conducted by Marin County EHS over the past 20 years shows a consistent record of compliance with State standards.

The outflow from Dillon Creek creates surface water flow across the beach during normal winter rainfall conditions. With declining outflow during spring and summer, the stream is reduced to a semi-stagnant “pond” or pooling area just west of the box culvert on Cliff Street. Limited (once or twice a year) spot sampling of the “pond” in the past few years has shown high bacteriological readings (total coliform and fecal indicator bacteria), in excess of water contact recreation standards. The source appears most likely (although not confirmed) to be related to dogs and other animal activity.

Groundwater quality in the Dillon Creek alluvial aquifer is monitored regularly at Coast Springs Well No. 4 and occasionally at a second well (“Cline”/Dillon Beach well). The sampling data indicate conformance with primary drinking water quality standards, i.e., constituents that can have health effects. Although not found in excess of the drinking water maximum contaminant level, the one principal groundwater quality constituent of potential concern is nitrate. Monitoring data for Well No. 4 shows seasonal fluctuations in nitrate concentrations, commonly reaching elevated levels significantly above background during the dry season. This is indicative of influence from land use activities in the Dillon Creek watershed, the likely sources being septic systems in the adjacent Village area and possibly animal grazing in the upper watershed area.

EXISTING ONSITE WASTEWATER PRACTICES

Dillon Beach Village was developed in the early 1900s, long before there were any codes or regulations pertaining to onsite sewage disposal systems. Cesspools and seepage pits formed by redwood boxes were a common practice. Given the state of knowledge regarding sewage treatment and disposal at the time, the presence of deep well drained sandy soils, and the limited seasonal occupancy the homes, redwood cesspools and seepage boxes served their purpose adequately for many years.

Since the 1950s, new construction, as well as replacement of many of the original cesspools and seepage boxes, has included more modern septic tanks and separate drainfields of some type. An unknown number of redwood cesspools are believed to still exist, as they are discovered from time-to-time in connection with septic system and building improvements documented in County files.

Parcel information on file with Marin County Environmental Health Services (EHS) indicates about 60 to 70 septic system upgrades have been completed in Dillon Beach Village over the past 35 to 40 years, most of them for replacement of cesspools and other older, non-conforming installations. The replacement systems commonly include new 1,200-gallon septic tanks, documentation of soils and groundwater depth, and gravity or pump-up leachfields, in accordance with requirements for Class II Repairs under the EHS “Residential Improvement Policy for Septic Systems”. Nearly all OWTS upgrades include waivers or variances to standard setback distances, e.g., from property lines, buildings, utilities, driveways, etc. Based on review of EHS files, the current status of OWTS in Dillon Beach Village can be categorized approximately as follows:

- Class I and II (new and repair permits): 45%
- Class III (permitted under former code, prior to 1984): 10%
- Class IV (undocumented, no permit records on file): 45%

SUITABILITY, SITING CONSTRAINTS AND WATER QUALITY IMPACTS

Soils and Groundwater. Deep well drained sand and loamy sand soils underlie nearly the full extent of Dillon Beach Village area, providing generally 10 to 20 feet or more of unsaturated soil depth for absorption and dispersal of septic tank effluent. Percolation rates are fast, which is helpful for drainfield operation, but limiting from the standpoint of filtering and removing contaminants contained in percolating effluent.

Proximity to Water Courses and Wells. All septic systems meet the standard minimum 100-foot lateral setback requirement from Dillon Creek and 150-foot setback from the Coast Springs public water supply well (No. 4) located on the south side of the Village. However, there is a potential question as to whether or not a 400-foot setback to Dillon Creek may be required under the 2012 State Water Board OWTS Policy. This is because Dillon Creek is the main source of recharge for Well No. 4, which is classified as “under the direct influence of surface water” and consequently could be considered a “surface water intake” for purposes of applying setback requirements.

Site Limitations and Setbacks. A major constraint for OWTS is the extremely limited space on individual parcels (averaging less than 2,500 ft² in size) to accommodate code-compliant septic tanks and disposal fields. This results in encroachment within standard setback distances from buildings, property lines, paved areas and utilities on nearly every site.

Cumulative Impacts on Groundwater. Separate from standard siting and design criteria, another consideration is the cumulative effect of the large number of septic systems in a relatively small area. This is an issue especially on the eastern side of the Village, where septic system discharges contribute to the local recharge of groundwater affecting the Coast Springs water supply wells and alluvial aquifer of Dillon Creek. Water sampling data, along with nitrate loading calculations, indicate the high density of septic systems combined with the rapidly permeable sandy soils results in elevated concentrations of nitrate in the groundwater adjacent to Dillon Creek. Although monitoring data shows that drinking water nitrate limits have not yet been exceeded at the wells, future increases in occupancy and wastewater generation in the Village could pose a threat to the community drinking water supply.

HOMEOWNER QUESTIONNAIRE SURVEY

An anonymous and voluntary homeowner questionnaire survey was conducted in spring of 2022 to solicit community knowledge, concerns and opinions on existing wastewater practices in Dillon Beach Village and potential long-term management options. Survey forms were distributed by mail to approximately 160 property owners, with completed forms returned from about one-third of the community (52 responses). The following highlight some of the key information from the survey.

- **OWTS Status.** Of those completing the survey about 80% were owners of properties having a relatively “modern” septic system including a septic tank and leachfield, indicating the responses were mostly from those having documented Class II or Class III systems.
- **Septic Tank Pumping.** Reported septic tank maintenance pumping frequency was fairly typical, with the majority indicating pump-outs every 2 to 10 years, a few indicating annual or greater frequency, and a few indicating “never”.
- **Graywater.** There is currently very little diversion of graywater (laundry, showers, hand sinks) for irrigation or separate dispersal; about 40% of respondents indicated an interest in pursuing this option.
- **OWTS Operational Concerns.** A very high percentage of respondents (85% to 90%) indicated low level of concern about the functioning, code compliance or impacts of their OWTS.
- **Water Quality Impact Concerns.** Regarding septic system impacts on local surface water and groundwater quality, about half of the respondents indicated a low level of concern, one-third a moderate level of concern, and about 10% to 20% a moderately-high to high level of concern. The indicated level of concern about other water quality factors in the Dillon Creek watershed (agriculture and street runoff) and other septic systems in general was similar.
- **Wastewater Management Approach.** Preferences among the various wastewater management approaches is summarized below, showing the percentage of respondents indicating a particular approach as their highest level of interest:
 - No preference indicated: 35%
 - Status Quo: 13%
 - OWTS Upgrade & Management 6%
 - Community Sewerage 21%
 - Hybrid – Combination of Above 25%
- **Comments.** Other comments added at the end of the questionnaire included more specific information regarding OWTS components (e.g., tank/leach field size), emphasis on how well their system has operated for many years, caution against trying to fix what isn't broken, concerns about impacts from rentals and commercial properties, uncertainties about the functioning of the Oceana Marin wastewater system, cost impacts to homeowners, and appreciation for the survey and overall effort to study OWTS issues.

PROJECT ALTERNATIVES

Based on review of existing wastewater practices, environmental conditions, and potential opportunities and means for community sewerage, the following community wastewater alternatives for Dillon Beach Village were formulated and evaluated in this study.

Alternative 1 - No project: The "No Project" alternative would maintain the status quo, where individual property owners would remain responsible for ongoing maintenance, repair, upgrading and replacement of existing OWTS in accordance with current practices and Marin County onsite sewage disposal regulations and policies. There would be no set schedule for upgrading any existing septic systems, and no mandatory inspection or maintenance work.

Alternative 2 – OWTS Upgrades and Management Program: This alternative would provide for systematic evaluation and as needed upgrade of onsite systems to be done in conjunction with the formation of an OWTS maintenance/management “zone” or district. The program would be operated under the authority of a wastewater maintenance district, County Service Area or similar public entity covering the boundaries of the selected service area. Financing of individual septic system improvements would be accomplished with grant assistance to bring all currently developed properties into conformance with minimum acceptable “repair” standards. Two options were identified under this alternative, which differ according to the target level of OWTS upgrade and treatment requirements to be achieved as follows:

- **Alternative 2a:** The objective of this alternative would be to evaluate and upgrade all OWTS to meet Marin County Class II septic system repair criteria in a manner generally consistent with the repair and replacement practices that have been followed over the past 25 to 30 years.
- **Alternative 2b:** This alternative would follow the same approach as **Alternative 2a**, but with the additional step of designating the east side of the Village as an advanced water quality protection management sub-area, due to its close proximity and recharge contribution to the Dillon Creek water supply aquifer. It would include requirements for supplemental treatment for nitrogen removal to be incorporated for existing and replacement OWTS in the designated management area.

Alternative 3 – Community Sewerage Connection to Oceana Marin: This alternative provides for the installation of sanitary sewers and connection to the neighboring Oceana Marin Wastewater System, which is operated by North Marin Water District (NMWD). Based on a review of alternative wastewater collection methods, it was determined that conventional gravity sewers would be the preferred and least cost option. Two variations of this alternative were defined and evaluated:

- **Alternative 3a** would extend sewer service to all developed residential and commercial properties in the Study Area, including the Village, Bay Dr/Cliff St Extension, and properties using OWTS on Oceana Dr.
- **Alternative 3b** would extend sewer service to the Village area only, including all residential and commercial properties with the exception of the RV Park, which is in the process of implementing an advanced OWTS. Areas not included in the sewer service area would remain under the status quo.

In **Alternatives 3a** and **3b**, the collection system would consist of conventional gravity sewers leading to a central sanitary lift station, tentatively proposed to be located adjacent to the beach restroom at the foot of Beach Avenue. A 4" diameter sewer force main would convey the sewage back uphill through the Village for connection to the existing Oceana Marin sewer system at the manhole located near the intersection of Oceana Dr and North Street. From there, the sewage would combine with all other sewage flows in the Oceana Marin system, to be pumped uphill to the two wastewater treatment ponds on the hilltop area above the Oceana Marin development. Through the payment of connection fees these alternatives would provide funding to implement high and medium priority capital improvements to the Oceana Marin Wastewater System for improved reliability and redundancy of the main lift station, force main, and wastewater ponds. Expansion of existing Oceana Marin leachfield capacity is also included as a required element of these alternatives.

Alternative 4 – Hybrid - Village Sewerage and OWTS Upgrades/Management: This alternative consists of a combination of Alternatives 1, 2a and 3b. It would: (a) prioritize the east side of the Village (plus the beach restroom) for community sewerage and connection to the Oceana Marin Wastewater System; (b) establish an OWTS upgrade and management program for the west side of the Village; and (c) leave Bay Dr, Cliff St Extension, and Oceana Drive areas under the status quo. It would also include connection fees for implementation of recommended capital improvements to the Oceana Marin system, along with leachfield capacity expansion as indicated for **Alternatives 3a** and **3b**.

Table 2-1 summarizes how the each of the different neighborhoods in the Study Area would be addressed under each alternative.

Table 2-1. Summary of Project Alternatives

Alternative	Service Sub-Areas			
	Village		Bay Dr & Cliff St Ext.	Oceana Dr
	East	West		
Alternative 1: No Project	Status Quo	Status Quo	Status Quo	Status Quo
Alternative 2a: OWTS Mgt	OWTS Mgt	OWTS Mgt	OWTS Mgt	OWTS Mgt
Alternative 2b: OWTS Mgt w/N Mitigation	OWTS Mgt w/N Mitigation	OWTS Mgt	OWTS Mgt	OWTS Mgt w/N Mitigation
Alternative 3a Full Sewerage	Sewerage	Sewerage	Sewerage	Sewerage
Alternative 3b: Village Sewerage	Sewerage	Sewerage	Status Quo	Status Quo
Alternative 4: Hybrid: Village-East Sewerage Village-West OWTS Mgt	Sewerage	OWTS Mgt	Status Quo	Status Quo

ESTIMATED WASTEWATER FLOWS

Estimated wastewater flows were developed for the community sewerage alternatives (**3a**, **3b** and **4**) to evaluate capacity and potential impacts on the Oceana Marin wastewater collection, transmission, treatment and disposal facilities. Factors considered in estimating flows for the Dillon Beach Village area included the following:

- **Existing Oceana Marin wastewater system flows and projections.** The 2015 Master Plan Update report the Oceana Marin Wastewater System by Nute Engineering projected an average dry weather unit flow 70 gpd per residence for future build-out of the existing Oceana Marin service area, or 21,000 gpd for 300 projected connections.
- **Infiltration and Inflow.** Due to the deep well drained sands and lack of shallow groundwater, infiltration and inflow of extraneous water into a gravity sewer system in the Village area can be considered negligible.
- **Historical water use information for Dillon Beach Village residences.** Water use data for Dillon Beach Village properties for the 5-year period (2016-2020) indicates average residential water usage of less than 40 gpd during the winter season, increasing to 45 to 55 gpd/residence during the peak summer season.
- **Design flows and historical water use for commercial facilities.** Water use data for 2016-2020 for commercial wastewater facilities (Dillon Beach Resort) were reviewed to develop preliminary estimates of average dry weather flows for the Store-deli-café, RV Park, rental cabins and Beach Restrooms.
- **Marshall Community Wastewater System.** Recent wastewater flow data for the Marshall Community Wastewater System (~ 60 connections) were reviewed to provide a nearby point of comparison; data indicate an average dry weather and wet flows of 94 gpd and 87 gpd, respectively.

Using the above information, **Table 2-2** presents the estimated wastewater flows for the different levels of community sewerage under **Alternatives 3a, 3b** and **4**.

Table 2-2. Wastewater Flow Estimates – Community Sewerage
(gallons per day, average dry weather flow)

Wastewater Source	Unit Flow ¹ (gpd)	Alternative 3a Entire Study Area		Alternative 3b Village Only		Alternative 4 Hybrid – East Village	
		No. of Units	Total Flow to Sewers	No. of Units	Total Flow to Sewers	No. of Units	Total Flow to Sewers
Village Residential – East	75	71	5,325	71	5,325	71	5,325
Village Residential – West	75	56	4,200	56	4,200	56	0
Bay Rd-Cliff St Extension	75	16	1,200	16	0	16	0
Oceana Dr	75	6	450	6	0	6	0
Commercial							
Beach Restroom (per use)	2	500	1,000	500	1,000	500	1,000
Rental Cottages	50	3	150	3	150	3	150
RV Park	50	25	1,250	25	0	25	0
Store-Deli-Café (all uses)	650	1	650	1	650	1	650
Post Office (all uses)	25	1	25	1	25		25
Total Estimated Flow, gpd			14,250		11,350		7,150

¹ Per dwelling, except as noted.

The total combined wastewater flows for the Oceana Marin Wastewater System at build-out under **Alternatives 3a, 3b and 4** would be:

- **Alternative 3a:** Oceana Marin at 21,000 gpd + 14,250 gpd = 35,250 gpd
- **Alternative 3b:** Oceana Marin at 21,000 gpd + 11,350 gpd = 32,350 gpd
- **Alternative 4:** Oceana Marin at 21,000 gpd + 7,150 gpd = 28,150 gpd

COST ESTIMATES

Estimated capital cost and annual operation and maintenance (O&M) cost for the various wastewater project alternatives are summarized in **Table 2-3**. Total project costs are not estimated for the No Project Alternative; however, the costs for an individual property requiring OWTS upgrade can be approximated by the costs indicated for **Alternatives 2a and 2b**.

- **Capital Costs.** Capital costs include estimates for construction, 15% contingency allowance, and 30% allowance for planning, engineering, permitting and project administration. Costs for OWTS upgrades were based on a range of costs for each category of OWTS (Class I through IV) combined with the estimated number of systems in each category. Costs for community sewerage were based on preliminary layout of sewers, pump stations and other facilities, and engineering estimates of unit costs for each item; they also include current Oceana Marin connection fees of \$30,000 per residence, which would be available for necessary capital improvements to wastewater system. The average cost per residential parcel or “ESD” (which stands for “equivalent single-family dwelling”) is calculated and shown for each alternative. The cost for commercial connections would be a multiple number of ESDs based on wastewater flow comparison with that from a single family residence.
- **Operation and Maintenance.** Estimated costs for OWTS upgrades and management were estimated based on equivalence to the typical annual costs incurred by properties in Marin County for OWTS under an EHS-issued operating permit. This includes an annual administrative fee, system inspection/servicing, and septic tank pump-outs. For community sewerage alternatives, estimated annual cost of \$1,296 was based on the existing annual NMWD sewer fee for properties connected to the Oceana Marin Wastewater System. This cost is subject to adjustment by NMWD from year-top-year, and a detailed fee study would be conducted to determine whether or not sewer extension to serve Dillon Beach Village would result in an increase or decrease in annual fees.

COMPARATIVE ANALYSIS OF ALTERNATIVES

A comparative analysis was made of the various alternatives for the Dillon Beach Village study area considering such factors as regulatory compliance, environmental impacts, reliability, energy demand, land use, and costs. Some of the factors are represented by objective data (e.g., cost), while others required exercise of professional judgment by the consultant team based on more subjective information.

The results are displayed in **Table 2-3**, showing **Alternative 3b** to have the highest ranking, with **Alternative 3a** the next highest. These would be considered the “apparent best”

alternatives; they both include community sewerage for a majority of the Village area. This ranking is for informational purposes and does not represent the selection of a project.

Table 2-3. Summary of Estimated Project Costs

Project Alternative	Capital Costs (\$)		Annual O&M Costs (\$)
	Total Cost	Ave Cost Per Parcel – ESD*	Per Parcel – ESD*
1 - No Project	N/A	\$0 - \$60,000+	\$200 - \$1,000+
2a - OWTS Upgrades & Management Program	\$ 5,882,650	\$ 33,615	\$900
2b - OWTS Upgrades & Management Program w/Nitrogen Removal	\$ 7,742,275	\$ 44,241	\$900 - \$1,200
3a - Community Sewerage to Oceana Marin, Entire Study Area	\$ 10,337,425	\$ 54,407	\$1,296
3b - Community Sewerage to Oceana Marin, Village Area	\$ 7,813,000	\$ 51,401	\$1,296
4 - Hybrid – Partial Village Sewerage, Partial OWTS Management Program	\$ 7,178,775	\$ 46,315	\$900 - \$1,296

* ESD = equivalent single family dwelling

Table 2-4. Ranking of Project Alternatives

Comparison Factor	Alternative 1	Alternative 2 OWTS Upgrade and Management Program		Alternative 3 Community Sewerage to Oceana Marin		Alternative 4
	No Project Status Quo	2a Class II Repairs	2b w/ Nitrogen Removal Systems	3a Entire Study Area	3b Village Area Only	-- Hybrid-- East Village Sewer; Remainder OWTS
Regulatory Compliance	1	2	3	6	5	4
Environmental Impacts	1	2	3	5	6	4
Reliability	1	2	3	6	6	4
Energy Demand	6	5	4	1	2	3
Land Use	3	2	1	6	5	4
Capital Cost	5*	6	4	1	2	3
O&M Costs	5*	6	4	1	2	3
TOTAL	22	25	22	26	28	25
RANKING	5	3	5	2	1	3

*Costs for Alternative 1 are not known, but are estimated to be generally similar to Alternative 2 on average, but with larger uncertainty; costs for individual property owners would vary widely depending on individual circumstances.

PUBLIC MANAGEMENT ALTERNATIVES

The implementation of a community wastewater project in Dillon Beach will require the formation of or annexation to a public district that has suitable powers and authority for operation and management of public sewers or oversight of onsite wastewater treatment systems. This would be required as a matter of public policy and also to enable the community to obtain and utilize various forms of public financial assistance available from the State and Federal government.

The following briefly summarizes the apparent best or logical management/organizational options for each alternative.

Alternative 1 - Status Quo. No change or action required. Onsite wastewater treatment systems continue to be managed individually and regulated by Marin County Environmental Health Services.

Alternative 2a – OWTS Upgrades and Management Program. Formation of an OWTS Zone under the governance of the Marin County Board of Supervisors, administered through Environmental Health Services.

Alternative 2b – OWTS Upgrade Program with Supplemental Nitrogen Removal Systems. Formation of an OWTS Zone under the governance of the Marin County Board of Supervisors, administered through Environmental Health Services.

Alternative 3a – Community Sewerage and Connection to Oceana Marin Wastewater System. Annexation of the entire Study Area to NMWD for design, construction and management of sewer collection, treatment and disposal.

Alternative 3b – Community Sewerage and Connection to Oceana Marin Wastewater System. Annexation of the entire Village area to NMWD for design, construction and management of sewer collection, treatment and disposal.

Alternative 4 – Hybrid: Village Eastside Sewerage, Village Westside OWTS Upgrade Program
Two options:

- Annexation of the Village east side for sewerage by NMWD, and formation of a County-governed OWTS Zone for the remaining portion (per **Alternative 2a**).
- or
- Formation of an OWTS Zone under the governance of the Marin County Board of Supervisors for the entire Village, with management authority over both sewer collection and onsite systems. Outside service agreement with NMWD for wastewater conveyance, treatment and disposal for the east side (sewered) portion of the Village.

North Marin Water District has indicated that they see the potential project as an opportunity to revise its role in providing sewer services to a remote portion of the County in light of its primary mission to provide water. NMWD is open to discussions with the County, other established Sewer Agencies, and/or LAFCO to review alternative governance for his area and perhaps beyond (e.g., Tomales and Marshall, etc.).

11

North Bay Watershed Association

Board Meeting - Agenda

March 3, 2023 | 9:30 – 11:30 a.m.

THIS MEETING WILL BE HELD VIRTUALLY VIA REMOTE CONFERENCING SERVICE –

NO PHYSICAL MEETING LOCATION

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>Jean Mariani, 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>Jean Mariani, Chair</i> Treasure's Reports <i>Jean Mariani, Chair</i>	<i>Approve/ Review</i>
9:45	Guest Presentation— Status of Federal Infrastructure and State Water Program Funding <i>Sheri Lasick, Senior Funding Specialist, West Yost</i> Sheri will provide an overview status of Federal and State funding, designated funding agencies, general range of priorities for water services agencies, districts and municipalities, and answer questions on successful positioning and preparation of funding applications.	

10:10	<p>Executive Director Report</p> <p><i>Chris Choo, Deputy Director</i></p> <p>Chris will provide some general updates on NBWA activities since the February 3 Board meeting, including active projects, recent meetings, regional programs and initiatives, communications, and committees.</p> <p>Chris will outline ideas for next and future Board meeting topics and solicit feedback.</p>	<p><i>ED updates, Board questions, and input</i></p>
10:30	<p>Board Information Exchange and Drought Updates</p> <p><i>Members</i></p> <p>Members will highlight issues and share items of interest.</p>	<p><i>N/A</i></p>
11:30	<p>Announcements/Adjourn</p> <p>Next Board Meeting: April 7, 2023</p>	<p><i>N/A</i></p>

12

DISBURSEMENTS - DATED FEBRUARY 23, 2023

Date Prepared 2/21/23

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:

<u>Seq</u>	<u>Payable To</u>	<u>For</u>	<u>Amount</u>
P/R*	Employees	Net Payroll PPE 2/15/23 & Final Payout	\$165,730.21
90566*	Internal Revenue Service	Federal & FICA Taxes PPE 2/15/23 & Final Payout	77,419.32
90567*	State of California	State Taxes & SDI PPE 2/15/23 & Final Payout	15,930.29
90568*	CalPERS	Pension Contribution PPE 2/15/23	43,989.94
EFT*	US Bank	January Bank Analysis Charge (Lockbox \$912 & Other \$360 Less Interest \$67)	1,204.96
1	100 Wood Hollow Drive Owner	March Wood Hollow Rent	28,294.75
2	All Star Rents	Post Hole Digger Rental (1 Day)	143.06
3	Amazon	Office Supplies, Computer Supplies (\$1,212), Dehumidier, Service Award, Lab Coat, Batteries for Chlorine Detectors (STP) & Auto Mechanic Reference Books (2)	2,398.10
4	Bank of Marin	Bank of Marin Loan Principal & Interest (Pyemt# 136 of 240) Aqueduct Energy Efficiency Project	46,066.67
5	Buck Institute Research on Aging	Annual Quarterly Increase for Lab Department (2/16/23-5/15/23)	806.76
6	California Water Service	Water Service (O.M.)	32.06
7	Caltest Analytical Laboratory	Lab Testing	105.80
8	Chase	Chase Loan Payment-AMI Project (#10 of 30)	327,814.75
9	Clark, Robert E.	Exp Reimb: Safety Boots	173.59
10	Comcast	February Internet (Buck Institute)	356.55
11	Core & Main	Clamps (2), Couplings (6) (\$3,288), Reducers (10), Gate Valves (4) & T-Caps (40)	4,040.00
12	Cummings Trucking	Rock (6) (94 yds) (\$1,470) & Sand Deliveries (2) (31 yds) (\$700)	2,170.00

Seq	Payable To	For	Amount
13	Diesel Direct West	Diesel (204 gals) (\$1,029) & Gasoline (985 gals) (\$4,312)	5,341.30
14	D.L. Falk Construction, Inc.	Prog Pymt#7: Perform NMWD Admin & Lab Building Upgrades (Balance Remaining on Contract \$8,959,775)	445,567.07
15	D.L. Falk Construction Escrow Acct	5% Retainage-Pymt#7 NMWD Admin Bldg & Laboratory Upgrade	23,450.90
16	Fiserv/Bastogne Inc.	Return Payment-Unable to Locate Account	622.19
17	Fishman Supply Co	Rain Gear (STP)	458.09
18	Fisher Scientific	Hypochloride Purification, Safety Gloves & Vial Shell (Lab)	408.30
19	Roy Foster	Exp Reimb: Safety Boots	192.71
20	Frontier Communications	February Internet (STP)	640.00
21	Grainger	Miscellaneous Maintenance Tools & Supplies	168.60
22	V.W. Housen & Associates	Prog Pymt#2: (\$6,504) & Prog Pymt#3 (\$3,634) Update District's Oceana Marin Sewer System Management Plan (Balance Remaining on Contract \$1,612)	10,138.00
23	InfoSend, Inc.	January Processing Fee for Water Bills (\$1,353), Postage (\$4,004) & January Monthly Support Fee	6,193.30
24	KB Home North Bay	Refund Over Payment on Closed Account	129.19
25	Lincoln Life Employer Serv	Deferred Compensation 2/15/23 PPE	30,032.50
26	McLellan Co, WK	Misc Paving	11,640.95
27	Minuteman Press	Recycled Water Decals (500)	1,324.05
28	Nationwide Retirement Solution	Deferred Compensation 2/15/23 PPE	2,035.00
29	New Pig Corporation	Neoprene Gloves (48) (STP)	362.33
30	ODP Business Solutions, LLC	Miscellaneous Office Supplies	243.55
31	Parkinson Accounting Systems	January Accounting Software Support	975.00
32	Point Reyes Prop Mgmt Assn	February Property Management HOA Fees (25 Giacomini Rd)	75.05

Seq	Payable To	For	Amount
33	Six Robblees' Inc.	Service Parts (Stock)	245.15
34	Skewes-Cox, Amy	Prog Pymt#3: Provide Environmental/CEQA Support-Water Supply Enhancement (Balance Remaining on Contract \$18,641)	570.00
35	Snap-On Industrial	Fleet Repair Software	5,403.13
36	Soiland Co., Inc.	Asphalt Recycling (5 tons) & Rock (47 yds) (\$1,614)	1,714.82
37	Sonoma County Water Agency	January Contract Water	409,627.71
38	SPG Solar Facility XII, LLC	January Energy Delivered Under Solar Services Agreement	6,986.86
39	Thomas Scientific	Endo Broth (Lab)	121.78
40	Township Building Services	July 2022-January 2023 Janitorial Services (Yard & STP)	8,452.86
41	Vulcan Materials Company	Sand (15 yds)	977.25
42	VWR International LLC	Ammonium, Phosphorus & EDTA Titrant (Lab)	271.64
43	Watkins, Jeff	Exp Reimb: Automotive Service Excellence Tests	140.00
44	White & Prescott	Prog Pymt#21: AEEP Easement Support B2 Reach A (Balance Remaining on Contract \$38,540)	810.00
TOTAL DISBURSEMENTS			<u>\$1,691,996.09</u>

The foregoing payroll and accounts payable vouchers totaling \$1,691,996.09 are hereby approved and authorized for payment.

Audie Blue _____ 02/21/23 _____
Auditor-Controller Date

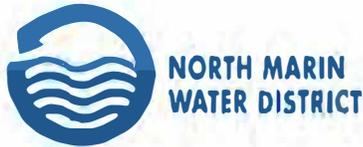
[Signature] _____ 2/21/2023 _____
General Manager Date

DISBURSEMENTS - DATED MARCH 3, 2023

Date Prepared 2/27/23

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
90568*	US Bank Card	Office Supplies, AT&T (Internet for PRTP & Gallagher Well #2), Zoom for Board Meetings, City of Novato-No Parking Signs (300), Food, Parking & Lodging Expenses for CSMFO Conference 1/31-2/1 (Sacramento), Food for Retirement Party, CA Dept of Tax & Fee Admin Sales and Use Tax, 1095C, 1099 NEC, 1096, W2 & W3 Forms, Food & Drinks for Gallagher Well #2 Dedication, Covid 19 Tests, EB Water Workshop & CA Irrigation Institute Conference Registration	\$5,889.65
1	ADTS, Inc.	Random Compliance Testing	69.50
2	American Family Life Ins	AFLAC February 2023 Employee Paid Benefit	3,522.45
3	AT&T	Leased Lines	68.08
4	Blue Earth Labs, LLC	Lab Analysis for Actiflow Filter Media (STP)	1,050.00
5	Bold & Polisner	January Legal Fees - General & NMWD Portion - Potter Valley FERC	1,620.00
6	CDW-Government, Inc.	Replacement System for Two Warehouse Scanners	553.43
7	Chung, Gloria	Novato "Washer Rebate" Program	100.00
8	Core & Main	Copper Gaskets (50)	103.08
9	Fishman Supply Co	Safety Supplies	261.44
10	Fisher Scientific	Sodium Hypochlorite (Lab)	15.74
11	Grainger	Miscellaneous Maintenance Tools & Supplies	871.29
12	Home Depot	Miscellaneous Maintenance Tools & Supplies	790.05
13	Idexx Laboratories	Media & Supplies for Coliform/RW Analysis	3,152.78



MEMORANDUM

To: Board of Directors

March 7, 2023

From: Julie Blue, Auditor-Controller *JB*
 Nancy Williamson, Accounting Supervisor *NW*

Subj: Auditor-Controller's Monthly Report of Investments for January 2023
t:\aclword\invest\23\investment report 0123.doc

RECOMMENDED ACTION: Information

FINANCIAL IMPACT: None

At month end the District's Investment Portfolio had an amortized cost value (i.e., cash balance) of \$42,532,799 and a market value of \$42,107,207. During January the cash balance decreased by \$497,731. The market value of securities held decreased \$425,483 during the month. The total unrestricted cash balance at month end was \$5,902,986 and 105.0% of the Designated Cash Reserves are funded.

At January 31, 2023, 59% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 13% in Time Certificates of Deposit, 24% in a Treasury Note, 2% in the Marin County Treasury, and 2% retained locally for operating purposes. The weighted average maturity of the portfolio was 86 days, compared to 92 days at the end of December. The LAIF interest rate for the month was 2.43%, compared to 2.17% the previous month. The weighted average Portfolio rate was 3.93%, compared to 3.75% for the prior month.

Investment Transactions for the month of January are listed below:

1/11/2023	LAIF	US Bank	\$200,000.00	Trsf from LAIF account
1/13/2023	CA State Treasurer	LAIF	\$118,377.58	10-12/22 Quarterly LAIF int credit
1/25/2023	LAIF	US Bank	\$800,000.00	Trsf from LAIF account
1/27/2023	US Bank	Austin Telco FCU	\$248,000.00	Purchase 4.9% TCD due 1/27/25

NORTH MARIN WATER DISTRICT
AUDITOR-CONTROLLER'S MONTHLY REPORT OF INVESTMENTS
January 31, 2023

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis ¹	1/31/2023 Market Value	Yield ²	% of Portfolio
LAIF	State of CA Treasury	AA-	Various	Open	\$25,226,177	\$24,756,699	2.43% ³	59%
Time Certificate of Deposit								
TCD	Enerbank	n/a	9/25/20	9/25/24	249,000	249,000	0.45%	1%
TCD	Sallie Mae Bank	n/a	8/18/21	8/18/23	249,000	249,000	0.35%	1%
TCD	UBS Bank	n/a	9/9/21	9/11/23	249,000	249,000	0.35%	1%
TCD	BMW Bank	n/a	8/20/21	2/20/24	249,000	249,000	0.45%	1%
TCD	Goldman Sachs Bank	n/a	1/19/22	1/19/24	249,000	249,000	0.75%	1%
TCD	Ally Bank	n/a	2/24/22	2/23/24	248,000	248,000	1.30%	1%
TCD	Greenstate Credit Union	n/a	3/15/22	3/15/24	249,000	249,000	1.60%	1%
TCD	Capital One Bank	n/a	4/7/22	4/8/24	247,000	247,000	2.20%	1%
TCD	Capital One Bank, N.A.	n/a	4/20/22	4/22/24	247,000	247,000	2.35%	1%
TCD	American Express Natl Bank	n/a	5/4/22	5/6/24	246,000	246,000	2.60%	1%
TCD	BMO Harris Bank	n/a	6/10/22	6/10/24	246,000	246,000	2.80%	1%
TCD	GE Credit Union	n/a	6/29/22	6/28/24	249,000	249,000	3.25%	1%
TCD	Beal Bank	n/a	7/13/22	7/10/24	246,000	246,000	3.05%	1%
TCD	Synchrony Bank	n/a	8/5/22	8/5/24	245,000	245,000	3.30%	1%
TCD	Discover Bank	n/a	9/13/22	9/13/24	245,000	245,000	3.40%	1%
TCD	Sharonview Credit Union	n/a	10/17/22	10/17/24	249,000	249,000	4.35%	1%
TCD	Popular Bank	n/a	11/9/22	11/7/24	247,000	247,000	4.75%	1%
TCD	Dannemora Fed Credit Union	n/a	11/10/22	11/10/23	249,000	249,000	4.70%	1%
TCD	Greenwood Credit Union	n/a	11/21/22	11/21/23	248,000	248,000	4.85%	1%
TCD	Alabama Credit Union	n/a	11/22/22	11/22/24	248,000	248,000	4.90%	1%
TCD	Community West Credit Union	n/a	12/19/22	1/19/24	249,000	249,000	4.78%	1%
TCD	Connexus Credit Union	n/a	12/20/22	12/20/23	248,000	248,000	5.00%	1%
TCD	Austin Telco Fed Credit Union	n/a	1/27/23	1/27/25	248,000	248,000	4.90%	1%
					\$5,699,000	\$5,699,000	2.65%	13%
US Treasury Notes								
Treas	Treasury Note	n/a	12/21/22	5/18/23	\$9,998,765	\$10,042,651	4.47%	24%
Other								
Agency	Marin Co Treasury	AAA	Various	Open	\$1,044,785	\$1,044,785	0.20%	2%
Other	Various	n/a	Various	Open	564,072	564,072	0.11%	2%
TOTAL IN PORTFOLIO					\$42,532,799	\$42,107,207	3.93%	100%

Weighted Average Maturity = **86 Days**

LAIF: State of California Local Agency Investment Fund.

TCD: Time Certificate of Deposit.

Treas: US Treasury Notes with maturity of 5 years or less.

Agency: STP State Revolving Fund Loan Reserve.

Other: Comprised of 5 accounts used for operating purposes. US Bank Operating Account, US Bank STP SRF Loan Account, US Bank FSA Payments Account, Bank of Marin AEEP Checking Account & NMWD Petty Cash Fund.

1 Original cost less repayment of principal and amortization of premium or discount.

2 Yield defined to be annualized interest earnings to maturity as a percentage of invested funds.

3 Earnings are calculated daily - this represents the average yield for the month ending January 31, 2023.

Interest Bearing Loans	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
Marin Country Club Loan	1/1/18	11/1/47	\$1,265,295	\$1,073,506	1.00%
Marin Municipal Water - AEEP	7/1/14	7/1/32	\$3,600,000	\$1,777,295	2.71%
Employee Housing Loan (1)	3/30/15	3/30/30	250,000	250,000	Contingent
TOTAL INTEREST BEARING LOANS			\$5,115,295	\$3,100,801	

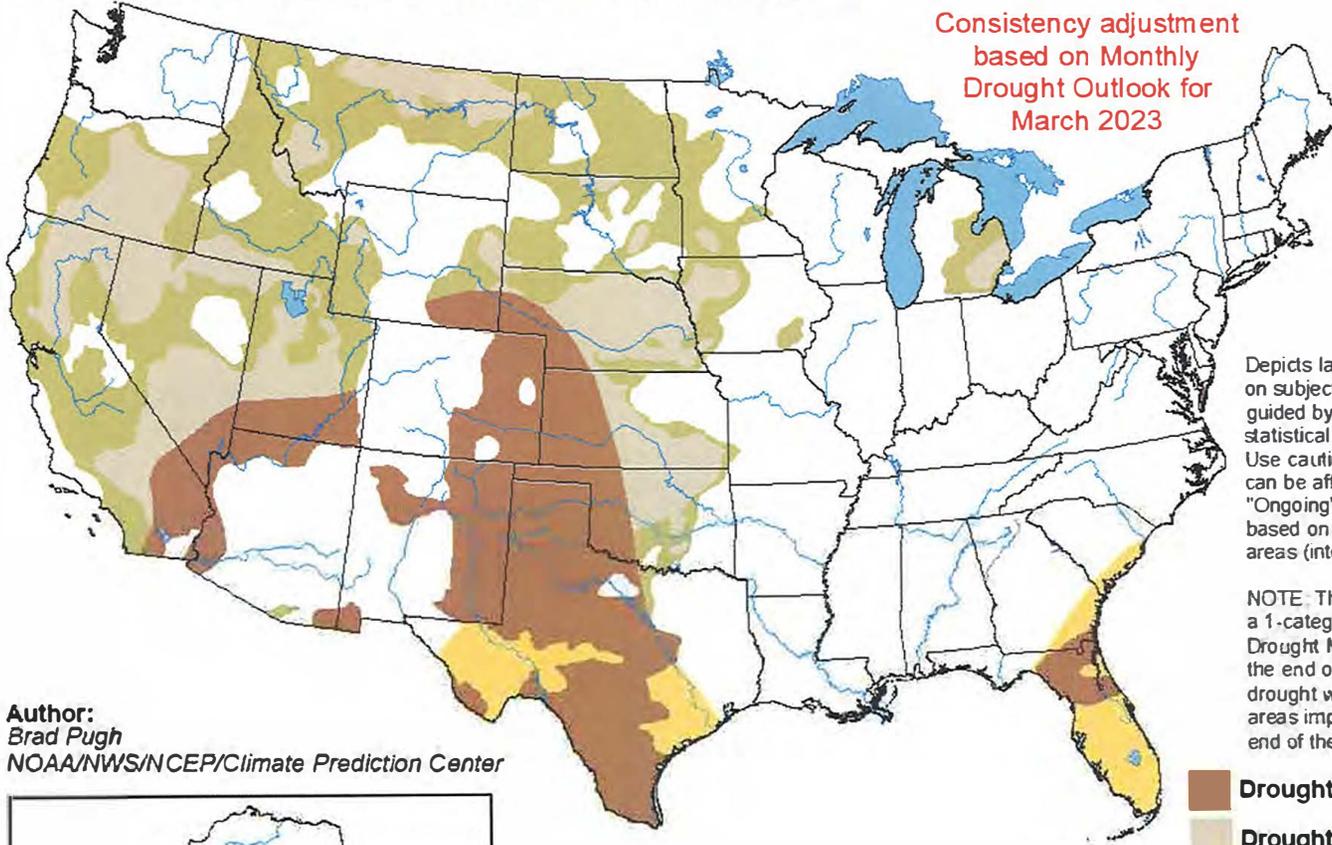
The District has the ability to meet the next six months of cash flow requirements.

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for March 1 - May 31, 2023
Released February 28, 2023

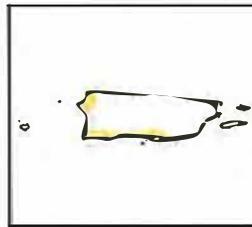
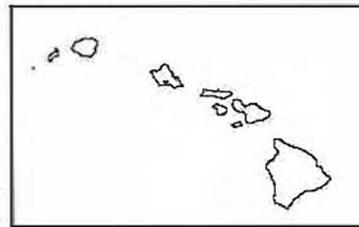
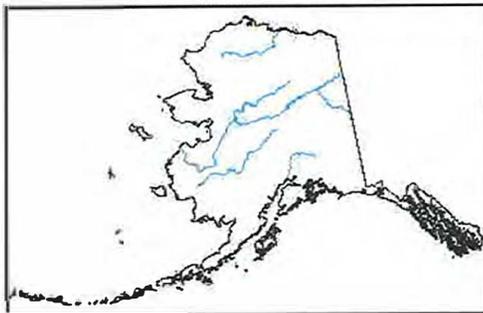
Consistency adjustment
based on Monthly
Drought Outlook for
March 2023



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:
Brad Pugh
NOAA/NWS/NCEP/Climate Prediction Center



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



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



Goal:
CLIMATE CHANGE

Assess risk and uncertainty of climate change, and develop and take actions that improve resiliency and sustainability.

Strategy: Develop and implement practices to understand and minimize vulnerability to climate change impacts.

Action Items

- Ensure alignment with the Board-approved Climate Adaptation Plan by establishing interdisciplinary climate resilience teams
- Support interagency partnership efforts addressing regional climate-resiliency planning and projects.
- Collaborate with partners to address sea level rise impacts to services in the Sonoma and Petaluma Baylands.
- Develop inclusive practices for Sonoma Water's climate mitigation and adaptation efforts considering the needs of under-resourced and under-represented communities.
- Continue legislation support and policy development at national, state, regional, and local levels.

"This Strategic Plan is a living document that will be monitored and adapted as needed."

~ Grant Davis, General Manager



Goal:
COMMUNITY ENGAGEMENT

Engage with the community to build understanding, trust, and support for projects and programs.

Strategy: Focus public outreach and engagement to increase understanding of Sonoma Water's needs and challenges for infrastructure investments.

Action Items

- Assess existing outreach strategies and activities to refine and implement a plan that better tells the infrastructure, natural hazard, and climate risk story.
- Continue to educate students and the public on topics that affect our water supply, flood control, and wastewater systems.

Strategy: Build collaborative partnerships, trust, and long-term relationships with the community through proactive communication and education.

Action Items

- Continue leveraging existing partnerships, advisory groups, and employees throughout the agency to educate the community about infrastructure vulnerabilities, needs, and improvements.
- Establish new and strengthen existing partnerships to bring unique perspectives from under-represented people to further diversify our community messengers.
- Continue partnerships with organizations such as Russian River Watershed Association and Sonoma Clean Power to provide education programs to students outside Sonoma Water's water supply service area.

Strategy: Communicate through inclusive channels, methods, and appropriate languages that reach all key audiences.

Action Items

- Identify key audiences (customers, public including historically underserved people, policymakers, and water contractors) and evaluate and update current communication tools and messages.
- Identify technical experts from each division who will assist in developing outreach material and ensure that communication strategies, key messages, and stakeholder engagement accurately reflect programs and projects.
- Utilize and measure engagement and impact of multiple platforms to evaluate messaging for audiences.



2023 Strategic Plan

SUMMARY OF GOALS

Organizational Excellence. Strengthen the organization and workforce to perform our core functions and responsibilities.

Planning and Infrastructure. Implement comprehensive, integrated, and innovative infrastructure planning to strengthen existing services, minimize life cycle costs, and prepare for the future.

Environmental Stewardship. Protect and sustain our watersheds to maintain water resources, ecosystems, and communities.

Emergency Preparedness. Build organizational resilience and ensure effective emergency response to extreme weather events, disasters, and security risks.

Climate Change. Assess risk and uncertainty of climate change, and develop and take actions that improve resiliency and sustainability.

Community Engagement. Engage with the community to build understanding, trust, and support for projects and programs.

Message from General Manager Grant Davis



Last spring Sonoma Water committed to developing a five-year 2023 Strategic Plan that focuses on our core functions of water supply, wastewater, and flood control. In this Strategic Plan, we are looking at a future that is very different from our past as we face challenges and opportunities presented by climate change, evolving technology, and aging infrastructure. Our new Mission, Vision, and Strategic Plan provide a framework for allocating resources and guiding decisions that support innovative responses to these challenges and that take advantage of opportunities.

During the Strategic Plan process, we heard from our employees, stakeholders, and water contractors through an engagement survey, focus groups, and direct conversations. The input we received highlighted our community's desire that Sonoma Water continues to conduct its work with a focus on integrity and transparency. A Strategic Plan Advisory Committee composed of representatives from all of Sonoma Water's divisions met more than 12 times, using an iterative collaborative process for input and feedback.

This Strategic Plan is a living document that will be monitored and adapted as needed over the next five years. One of the key roles of Sonoma Water's newly created Office of Project Management is to ensure the successful implementation of the Strategic Plan.

I want to extend my sincere appreciation to the Board leadership, employees, and everyone who engaged in the process. I am excited to share this 2023 Strategic Plan, which builds on our strengths and lays the groundwork for ambitious possibilities at Sonoma Water.

VISION STATEMENT

Ensuring resilient water resources now and for future generations.

MISSION STATEMENT

To provide reliable water supply, wastewater management, and flood protection — essential services for a thriving community and a healthy environment.

VALUES

- Community.** Supporting our community by providing vital, high-quality services through sound operations, open communication, inclusive engagement, and timely response.
- Our Team.** Cultivating a strong, collaborative workforce driven by clear goals, transparent communication, and job satisfaction.
- Equity.** Advancing policies and practices that foster an inclusive working environment and culturally responsive services to meet the diverse needs of the community.
- Resilience.** Developing innovative, sustainable solutions for reliable operations through infrastructure investment, maintenance, and preparation for climate change and disasters.
- Integrity.** Ensuring accountability through sound and clear business practices.
- Environmental Stewardship.** Protecting and enhancing the natural resources in our care.





Goal:
ORGANIZATIONAL EXCELLENCE

Strengthen the organization and workforce to perform our core functions and responsibilities.

Strategy: Create an environment that attracts, retains, and engages a high performing, diverse, and inclusive workforce.

Action Items

- Establish clear performance management practices to achieve and support a high-performance culture and recognize employee contributions.
- Prioritize workforce development to grow and preserve intellectual capital at all levels of the organization.

Strategy: Implement organizational development practices to enhance internal communications, decision-making, resource alignment, and project management processes.

Action Items

- Evaluate and refine organizational structure to ensure optimal alignment and allocation of resources.
- Improve communication and internal business processes to enhance transparency and internal coordination.
- Improve internal records management to maximize utility, accessibility, and security.

Strategy: Ensure financial integrity and stability by implementing sound and equitable practices to meet infrastructure and service needs.

Action Items

- Ensure adequate funding and increase grant revenues to support priorities.
- Further develop budget tracking tools, long range financial plans, and fiscal processes.
- Update and refine plan to improve procurement processes
- Initiate development of business plans to improve flood and sanitation financial and operational stability.



Goal:
PLANNING AND INFRASTRUCTURE

Implement comprehensive, integrated, and innovative infrastructure planning to strengthen existing services, minimize life cycle costs, and prepare for the future.

Strategy: Conduct planning that integrates and balances operational, maintenance, and infrastructure priorities.

Action Items

- Conduct and update natural hazard vulnerability assessments to reliably meet performance requirements and service goals.
- Continue to engage in planning efforts and partnerships to protect and enhance our water supply.
- Continue to engage in planning efforts to support reliable wastewater and flood management services
- Continue to identify opportunities to implement renewable and efficiency-enhancing energy projects to meet energy policy objectives

Strategy: Implement the Computerized Maintenance Management System and Asset Management Program.

Action Items

- Implement and sustain the new Computerized Maintenance Management System (CMMS).
- Complete the development of the Asset Management Program (AMP).
- Assess the staffing needs to support the use of the CMMS and develop a recommendation for the structure of an Infrastructure Planning/Asset Management team.
- Improve the process through which projects are identified, prioritized, funded, and scoped to develop the annual five-year Capital Improvement Plan.

Strategy: Fund and implement the planned capital and maintenance projects on schedule to ensure reliable services.

Action Items

- Identify and build out staffing needed to meet volume of projects
- Fund Capital Improvement Program budgets to meet infrastructure needs.
- Implement standardized project management practices.

Strategy: Develop processes for addressing emergency or urgent infrastructure repairs.

Action Items

- Assess and establish staff assignments necessary to efficiently respond to urgent needs while minimizing adverse impacts to normal operations.
- Establish contractor, consultant, and vendor contracts to be used for urgent projects.



Goal:
ENVIRONMENTAL STEWARDSHIP

Protect and sustain our watersheds to maintain water resources, ecosystems, and communities.

Strategy: Ensure current and future water supply reliability by complying with the Federal and State Endangered Species Acts.

Action Items

- Ensure current and future water supply reliability by complying with the Federal and State Endangered Species Acts.
- Complete and submit to resource agencies the biological assessment for the next Russian River Biological Opinion.
- Implement the 2023 Russian River Biological Opinion.

Strategy: Protect, enhance, and monitor natural resources, watershed conditions, and ecosystem health that are vital to the Russian River, Petaluma River, and Sonoma Creek watersheds.

Action Items

- Support collaborative efforts to improve habitat and pursue restoration opportunities that provide integrated regional benefit.
- Conduct fisheries, wildlife, and water quality monitoring through existing programs and use of new technologies.
- Identify options to meet vegetation mitigation and restoration needs.

Strategy: Ensure that environmental and ecosystem considerations are incorporated into water resources planning, capital, operations, maintenance, and restoration project implementation.

Action Items

- Support regular interdepartmental coordination meetings to share understanding of current regulatory requirements.
- Anticipate and respond to new requirements of the California Environmental Quality Act, National Environmental Policy Act, and listing of new species under State and Federal Endangered Species Acts.

Strategy: Provide regional leadership in salmonid species recovery and improving watershed health through partnerships on technical and policy-related initiatives.

Action Items

- Continue to provide support to the Russian River Regional Monitoring Program (R3MP) by sharing technical expertise and resources.
- Continue to implement the California Department of Fish & Wildlife's Coastal Monitoring Program in the Russian River watershed.
- Continue to provide technical support to regional partners through drought response activities.



Goal:
EMERGENCY PREPAREDNESS

Build organizational resilience and ensure effective emergency response to extreme weather events, disasters, and security risks.

Strategy: Strengthen and ensure a comprehensive emergency response capability through coordinated response programs, resource management, and emergency planning.

Action Items

- Fully develop and enhance the capabilities of the Emergency Operations Center (EOC).
- Establish operational emergency response functions, procedures, and systems.
- Develop robust, redundant, voice and data communications capabilities to sustain interagency, multi-jurisdictional communication.
- Improve coordination with water contractors, regulatory agencies, and government partners.
- Maintain an emergency management training and exercise program that prepares staff for response and recovery activities.
- Develop and maintain a business continuity program that plans for and minimizes disruptions to Sonoma Water's essential business functions.

Strategy: Enhance and maintain effective cybersecurity practices.

Action Items

- Ensure all cybersecurity incidents are reported and reviewed, and lessons learned are incorporated into future cybersecurity program updates or enhancements
- Conduct cybersecurity vulnerability assessments and maintain an active cyber threat assessment program to adapt to increased threats.
- Conduct regular cybersecurity exercises and drills that address the full range of threats.

Strategy: Develop and implement a comprehensive physical security program.

Action Items

- Establish a security program for staff, infrastructure, sites, and other related assets.
- Ensure appropriate site security, access control, monitoring, and other type surveillance systems are implemented, maintained, and enforced
- Enhance security systems and staff response capabilities through regular training, exercises, and drills.



West Marin Service Area water supply resiliency project

Request

\$2 million to improve the District's water supply reliability to the West Marin County communities by identifying and establishing a new long-term water supply to bolster existing sources that is resilient to the impacts of climate change; primarily Drought and Sea Level Rise, as well as the existing natural hazards in the area.



The problem

The North Marin Water District (District) provides water for approximately 1,800 customers within the communities of Point Reyes Station, Olema, Inverness Park, Bear Valley, and Paradise Ranch Estates, as well as the National Park Service's Point Reyes National Seashore Headquarters and Visitor Center. The water is supplied through one interconnected system, the District's West Marin Water System. The water supply for the West Marin Water System consists of four wells at two separate sites adjacent to Lagunitas Creek. Two of those wells are located in Point Reyes Station (Coast Guard Wells), and the other two wells are located at the Gallagher family ranch property (Gallagher Wells), approximately one mile upstream of the District's Point Reyes Station Treatment Plant. Gallagher Well No. 1 was drilled in 1993 and has limited water production relative to the other wells in the system. Gallagher Well No. 2 was drilled in 2022 and is in full production as of November 2022.

Historically, the District has relied primarily upon the Coast Guard Wells to supply water for the entire West Marin Water Service Area. However, due to the proximity of the Coast Guard Wells to Tomales Bay, they are under the influence of flows in the tidal reach of Lagunitas Creek and subject to periodic salinity intrusion and occasional flooding. These adverse impacts are further exasperated by the effects of rising sea levels. The two Gallagher Wells are located further upstream and are not subject to any flooding or the tidal reach of Lagunitas Creek. The Gallagher Wells are designed to be resilient to future impacts of Sea Level Rise, based on the Our Coast Our Future Hazard Map¹, and inputs of 200 cm (6.56 feet) of Sea Level Rise combined with a 100-year storm.

The opportunity

Improving water supply reliability by identifying and establishing an additional long-term water supply that is resilient to two impacts of climate change: Drought and Sea Level Rise (SLR). Improving water source capacity will allow the District to either fully replace the use of the Coast Guard Wells, or potentially modify the existing Point Reyes Treatment Plant to address increased salinity levels from these wells. The project will build upon and maintain the District's history of best practice and mitigation measures to minimize impacts to the natural environment and demonstrate leadership in climate action and water supply resiliency by acting as a roadmap for future projects by other nearby water districts.

The primary goals of the Project are to:

- provide redundant and reliable water supply for the community;
- reduce the need for the use of existing wells subject to salinity intrusion and SLR;
- develop additional water supply that is more resilient to effects of climate change and existing natural hazards;
- install new infrastructure with minimal impacts to the community;



For additional information

Scan the code or please contact Eric Miller at emiller@nmwd.com or 415-897-4133.



¹ <https://ourcoastourfuture.org/hazard-map/>

REAL ESTATE

Plans to split lots begin to multiply

Marin officials see rise in SB 9 housing filings

BY RICHARD HALSTEAD

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Marin homeowners are beginning to take advantage of a new state law that allows them to split their parcel and build up to four homes on the lot.

The California Home Act, more commonly known as Senate Bill 9, took effect on Jan. 2, 2022. The law, which opens the door for more dwellings in areas zoned for detached homes, was passed with the hopes that it would help ease the state's critical shortage of affordable housing.

Because the law specifies ministerial review only, SB 9 projects can't be denied by local design review boards, planning commissions or county supervisors. The projects also don't have to comply with the California Environmental Quality Act.

Until recently, however, few if any Marin homeowners had put SB 9 to use. That appears to be changing.

Marin County approved its first SB 9 project at the end of January and is reviewing a second application. Novato has received its first applications, for 560 Trumbull Ave. and 98 Robinhood Drive. Ross has received an application for 1 Ridgeview Drive. Mill Valley recently rejected an application that didn't qualify and is evaluating another preliminary application for 415 Rose Ave.

SB 9 has proven to be the most popular in Corte Madera, where planners have approved three projects and are reviewing four more. So far, all of the SB 9 projects in Marin have been simple lot splits with no building proposals attached.

The county has approved a lot split at 47 Skyline Terrace in unincorporated Mill Valley. The 13,347-square-foot parcel will be divided into a 8,008-square-foot lot and a 5,339-square-foot lot. The larger lot has a 3,353-square-foot house on the property.

Prior to SB 9, this lot split, and another being evaluated by the county at 99 Laverne Ave. in unincorporated Mill Valley, would initially have been reviewed by the Tamalpais Design Review Board.

Regarding the lot split at 47 Skyline Terrace, Andrea Montalbano, a county planning commissioner who used to be on the Tamalpais Design Review Board, said, "Lot splits like

these could be very problematic for everyone because of the steepness of the slope and the creation of a high amount of impermeable surfaces.”

“There is no area for on-site retention of rainwater, and I have no idea if any can be required by public works on an SB 9 project,” Montalbano said. “If both sites were to be built on as new, the drainage would need to be diverted around the leg of the parcel.”

According to the planning department’s summary of the project, both lots would have an average slope of about 47%.

The fact that SB 9 makes it possible to get lot splits approved ministerially might explain why Corte Madera has received so many applications.

“We do have some parcels where, for the first time, someone is able to split them using the provisions of SB 9,” said Martha Battaglia, a Corte Madera planner. “I think that may be part of it.”

“We have larger lots in the hillside capacity district. Many of the lots are 1 acre or larger,” Battaglia said. “In the past those parcels haven’t been able to be split.”

Battaglia said the prohibition on lot splits in the hillside capacity district was because of the area’s steep slopes.

Corte Madera has recently approved SB 9 lot splits at 208 Chapman Drive, 499 Montecito Drive and 817 Meadowsweet Drive. The latter two are in the hillside capacity district. The town is reviewing applications for lot splits at 1035 Meadowsweet Drive, 3 Lupine Drive, 18 Alta Terrace and 1161 Meadowsweet Drive.

Battaglia said that while none of the applicants has submitted building plans yet, some homeowners have indicated they plan to do. Battaglia said others might be contemplating selling the lots. If homeowners get a lot split approved under SB 9, they can then sell the lot, and the buyer of the lot would inherit the ministerial right to build housing on it.

While local jurisdictions have no authority to review SB 9 projects, they were granted some options in how to implement the law. For example, SB 9 requires that jurisdictions allow up to four dwellings, each no smaller than 800 square feet, when lots are split, but cities and counties may allow larger residences.

County staff recommended allowing SB 9 residences of up to 1,800 square feet. The county Planning Commission opted for a 1,000-square-foot limit, and county supervisors increased it to 1,200 square feet.

Battaglia said Corte Madera allows SB 9 dwellings of up to 1,200 square feet if the applicant conforms to the setbacks in the zoning. Otherwise they’re limited to 800 square feet.

Senate Bill 9 also allows the jurisdictions to require lots created under an urban lot split to have access to a public right of way. Michelle Levenson, a county planner, said more than a dozen homeowners have consulted with the county about filing an SB 9 application since the law took effect, but most couldn’t meet this requirement.

“They’ll have access off of a private street or driveway,” Levenson said.

The county’s first application, filed in early 2022, was rejected because of a lack of public access over the objections of the homeowner, Eric McCloskey.

While SB 9 projects are not subject to public review, they must comply with basic health and safety requirements and environmental laws as overseen by agencies such as public works and fire departments.

Mill Valley Planning Director Patrick Kelly said there were several reasons his city recently rejected an SB 9 application for a lot split at 153 Myrtle Ave.

Kelly said the parcel is in a very high fire hazard severity zone; there are wetlands running through the parcel; the city can’t rule out the possibility that the site is habitat for protected species; and the site lacks adequate access to the public right of way.

RECOVERING REVENUE

Marin Municipal details drought surcharge plan

Customers could avoid rise in bills through conservation



Water flows over the spillway from Bon Tempe Lake towards Alpine Lake in the Mount Tamalpais watershed. Marin Municipal Water District

officials explained their drought surcharge proposal. SHERRY LAVARS —
MARIN INDEPENDENT JOURNAL, FILE



A sign reminding people of the drought stands on the grounds of the Falkirk Cultural Center in San Rafael in 2022. ALAN DEP — MARIN INDEPENDENT JOURNAL

BY WILL HOUSTON

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Marin Municipal Water District officials are proposing rate increases during drought periods to prevent financial shortfalls, but say ratepayers shouldn't expect their bills to spike if they meet their conservation targets.

“Almost 95% of our costs are fixed and that is just inescapable,” Monty Schmitt, president of the district board, said during a meeting this week. “The only way to address this is to recover our revenue in some way. There

is no cutting back when our revenue goes down because then we're no longer providing water for people or taking care of our system.”

In a presentation, Bret Uppendahl, the district finance director, said adding drought surcharges to water rates is a common practice by water agencies throughout the country, including the North Marin Water District. The surcharges are used to make up for revenue losses during droughts resulting from reduced water sales from conservation and mandatory water use restrictions. The district does not use these surcharges and instead sets aside its regular water sales revenue into a reserve fund that it taps when droughts occur.

After the recent two-year drought, the district's reserve fund balance dropped from \$63.1 million in 2021 to about \$28.1 million. Additionally, the staff said the agency faces an annual \$31 million budget shortfall that would increase to \$42 million in the next few years as a result of water revenue losses, inflation and projected costs or investments in adding new water supplies.

To address these issues, the district is proposing to raise base water rates and also add the ability to institute drought surcharges when reservoir levels dip below about 82% of capacity or 65,000 acre-feet.

“By establishing drought rates, the district will not need to hold the same level of reserve balances for future droughts, which partially reduces the overall rate increase,” Uppendahl wrote in an email on Thursday. “The drought rates would not be used to refill reserves, but rather, they would be enacted during a future drought to offset the revenue losses associated with reduced consumption.”

Uppendahl said the drought surcharge would work by temporarily increasing the base water rate for a set period. Residents who conserve, he said, should not notice a difference in the total charges on their bimonthly bills when drought rates are implemented compared to when they are not.

“Obviously, you’re using less water so you’re paying a higher unit price, but the idea is to have customers not pay more during a drought,” Uppendahl told the district board on Tuesday. “It’s just basically to keep everything flat so that the district can continue running.”

While the agency has yet to release its proposed rate increases, Uppendahl said the drought surcharge would increase as reservoir storage depletes and as conservation targets increase. Additionally, how much rates would increase would not correlate with the amount of water the district is asking residents to conserve.

For example, the district’s newly updated water shortage plan states that the board can add drought surcharges to rates when reservoir storage reaches 65,000 acre-feet or less. At that stage, residents will be asked to cut back water use by 20%, but the district could add a 25% drought surcharge to rates. In order for the district to maintain its normal water rate revenue as demand decreases, the drought surcharge must be higher than the amount of conservation, Uppendahl said. A 20% increase in rates would not recover the total lost revenue from a 20% reduction in water sales, he said.

As reservoir supplies deplete, the drought surcharge would increase rates by 43% as ratepayers are asked to cut back by 30%.

Board member Jed Smith said the rate would encourage conservation among ratepayers.

“If you conserve water, if you save, if we keep water in our reservoirs, the rates won’t go up as much,” Smith said during the meeting Tuesday. “This is a strong incentive to reduce demand, reuse your water and not waste it. I think that that is the key message for this pretty significant change.”

Uppendahl said the drought rates will not cover all costs associated with drought, including importing more water from the Russian River, community outreach campaigns and drought planning. Additionally, if residents conserve more water than is asked, it will result in some financial losses for the district.

“They’re not a silver bullet, but they’re a very important factor to have in our toolbox,” he told the board.

The drought rates do not affect fixed fees that the district charges to customers based on their water meter size, including the controversial capital maintenance fee adopted in 2019 meant to fund repairs and replacement of aging water tanks, pipes and pumps as well as fire prevention projects.

The capital maintenance fee and the district’s watershed maintenance fee have been challenged in the Marin County Superior Court by the Coalition of Sensible Taxpayers, known as COST. The nonprofit organization alleges the fees violate state Proposition 218, which prohibits government agencies from charging more for a service than it costs to provide it. COST alleges the fees violate the proposition by charging customers based on the size of their water meter rather than how much water they actually use.

COST’s attorney, Walt McNeill, said the drought rate proposal does not appear to affect fixed fees at this time.

“What’s very obvious is the district has some real work on its hands and I have to say they seem to have a very attentive and pretty intelligent group of board members,” McNeill said. “I’m hopeful they’ll do a pretty good job with this. But obviously, they’re in a difficult situation to deal with the problems they have with not only revenues and planning for the drought contingencies and taking care of all these issues.”

FEDERAL REPORT

Drought ends for majority of California

Rainfall since December changes the designation

BY PAUL ROGERS

BAY AREA NEWS GROUP

Soaked by heavy rains in recent weeks and flooding from a parade of atmospheric river storms since late last year, the majority of California — including the Bay Area — is no longer in a drought, federal officials reported Thursday.

Overall, 49.13% of California's land area now can be classified as in a drought, down from 84.6% last week, according to the U.S. Drought Monitor, a weekly report issued by the National Oceanic and Atmospheric Administration, the U.S. Department of Agriculture and the University of Nebraska.

That's the lowest percentage since July 21, 2020, when 48.2% of the state was in a drought, according to the report.

"The Pacific weather systems of this week and last week added to copious precipitation that has been received from atmospheric rivers since December 2022, especially over California," wrote Richard Heim, a meteorologist with NOAA.

The last time that no part of California was in at least a moderate-level drought was February 2020, the report noted.

"The rain has improved California soil moisture and streamflow levels, while the snow has increased mountain snowpack to above-normal levels," Heim noted. "Most California reservoirs have refilled with water levels near or

above average, but groundwater levels remain low and may take months to recover.

Legally, all 58 of California's counties have been in a drought emergency that was declared by Gov. Gavin Newsom in October, 2021, a status that included a state order for local water agencies to impose conservation restrictions on homes and businesses.

As the current wet winter has unfolded, Newsom has directed officials at the state Department of Water Resources to report back to him in April, after the winter rain and snow season is over, with recommendations on which parts of the state should be removed from the emergency declaration.

California has endured three record-dry years in a row. They have been marked by severe heat waves, massive wildfires, water restrictions for millions of people and water shortages at farms.

In November, 40.9% of the state was in extreme drought, the third worst of four categories the report uses, and 16.5% was in exceptional drought, the worst. After a series of nine atmospheric river storms from late December to mid-January, which triggered flooding, downed trees and brought snow blizzards to the Sierra Nevada, the Drought Monitor removed all of the state from those two most severe categories.

On Thursday, 24.9% of California remained in "severe drought," the second-worst category, down from 91.8% in November.

According to the report, none of California's 15 coastal counties, where many reservoirs are 100% full, are still in any kind of drought status. The Sierra Nevada, which has the biggest snow pack in 30 years, is also completely out of drought from Fresno County's higher elevations to Sierra County north of Lake Tahoe.

In the Bay Area, all nine counties are either entirely or mostly in "abnormally dry" status now, a level below drought.

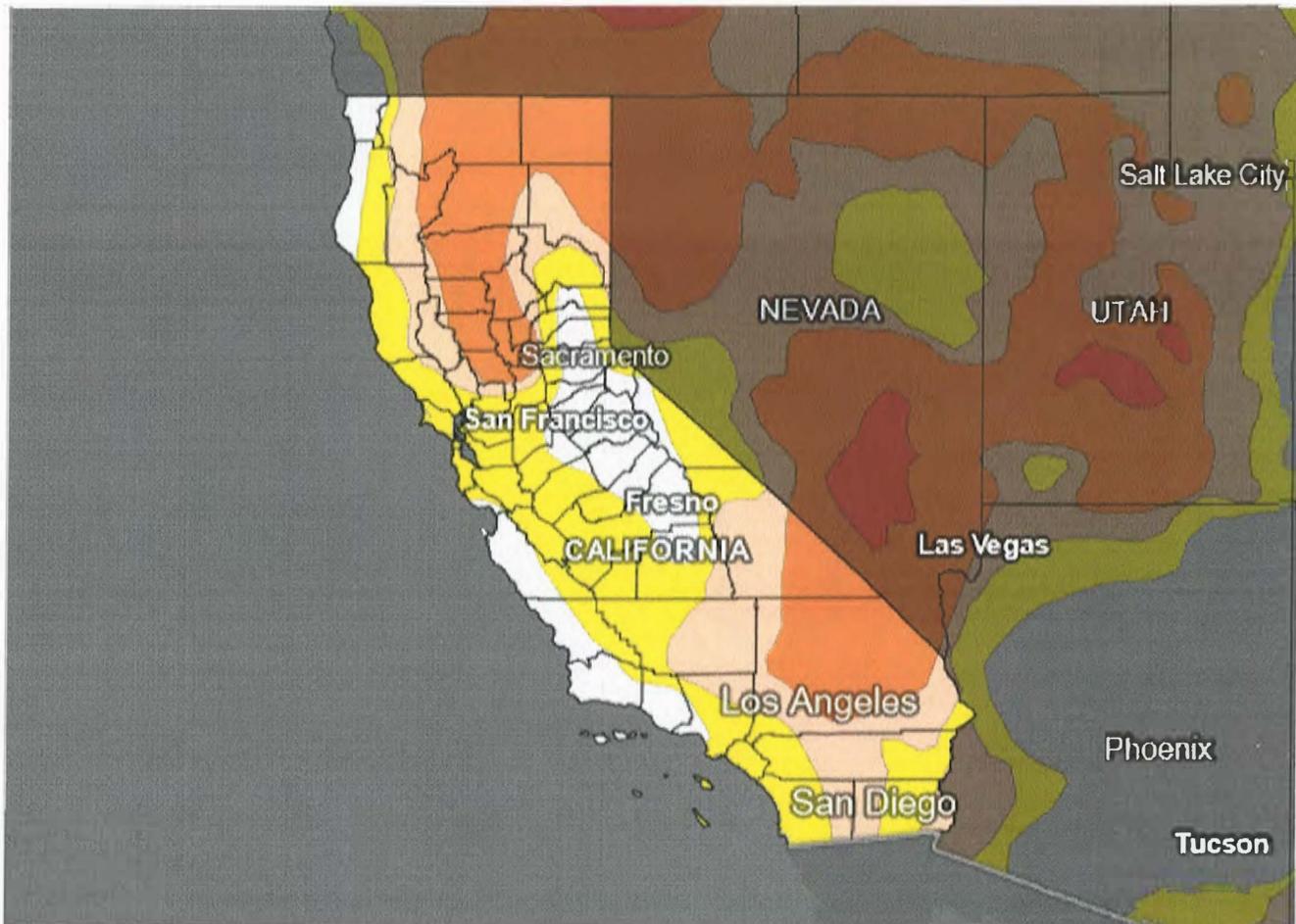
Los Angeles, Orange and San Diego counties are in the same classification, according to the report, which is based on rainfall totals, reservoir levels, snowpack, soil moisture and other measures.

State water officials have noted that while many reservoirs are full or above their historic averages, some, like the state's largest, Shasta, or its third largest, Trinity, both near Redding, fell so low during the drought they haven't filled yet. Shasta on Thursday was 60% full, for example.

They also have said that water supplies still vary widely across the state. While reservoirs are brimming in coastal counties that took the brunt of January storms, Southern California has a water crisis with low levels on one of its key sources, the Colorado River, which hasn't benefitted much from the big storms.

"Some areas will likely come out of drought conditions because of the very wet conditions we've had," said Jeanine Jones, a top official at the Department of Water Resources, last month. "But it really depends on a water supplier's individual sources of supply."

Current U.S. Drought Monitor Conditions for California: Current



U.S. Drought Monitor for CA



Source(s): NDMC, NOAA, USDA
Updates Weekly - 02/28/23

[Drought.gov](https://drought.gov)

North Marin Water District: Serving Novato for 75 Years!

Established in 1948, the North Marin Water District has been working to provide Novato with high quality water at a reasonable cost for the last 75 years. As we recognize these years of service we wanted to note some of the District's major historical events.

In nearly every decade since the 1950s your water district has championed and delivered new projects to meet changing customer needs.

1950s: Constructed Stafford Dam in 1951 on Novato Creek to provide a local water supply source for Novato. The new dam created a storage capacity of 1,720 acre-feet (AF). A subsequent spillway modification in 1954 increased the storage capacity to 4,275 AF.

1960s: We constructed an aqueduct to convey Russian River water to the Novato area, entering into a long-term water supply contract with Sonoma Water.

We also championed the stalled Lake Sonoma project, which had been bogged down for years and created new, much needed water storage that meets about two-thirds of Novato's water needs.

1970s to today: Our industry-leading conservation programs have helped build a permanent culture of mindful water use in Novato. These include implementing landscape watering efficiency standards, developing the first "Cash for Grass" turf rebate and offering our customers rebates on high-efficiency toilets and washing machines. Please consider participating in current conservation program offerings.

1980s: Raised Stafford Dam 8 feet and a new spillway was constructed. Although this didn't change the local water supply capacity of the lake, it made the dam safer in the event of a major flood event.

2010s: We significantly expanded the recycled water system, which now delivers over 250 million gallons of recycled wastewater a year to large landscape irrigation customers and drivethrough car washes. Every gallon of recycled water saves a gallon of valuable potable water.

2019: We installed a smart water metering system, allowing customers to track water use in real-time, promoting awareness and providing real-time data that allows us to alert customers to unusually high-water use (such as from a sudden leak).

2022: Local and Regional Water Supply Enhancement Studies: Recognizing the current drought we explored numerous options, including expanding water recycling, desalination and increasing Stafford Lake's capacity. The analysis was in parallel with a regional study led by Sonoma Water. We prioritized the local supply alternatives by evaluating yield (volume), cost and other factors and are embarking on some of the identified projects. Although some alternatives didn't receive high scores for Novato, we are open to regional opportunities.

We continue to use and benefit from our portfolio of water sources, conservation, and efficient water management tools. We appreciate our customer's awareness and diligence when it comes to water use.

Find out more about North Marin Water District at nmwd.com