



**NORTH MARIN WATER DISTRICT**  
**AGENDA - REGULAR MEETING**  
March 2, 2021 – 6:00 p.m.  
Location: Virtual Meeting  
Novato, California

Information about and copies of supporting materials on agenda items are available for public review at 999 Rush Creek Place, Novato, at the Reception Desk, or by calling the District Secretary at (415) 897-4133. A fee may be charged for copies. District facilities and meetings comply with the Americans with Disabilities Act. If special accommodations are needed, please contact the District Secretary as soon as possible, but at least two days prior to the meeting.

**ATTENTION: This will be a virtual meeting of the Board of Directors pursuant to Executive Order N-29-20 issued by the Governor of the State of California.**

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

**Video Zoom Method**

**CLICK ON LINK BELOW:**

Go to: <https://us02web.zoom.us/j/8349174264>

Password: 466521

**SIGN IN TO ZOOM:**

Meeting ID: 8349174264

Password: 466521

**Call in Method:**

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

Meeting ID: 834 917 4264#

Participant ID: #

Password: 466521#

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

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

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

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

(Continued)

Est. Time	Item	Subject
6:00 p.m.		<b>CALL TO ORDER</b>
	1.	<b>APPROVE MINUTES FROM REGULAR MEETING</b> , February 16, 2021
	2.	<b>APPROVE MINUTES FROM SPECIAL MEETING</b> , February 23, 2021
	3.	<b>GENERAL MANAGER'S REPORT</b>
	4.	<b>OPEN TIME: (Please observe a three-minute time limit)</b>  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.
	5.	<b>STAFF/DIRECTORS REPORTS</b>
		<b>ACTION CALENDAR</b>
	6.	<b>Approve:</b> Gallagher Well No. 2 Report for Gallagher Wells and Pipeline Project: Approve CEQA Addendum to the 2009 Mitigated Negative Declaration (MND) Resolution
	7.	<b>Approve:</b> Renew Declaration of Local Emergency Related to COVID-19 Pandemic
		<b>INFORMATION ITEMS</b>
	8.	Initial Review SCWA FY22 Water Transmission System Budget
	9.	2020 Urban Water Management Plan Status Update
	10.	Point Reyes System Salinity Intrusion Alternate Water Supply Contingency Plan
	11.	FY 2020/21 Second Quarter Progress Report - Water Quality
	12.	FY 2020-21 Second Quarter Progress Report – Operations/Maintenance
	13.	<b>MISCELLANEOUS</b> Disbursements – Dated February 18, 2021 Disbursements – Dated February 25, 2021 Fire Hydrant Meter Summary NOAA Three-Month Outlook Temperature and Precipitation Probability  <u>News Articles:</u> Point Reyes Light – Bo to ration water Marin IJ – Marin balances local look with housing density laws Point Reyes Light – North Marin outlines new water rate increase Marin IJ – Voluntary water cutback urged – MARIN MUNICIPAL Marin IJ - Overdue water bill payment plan set – MARIN MUNICIPAL
7:30 p.m.	14.	<b>ADJOURNMENT</b>

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DRAFT  
NORTH MARIN WATER DISTRICT  
MINUTES OF REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
February 16, 2021

**CALL TO ORDER**

President Grossi announced that due to the Coronavirus outbreak and pursuant to Executive Order N-29-20 issued by the Governor of the State of California this was a virtual meeting. President Grossi called the regular meeting of the Board of Directors of North Marin Water District to order at 6:00 p.m. and the agenda was accepted as presented. President Grossi added that there was not a public location for participating in this meeting, but any interested members of the public could participate remotely by utilizing the video or phone conference dial-in method using information printed on the agenda.

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

President Grossi announced in the event of technical difficulties during the meeting, the District Secretary will adjourn the meeting and the remainder of the agenda will be rescheduled for a future special meeting which shall be open to the public and noticed pursuant to the Brown Act.

Mr. McIntyre performed a roll call of staff, participating remotely were Drew McIntyre (General Manager), Tony Williams (Assistant GM/Chief Engineer), Terrie Kehoe (District Secretary), Julie Blue (Auditor-Controller), Robert Clark (Operations/Maintenance Superintendent), Tony Arendell (Construction/Maintenance Superintendent), Avram Pearlman (Assistant Engineer) and Monica Juarez (Receptionist/Customer Service Assistant).

President Grossi announced for those joining the virtual meeting from the public to identify themselves. In virtual attendance were Ken Levin from the Point Reyes Village Association, Drew Walstrum from City Ventures, Paul Sellier from Marin Municipal Water District and, Andrew Waite, a resident of Novato.

**MINUTES**

On motion of Director Baker, seconded by Director Petterle the Board approved minutes from the February 2, 2021 meeting by the following vote:



AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

#### **GENERAL MANAGER'S REPORT**

##### West Marin Water Rate Study Workshop

Mr. McIntyre reminded the Board of a special meeting and workshop scheduled for Tuesday February 23<sup>rd</sup> at 6:00 p.m. to discuss the West Marin Water Rate Study.

##### NBWRA Board Meeting

Mr. McIntyre announced he, Director Baker and Mr. Williams will be participating in a North Bay Water Reuse Authority (NBWRA) virtual meeting on Monday, February 22<sup>nd</sup> at 9:30 a.m.

##### Dry Year Conditions Update

Mr. McIntyre noted there is a related item later in the agenda regarding backfeeding Stafford Lake. He reminded the Board that on February 11<sup>th</sup> he and TAC Vice Chair Jennifer Burke met with senior SCWA staff to discuss water supply planning and messaging related to dry year conditions along the Russian River. He stated the critical decision point regarding the call for voluntary or mandatory conservation targets will happen on April 1<sup>st</sup>. Mr. McIntyre added staff has another check in call scheduled for early March to reassess the situation. He stated there is also a second related item on the agenda to preemptively approve a Novato Water Conservation Ordinance that will provide the flexibility to set detailed conservation mandates at a later date by resolution. Mr. McIntyre noted with respect to NMWD's ability to respond to current dry year conditions and future water demand forecasting, there will be an update on the 2020 Urban Water Management Plan (UWMP) at the March 2<sup>nd</sup> meeting with a presentation of the draft 2020 Urban Water Management Plan shortly thereafter. The 2020 UWMP goal is to provide an updated forecast of future NMWD water demands and include a detailed evaluation of the water supplies available to meet those demands over a 20-25-year planning horizon.

Mr. McIntyre apprised the Board that he will be on vacation this week and Mr. Williams will be acting General Manager in his absence.

Director Joly noted the Board will see the UWMP in March and then on April 1<sup>st</sup> we will have a better understanding of our situation. He shared that he, like Director Grossi, have had public inquires about the state mandatory housing and how it will affect and reduce our water

supply. Director Joly added, the public will be interested in hearing more about it and thanked staff for providing this forecast as part of the UWMP.

**OPEN TIME**

President Grossi asked if anyone from the public wished to bring up an item not on the agenda and the following was discussed.

Mr. Levin requested Mr. McIntyre include the Coast Guard Housing Complex in his report on water demands. He expressed concern on how new residential demands will fit in with the West Marin water availability issue. Mr. McIntyre replied that the UWMP is only a requirement for water systems serving over 3,000 residents, therefore the report is focused only on the Novato Service Area. He added, when there is discussion about the 2020 UWMP staff can also comment on water impacts associated with the former Coast Guard housing reuse project at the same meeting. Mr. Levin thanked staff for paying attention to this issue.

**STAFF/DIRECTORS REPORTS**

President Grossi asked if any Directors or staff wished to bring up an item not on the agenda and the following was discussed.

Mr. Clark reported on a cyber security incident that occurred in Florida. The FBI, Homeland Security and local authorities reported a hacker got into the system and manipulated the dosing of chemicals at a treatment plant. He stated the treatment plant had an alarm system and the on-duty operator was able to take control of the situation. Mr. Clark noted EPA and AWWA have issued information to prevent this type of activity. He added last year staff examined NMWD's cyber security and completed an initial review of all potential cyber security issues and updated the Emergency Response Plan. Mr. Clark stated as a result they found no loop holes in our system, adding Core Utilities has done a fantastic job to make sure our systems are protected. He noted EPA does not allow direct remote access to SCADA or any other systems including databases. They advised installing firewalls and NMWD has had them in place for many years. Mr. Clark reported no unauthorized sources can access our system due to a three-level remote access set up for all of our systems. He noted staff will continue to look at protecting passwords and change them more frequently and changes will be implemented when staff updates the Emergency Operations Plan. Mr. Clark added that our AMI and Asset Management programs meet all remote access criteria.

Director Joly thanked Mr. Clark and staff. He noted he was also aware of the Florida incident. He heard about it from a customer and saw the episode on 60 Minutes that highlighted the cyber security problem. Director Joly added it is essential to continue to monitor our systems. Director Fraites added he was also contacted by a customer and assured the resident that staff

was already taking care of our security.

**MONTHLY PROGRESS REPORT**

The Monthly Progress Report for January was reviewed. Mr. McIntyre reported that water production in Novato was up 40% from one year ago and up 3% fiscal year to date. In West Marin, water production was up 2% from one year ago and down 2% fiscal year to date. Recycled Water production was down up 45% from one year ago and up 6% fiscal year to date. The Board was apprised that Stafford Lake was at 29% capacity, Lake Sonoma was at 64% and Lake Mendocino was at 41% capacity. In Oceana Marin effluent volume was 0.479 MG for January compared to 0.590 MG one year ago and there was no irrigation field discharge. The freeboard level was good and nothing was of concern in Oceana Marin. Under Safety and Liability, Mr. McIntyre reported that we had 75 days without a lost time injury. On the Summary of Complaints and Service Orders, the Board was apprised that total numbers are down 35% from January one year ago. Mr. McIntyre reported the bill adjustment numbers were lower however the dollar amount was higher due to the one large West Marin adjustment that was discussed at the last meeting.

Ms. Blue reported on the January 2021 Investments, where the District's portfolio holds \$25M earning a 0.72% average rate of return. She noted that during January the cash balance decreased by \$182,929. Ms. Blue also noted the Local Agency Investment Fund (LAIF) interest rate is at 0.46%. She added interest rates in CD's have declined in two years, therefore we will not see the same return on those investments going forward.

**CONSENT ITEMS**

On the motion of Director Petterle, and seconded by Director Fraites the Board approved the following items on the consent calendar by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

**AMENDMENT NO. 1 HAMILTON VILLAGE WATER FACILITIES (APN: 157-970-03)**

Amendment No. 1 for the Hamilton Village Water Facilities changes the deadline to complete financial arrangements from six (6) months to nine (9) months from the date of the agreement which was executed on September 14, 2020. This amendment also changes the deadline to start construction as set forth in the agreement from twelve (12) to fifteen (15) months from the date of the agreement.

**AMY SKEWS-COX (ASC) – GENERAL CONSULTING SERVICES AGREEMENT**

A general consulting services agreement with Amy Skewes-Cox (ASC) with a not to exceed limit of \$20,000 for periodic CEQA and related services to assist staff with District workload demands. This agreement will be based on individual task orders on a job-by-job basis.

**AMEND GENERAL SERVICES AGREEMENT – MILLER PACIFIC ENGINEERING GROUP**

The current agreement with Miller Pacific Engineering Group (MPEG) was for \$60,000 and the associated funding has been allocated/expended. This amendment will increase funds and increase the budget by \$60,000 for MPEG to provide as-need geotechnical services.

**GENERAL SERVICES CONTRACT FOR COATING INSPECTION SERVICES**

The General Manager received authorization to execute a general services agreement with West Coast Coasting Consultant for coating inspection services on a task order basis with a not to exceed limit of \$45,000.

**AMEND GENERAL SERVICES AGREEMENT – CINQUINI AND PASSARINO, INC**

This amendment will increase funds for Cinquini and Passarino, Inc. to provide as-needed land surveying services, which includes topographic and boundary survey work for the District Administration Building Renovation project. Authorization by the Board allows the General Manager to amend the General Services Agreement and increase the budget by \$30,0000.

**CONSULTING SERVICES AGREEMENT AMENDMENT NO. 2 – DeGABRIELE**

The General Manager received authorization to approve Amendment No. 2 to the Consulting Services Agreement with Chris DeGabriele for a time extension through June 20, 2022. Mr. DeGabriele's services will continue to be needed for the Office Building Renovation project and miscellaneous Stafford Lake, Lagunitas Creek and Russian river water supply issues (including the Potter Valley Relicensing Project).

**ACTION ITEMS**

**SET PUBLIC HEARING TO CONSIDER A WATER CONSERVATION ORDINANCE IN THE NOVATO SERVICE AREA**

Mr. McIntyre requested to set Public Hearing for March 2, 2021 to consider a Water Conservation Ordinance in the Novato Service Area. Mr. McIntyre noted NMWD staff has reviewed the Novato Area Water Shortage Contingency Plan and Emergency Water Conservation Ordinance and has been in discussion with legal counsel on the best course of action for 2021 given the water supply uncertainty at this time. The recommended action was to preemptively approve a Water Conservation Ordinance with detailed conservation mandates to be approved by future resolution once the final rainfall and water supply has been determined in April. Mr. McIntyre noted this action has been recommended by legal counsel as the most efficient and effective way moving forward to navigate the evolving dry year conditions we may be faced with

168 this year.

169 On the motion of Director Joly, and seconded by Director Petterle the Board approved the  
170 March 2, 2021 regular Board meeting as the date and time to hold a public hearing to consider a  
171 Water Conservation Ordinance in the Novato Service Area by the following vote:

172 AYES: Director Baker, Fraites, Grossi, Joly and Petterle

173 NOES: None

174 ABSTAIN: None

175 ABSENT: None

176 **SET PUBLIC HEARING TO CONSIDER AMENDING ORDINANCE 39 IN WEST MARIN**  
177 **SERVICE AREA**

178 Mr. McIntyre requested the Board approved setting a Public Hearing to consider amending  
179 Ordinance 39 in the West Marin Service Area. He noted in West Marin, we are still operating  
180 under dry year conditions which went into effect last April 1, 2020. Mr. McIntyre added dry year  
181 conditions on Lagunitas Creek have occurred in 2014 and 2020 and this could be the third year  
182 that the District may have to operate with flows in Lagunitas Creek at less than 8 cfs during the  
183 summer. He stated the Interconnection agreement also requires that if Marin Municipal has  
184 requested voluntary or mandatory water use reductions of its customers, that the District would  
185 require its West Marin customers to reduce water use by a similar percentage. Mr. McIntyre  
186 stated by amending Ordinance 39 it will allow flexibility to make changes to the Ordinance in the  
187 future by resolution. He added this could include, but is not limited to; date changes to reflect  
188 2021 dry year conditions and voluntary and/or mandatory percentage reduction levels to match  
189 that approved by MMWD.

190 Director Petterle stated this is another year that there has been low water flows in  
191 Lagunitas Creek, and also a year of low salmon spawning nests in the creek. He asked if there  
192 was any speculation on how these two situations are related. Mr. McIntyre replied that he has  
193 not heard a current update; however, he commented that is it unlikely the spawning sites, while  
194 low in number, will be washed out this winter season. Mr. McIntyre announced Paul Sellier from  
195 Marin Municipal is attending the meeting and asked if he had anything to add. Mr. Sellier  
196 introduced himself as the Operations Director at Marin Municipal Water District. He stated he did  
197 not have anything to add, other than it is not only during dry years that they see low fish numbers.  
198 Director Joly thanked Mr. Sellier for attending the meeting.

199 On the motion of Director Joly, and seconded by Director Baker the Board approved the  
200 March 2, 2021 regular Board meeting as the date and time to hold a public hearing to consider  
201 amending Ordinance 39 in the West Marin Service Area by the following vote.

202 AYES: Director Baker, Fraites, Grossi, Joly and Petterle

203 NOES: None

204 ABSTAIN: None

205 ABSENT: None

206 **SAN MATEO 24-INCH TRANSMISSION MAIN PROJECT FOR FIRE SAFETY AND**  
207 **RELIABILITY FEDERATED INDIANS OF GRATON RANCHERIA TRIBAL MONITORING**  
208 **AGREEMENT**

209 Mr. Williams introduced Assistant Engineer Avram Pearlman who reported on the  
210 monitoring agreement for the San Mateo 24-Inch Transmission Main Project for Fire Safety and  
211 Reliability with the Federated Indians of Graton Rancheria Tribe. He noted the District owns a  
212 parcel of land for the tank site and easement for a 24-inch pipeline from San Mateo Tank to Palmo  
213 Way, as originally designed. The alignment passes through sensitive habitat and after  
214 coordinating with Marin County Open Space District (MCOSD), it was agreed to relocate the  
215 planned pipeline to minimize impact to rare and endangered species. Mr. Pearlman added the  
216 current design for a new 24-inch pipe follows an alternate route, connecting to existing Zone 2  
217 infrastructure in San Mateo Way. Mr. Pearlman then provided history of the project and required  
218 permitting.

219 Mr. Pearlman stated the duration of the project that will require monitoring is estimated to  
220 be two weeks with a not-to-exceed limit of \$7,500 , and includes some exploratory borings before  
221 the project breaks ground

222 Director Joly noted this project is in his district near his home. He thanked staff for their  
223 hard work on this project. Director Joly stated the new 24-inch pipeline is shorter than from Palmo  
224 Way and asked if there will be a problem getting access from San Mateo Way. Mr. Pearlman  
225 answered in reference to the excavation equipment. He stated there are two directions, San  
226 Mateo Way and San Andreas Drive which is a more established fire road. Mr. Pearlman noted  
227 Open Space District is very particular where we can access and we are limited, however it is ok  
228 on the San Mateo corridor. Director Joly stated we are going from a twelve-inch pipe to a twenty-  
229 four-inch pipe and asked if it will make the water pumped from the pump station more readily  
230 available and faster. Mr. Pearlman confirmed, noting now it takes three weeks to drain the tank,  
231 with the new twenty-four-inch line the flows will be better and the pump station will have to work  
232 less. He added this will save energy and the fire department will be able to pull water out of the  
233 hydrants more readily. Director Petterle asked if we had an agreement with the tribe for  
234 monitoring and with the archeologists. Mr. Pearlman confirmed communication with both groups.  
235 Director Grossi asked what the size of the pipeline was on San Mateo Way. Mr. Pearlman replied

it is also a twelve-inch pipeline, noting we will still have a small section at the end of San Marin Drive to San Mateo Way, but we will have two lines now. Director Grossi asked if this line will be upsized in the future. Mr. Clark stated the line goes into a twenty-four-inch pipeline. Mr. Pearlman stated it is currently configured like a bottle. Director Joly noted that this project will still provide better fire protection for the San Mateo Way residents.

On the motion of Director Joly, and seconded by Director Baker the Board approved authorized the General Manger to execute the FIGR Tribal Monitoring Agreement. by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

#### **STAFFORD LAKE BACKFEEDING**

Mr. McIntyre stated the District has been backfeeding Stafford lake during dry year periods dating back to the 1976-1977 drought. He explained to the Board that due to current dry year conditions it would be beneficial to expediently move water into Stafford Lake while it's available from the Russian River system. Mr. McIntyre noted the backfeeding cost would be derived from the cost to pump SCWA water into Stafford Lake plus the marginal cost to re-treat SCWA water stored in Stafford Lake. He stated the projected balance in the Water Treatment budget at fiscal year-end will be \$385,000 which will sufficiently cover the cost of backfeeding the requested 600-acre feet.

Director Joly asked why we chose 600-acre feet and a 50% cap. Additionally, he asked if we have the ability to backfeed more in May if we have no more rainfall this season. Mr. McIntyre responded that Lake Sonoma at 64% capacity still has a reasonable water supply for this year but we will reevaluate total backfeeding amounts over the next 6-8 weeks. Director Petterle noted he has not seen any runoff coming off the golf course into the reservoir. Director Grossi added he has hasn't seen any runoff in the canyons at the ranch as well

On the motion of Director Baker and seconded by Director Joly the Board approved authorization to backfeed Russian River water into Stafford Lake immediately by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

270 **RENEW DECLARATION OF LOCAL EMERGENCY RELATED TO COVID-19 PANDEMIC**

271 Mr. McIntyre requested the Board find that there still exists a need to continue the State  
272 of Emergency due to the COVID-19 pandemic as reflected by Resolution No. 20-07.

273 Mr. McIntyre reminded the Board that staff has been operating under partial Emergency  
274 Operations Center (EOC) activation. On December 3, 2020 Governor Newsom announced that  
275 all sectors other than retail and essential operations will be closed in regions of California where  
276 less than 15% of intensive care unit (ICU) beds are available under a new Regional Stay Home  
277 Order. Mr. McIntyre reported Marin County is currently operating under Tier 1 or purple stage,  
278 the most restrictive within the states blueprint for a safer economy, however indications are that  
279 Marin could move into Tier 2 or red stage very soon. He stated maximum workplace space  
280 continues and walk in services remain suspended. Mr. McIntyre added total COVID-19 related  
281 costs have been updated and now estimated at approximately \$145,000 through the end of  
282 January 2021. He noted water bill delinquency factors have remained relatively constant over  
283 the last month or so, but obviously are still trending higher than pre COVID-19 days.

284 Director Joly asked health status of the staff, adding so far, we seem to be blessed that  
285 our staff and their families have not been severely impacted. Mr. McIntyre reported at this time  
286 none of the staff are impacted by COVID. Director Grossi noted the state is promising to come  
287 up with 80% of the cost of delinquent utility bills so we can cross our fingers and see what we get.

288 On the motion of Director Baker, and seconded by Director Petterle the Board approved  
289 renewal of the Declaration of Local Emergency Related to COVID-19 Pandemic by the following  
290 vote:

291 AYES: Director Baker, Fraites, Grossi, Joly and Petterle

292 NOES: None

293 ABSTAIN: None

294 ABSENT: None

295 **INFORMATION ITEMS**

296 **GALLAGHER WELL NO. 2 PROJECT CEQA ADDENDUM UPDATE**

297 Mr. McIntyre reminded the Board at the December 15, 2020 Board meeting that staff  
298 provided an update for the Gallagher Well No. 2 project and discussed the proposed CEQA  
299 strategy recommending an addendum to the 2009 Gallagher Wells and Pipeline Project IS/MND.  
300 He stated the 30-day courtesy review period began on January 8, 2021 ended on February 8,  
301 2021. Mr. McIntyre reported two comment letters were received on the CEQA Addendum. He  
302 stated it was initially anticipated that this item would be scheduled for consideration at the  
303 February 16, 2021 meeting, however staff and NMWD consultants needed more time to prepare



304 a thorough response to the letters. Mr. McIntyre noted Board action to consider adoption of  
305 Addendum and project approval will be delayed until the first or second meeting in March.

306 Director Joly stated there are a lot of moving parts to consider; the West Marin drought,  
307 fire protection and salinity intrusion. He asked what date will we be able to start pumping water.  
308 Mr. McIntyre replied it is possible if the District gets all the permits we could pump water as early  
309 as mid-summer, however it depends on the permitting. He noted Gallagher Well No. 2 will  
310 address our salinity issues, however we will still have dry year conditions and we will still need to  
311 conserve. Mr. McIntyre added, staff and our consultants are doing the best we can, but the  
312 permitting is hard to pin down. Director Joly commended Mr. McIntyre for doing a great job and  
313 he stated he appreciated his candor. He asked with the urgency of the situation if the county  
314 could help on their end. Mr. McIntyre replied that County staff have been very receptive to keep  
315 their review at a fast pace.

316 **FY 2020-21 SECOND QUARTER PROGRESS REPORT – WATER CONSERVATION**

317 Mr. Williams reported on the second quarter Water Conservation progress report. He  
318 discussed the status of water conservation programs, current public outreach and conservation  
319 marketing.

320 Mr. Williams noted COVID has impacted the in-person surveys, however staff is still able  
321 to do some virtually using the Watersmart technology. He added one exception is the retrofit on  
322 resale program. This program has not been impacted as the real estate market is still strong. Mr.  
323 Williams stated the irrigation programs have also not been impacted. In reference to social media,  
324 Mr. Williams reported that Mr. Grisso is pushing out the same message as the other water  
325 partners, with the focus on dry year conditions. He is keeping the website current and relevant.  
326 Additionally, Mr. Grisso can continue to interact with customers using the Watersmart portal.

327 **FY 2020-21 SECOND QUARTER PROGRESS REPORT – ENGINEERING DEPARTMENT**

328 Mr. Williams reported on the second quarter Engineering Department progress report. He  
329 reported on the performance status for improvement projects, the Novato service area project  
330 costs variances, West Marin and Oceana Marin Project costs variances and Engineering  
331 Department labor hours. He stated at this time staff is working on getting the design completed  
332 and the permitting and stakeholders coordinated so that next quarter they can focus on  
333 construction. Mr. Williams stated he started with twenty-three projects, added sixteen and carried  
334 over five. He noted the West Marin expenditures are slightly higher than budgeted due to the  
335 Streambank Restoration at Gallagher Ranch which does not reflect the grant and stakeholder's  
336 money, which makes the number deceiving. Mr. Williams added Engineering is ahead on labor  
337 hours and this will adjust over time when the projects move into the construction phase.

Director Joly asked if the \$400,000 dollars in grant money was not reflected in the figure reported. Mr. Williams confirmed, adding only what is budgeted and expended was listed and there have been no adjustments at this time. Our forecast is higher than the budget, because we are not accounting for the revenue to coming in, Mr. Williams stated. Mr. Levin stated he had a discussion with the owner of Black Ranch who is working with SPAWN and he would like to discuss what he knows with Mr. Williams. He added he would like to discuss how the restoration there might affect the Gallagher Well situation. Mr. Williams replied it would be good to have the discussion and he will provide his contact information. Mr. Levin thanked staff.

**NBWA MEETING – FEBRUARY 5, 2021**

Director Fraites reported on the February 5, 2021 NBWA Meeting. He reported on the highlights from the Bay Regional Monitoring Program and the newly developed regional watershed model. Director Fraites stated they are making incredible progress monitoring over eighty sites of water entering the San Francisco Bay. He added the studies and research are phenomenal and they are looking for contaminants in stormwater runoff and construction water runoff. Additionally, Director Fraites noted they are finding micro plastic, and rubber tire byproducts going into the bay. He added there is a lot of work to do, but now we have a sponsor who will be watching all of the bay area and are making progress in stopping containments from going into our bay.

**MISCELLANEOUS**

The Board received the following miscellaneous items: Disbursements – Dated February 4, 2021, Disbursements – Dated February 11, 2021, Point Reyes Light - Salinity Notice – January 28, 2021 and Reimbursement Program 2020.

The Board received the following news articles: Press Democrat – Jim Harberson, former Sonoma County supervisor and Petaluma councilman, dies at 78; Marin IJ – Longtime Indian Valley Golf Club GM dies at 81; The Mercury News – Sierra snow grows, but Bay Area has 3<sup>rd</sup> biggest rainfall deficit since 1849; Marin IJ – Marin Voice – Advanced metering, desalination would bolster supply; Marin IJ – Editorial – Novato campus plan brings hope for future; Marin IJ – Editorial – State ignores community approach; Marin IJ – ‘Ominous’ Outlook – Dry Winter and Point Reyes Light – Inverness tax leaves big questions.

The Board received the following social media posts: NMWD Web and Social Media Report – January 2021.

Director Baker commented about the article in memory of Jim Harberson. He stated he was fortunate to have known Mr. Harberson when he was on the Sonoma County Board for fourteen years. Director Baker said he occasionally had some interaction with him on certain

372 projects and he was a real gentleman, had a great sense of humor and was a great public servant.  
373 Director Fraites agreed, adding he was a great politician, a gentleman and did a good job for  
374 Sonoma County.

375 Director Grossi commented the social media, noting the numbers are looking better. He  
376 acknowledged this is a good sign, noting Facebook, Twitter and Instagram were all up.

377 President Grossi adjourned the meeting at 7:19 p.m.

378 Submitted by

379

380 Theresa Kehoe  
381 District Secretary  
382

2

DRAFT  
NORTH MARIN WATER DISTRICT  
MINUTES OF SPECIAL MEETING  
OF THE BOARD OF DIRECTORS  
February 23, 2021

**CALL TO ORDER**

President Grossi announced that due to the Coronavirus outbreak and pursuant to Executive Order N-29-20 issued by the Governor of the State of California this was a virtual meeting. President Grossi called the special meeting of the Board of Directors of North Marin Water District to order at 6:00 p.m. and the agenda was accepted as presented. President Grossi added that there was not a public location for participating in this meeting, but any interested members of the public could participate remotely by utilizing the video or phone conference dial-in method using information printed on the agenda.

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

President Grossi announced in the event of technical difficulties during the meeting, the District Secretary will adjourn the meeting and the remainder of the agenda will be rescheduled for a future special meeting which shall be open to the public and noticed pursuant to the Brown Act.

Mr. McIntyre performed a roll call of staff, participating remotely were Drew McIntyre (General Manager), Tony Williams (Assistant GM/Chief Engineer), Terrie Kehoe (District Secretary), Julie Blue (Auditor-Controller), and Monica Juarez (Receptionist/Customer Service Assistant). Mr. McIntyre announced also participating remotely were Mark Hildebrand from Hildebrand Consulting, and District Legal Counsel Morgan Biggerstaff.

President Grossi announced for those joining the virtual meeting from the public to identify themselves. In attendance were Ken Levin from the Point Reyes Village Association, Community Land Trust Association of West Marin (CLAM), Coyote Landscape and residents Cindy Morris, Michael McClaskey, Rhonda Kutter and Bill who also joined remotely.

**OPEN TIME**

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

36 **WEST MARIN WATER RATE STUDY WORKSHOP**

37 President Grossi introduced the General Manager, Drew McIntyre to briefly summarize the  
38 process for the rate study. Mr. McIntyre reminded the Board that about a year ago the District  
39 entered into an agreement with Hildebrand Consulting to do a comprehensive water rate study  
40 for the Novato and Recycled Water Service Area. Mr. McIntyre noted that the West Marin Water  
41 Rate Study was being performed to ensure that our rate structure continues to generate revenue  
42 from each class of customer in proportion to the cost to serve each customer.

43 Mr. McIntyre thanked all West Marin Customers for attending the West Marin Rate Study  
44 Workshop. He reviewed the public outreach to date, which included a direct mail through the post  
45 office, an ad in the Point Reyes Light, in addition to an article.

46 Mr. McIntyre stated the rate study presentation will illustrate the drivers that are  
47 necessitating the reasons for the proposed revenue increase and rate structure changes. He  
48 gave a background of the study and its purpose, reminding the customers that North Marin Water  
49 has two water systems with two sets of books, Novato and West Marin. Mr. McIntyre noted a  
50 similar study was completed in Novato in 2020 and the District will be using the same consultant,  
51 Mark Hildebrand.

52 Ms. Blue introduced Mr. Hildebrand from Hildebrand Consulting who presented the draft  
53 2021 West Marin Water Rate Study. She stated after the workshop staff will incorporate updates  
54 and the study will be brought back to the Board at the March 16<sup>th</sup> regular Board Meeting then  
55 reviewed again and used as part of the proposed rate increase Proposition 218 Hearing at the  
56 June 22, 2021 regular Board meeting.

57 Mr. Hildebrand gave a presentation for the draft 2021 West Marin Water Rate Study. The  
58 presentation led into a discussion that included the rate setting process, rate study framework,  
59 enterprise fund revenue/expenses, capital spending and reserves, financial forecast and rate  
60 structure design.

61 During the presentation President Grossi asked if there were any questions from the  
62 Board, or members of the public.

63 Director Joly asked what the Bank of Marin reserve was that was noted on one of the  
64 slides of the presentation. Mr. Hildebrand replied it was the remaining balance on a loan that  
65 was extended for a capital project. Director Joly asked what capital project. Ms. Blue responded  
66 it was for a West Marin loan for the PRE Tank 4A project. She added the balance is down to zero  
67 as of January 31, 2021.

68 During the presentation Mr. Hildebrand proposed changes to the existing Tier 2 and 3  
69 ranges so that they are in line with the water supply coming from Gallagher Well No. 2. Customers  
70 who now get 400 gallons in Tier 1 per day will drop down to 250 gallons. Director Joly stated  
71 there are quite a bit of moving parts to the equation. He noted half of Gallagher Well No. 2 will  
72 get spread over all tiers and the other half will be spread over Tier 2 and Tier 3. Mr. Hildebrand  
73 replied that this was exactly the case. Director Joly asked what the average amount rate increase  
74 is for fixed changes and water use. Mr. Hildebrand replied coming up with an overall average is  
75 hard. Some customers may be impacted more than others. Mark noted previously commercial  
76 summer rates were not as high in Tier 2 and Tier 3 and now they will be. Additionally, those  
77 customers who are in Paradise Ranch Estates will have their surcharge removed now that the  
78 original bond for the system has been paid. Director Joly stated we did similar changes in Novato,  
79 which took effect on October 1, 2020. He noted Novato has already been paying the new rates.  
80 Mr. Hildebrand stated most changes implemented in Novato will apply to West Marin, except they  
81 did not have any PRE type accounts and the hydraulic zones charges were different, especially  
82 in Zone 2.

83 President Grossi asked if there were any more questions from Directors and there were  
84 none. President Grossi opened it up to the public and the following was discussed.

85 Mr. Levin stated the way he figures it the rate it will go up about 40% over five years and  
86 he doesn't know how that will go over with folks in the community. Mr. Hildebrand replied it will  
87 be 34% over five years. Mr. Levin asked what the treatment plant modifications for 2030 were,  
88 noting that it is a big cost to raise money to do that. Mr. Levin stated people in West Marin need  
89 to know what these large costs are for. Mr. Levin also questioned the \$750,000 for the Gallagher  
90 Streambank Stabilization and whether or not the District involved Salmon Protection and  
91 Watershed Network (SPAWN) on this. Mr. McIntyre responded prior to the water rate study the  
92 District projected planned 5% increases for the next five years, but it was reduced to 4.5% for  
93 FY21 recognizing the financial hardship to many customers due to COVID. He added now we  
94 are looking at a 6% increase which is not a significant change historically. Mr. McIntyre also  
95 reviewed the need for planning to replace with existing water treatment plant that will then be over  
96 50 years old and at the end of its useful life. Mr. Levin noted members of the Point Reyes Village  
97 Association will have questions during their next meeting, and asked about the \$750,000 for the  
98 Gallagher Streambank Stabilization Project. Mr. McIntyre responded the project was driven by  
99 2019 heavy flooding in Lagunitas Creek that caused bank failure immediately upstream of the  
100 Gallagher Ranch bridge. He added that this project was necessary to mitigate any future potential

101 damage to the bridge and that grant funding and other local contributions paid for over 50% of  
102 the total project costs. Mr. Levin questioned why we are proposing 18% of the supply will still  
103 come from the Coast Guard Wells, asking when will it be drawn on and how it will be used. Mr.  
104 Hildebrand confirmed 18% of the water was calculated to come from the Coast Guard Wells. Mr.  
105 Levin stated he thought Gallagher Well No. 1 and No. 2 was supposed to replace the Coast Guard  
106 Wells. Mr. McIntyre replied the Coast Guard Wells are still a viable source of water depending  
107 on the particular year. He stated some years it may not be as impacted by salinity as others and  
108 we still use them nevertheless as they are an important supply source. A general discussion  
109 ensued regarding the variability in how each supply well source is used and the importance of  
110 having redundancy.

111 Mr. Levin asked how much NMWD water goes outside the service area. Mr. McIntyre  
112 replied none. Mr. Hildebrand added Mr. Levin may be referring to outside the Improvement  
113 District service boundary area.

114 Director Joly noted this will be a very difficult year for West Marin customers with another  
115 dry year coming. He added, he would also like the people of West Marin to know that during the  
116 fire in Point Reyes the District supplied 1,200,000 gallons of water that the District donated as a  
117 public service, the customers are not charged for that water. Director Joly added one of the  
118 current West Marin projects is the new PRE Tank 4A which will enhance fire protection in the  
119 area, noting we have to plan for this especially from what we saw happen last year.

120 President Grossi announced that since this is a workshop no action will be taken on this  
121 item.

122 Mr. McIntyre announced that he would like to invite customers to go to the water rate  
123 calculator on our website to see what this increase will mean to them.

124 Mr. Hildebrand stated the West Marin Water Rate Study will be reviewed at the March 16<sup>th</sup>  
125 regular Board meeting. He will give the same presentation and will include any proposed  
126 modifications or recommendations. Director Grossi suggested the public and the Board should  
127 get any questions back to staff so staff can prepare an answer by the March 16<sup>th</sup> meeting.

128 **PUBLIC HEARING TO CONSIDER A WATER CONSERVATION ORDINANCE IN THE**  
129 **NOVATO SERVICE AREA – CHANGE PUBLIC HEARING DATE**

130 Mr. McIntyre reported in order to provide sufficient noticing to the public, staff  
131 recommended a revised hearing date of March 16, 2021. He stated this ordinance will allow



flexibility to make updates by resolution in the future with specific reduction levels, water waste and non-essential use prohibition and other changes as needed.

On the motion of Director Joly, and seconded by Director Petterle the Board approved March 16, 2021 regular Board meeting as the date and time to hold a public hearing to consider a Water Conservation Ordinance in the Novato Service Area by the following vote:

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

**PUBLIC HEARING TO CONSIDER AMENDING ORDINANCE 39 IN WEST MARIN SERVICE AREA – CHANGE PUBLIC HEARING DATE**

Mr. McIntyre reported in order to provide sufficient notices to the public, staff recommended a revised hearing date of March 16, 2021. He stated by amending Ordinance 39 it will allow flexibility to make changes to the Ordinance in the future by resolution, which could include, but not limited to; date changes to reflect 2021 dry year conditions and voluntary and/or mandatory percentage reduction levels to match that approved by MMWD.

On the motion of Director Petterle, and seconded by Director Joly the Board approved the March 16, 2021 regular Board meeting as the date and time to hold a public hearing to consider amending Ordinance 39 in the West Marin Service Area by the following vote.

AYES: Director Baker, Fraites, Grossi, Joly and Petterle

NOES: None

ABSTAIN: None

ABSENT: None

**ADJOURNMENT**

President Grossi announced the annual West Marin Water Rate Hearing will be held during the regular meeting scheduled for June 22, 2021. Additionally, he thanked Mr. Levin for all his questions.

President Grossi adjourned the meeting at 7:30 p.m.

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Submitted by

Theresa Kehoe  
District Secretary

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## MEMORANDUM

TO: Board of Directors Date: February 26, 2021

FROM: Drew McIntyre, General Manager

SUBJECT: Gallagher Well No. 2 Report for Gallagher Wells and Pipeline Project: Approve CEQA Addendum to the 2009 Mitigated Negative Declaration (MND)  
r:\folders by job no\6000 jobs\6609.20 new gallagher well #2\bod memos\request approval of ceqa bod memo 2\_26\_21.doc

**RECOMMENDED ACTION:** Staff recommends approval of the Addendum and adoption of a resolution finding the conclusions, impact determinations, and mitigation measures provided in the Addendum are consistent with the previously approved 2009 MND, and would not result in new or more severe impacts beyond those previously identified. Upon Board consideration and approval, Staff will file a Notice of Determination with the County Clerk.

**FINANCIAL IMPACT:** None at this time.

As discussed with the Board at the January 5, 2021 meeting, NMWD prepared and circulated a CEQA Addendum analyzing the impacts of construction and operation of the previously proposed Gallagher Well No. 2 at NMWD's Gallagher Well site in light of the 2009 Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Gallagher Well No. 2. The project now under consideration, like the project approved in 2009, would provide for a total of two wells at the Gallagher Ranch with a combined capacity of 300 gallons per minute (gpm). The Gallagher Well No. 2, as proposed now and in 2009, would tie into the existing Gallagher Well No. 1 raw water transmission pipeline located south of the private Gallagher Ranch access road. Approximately 500 feet of new pipeline would be installed to connect Gallagher Well No. 2 to the existing transmission pipeline.

In 1992, the Board approved a CEQA document evaluating the environmental impacts of a 300 gallons per minute (gpm) well at the Gallagher Ranch. That well, now called Gallagher Well No. 1, was permitted and constructed in that same time period. Gallagher Well No. 1 proved unable to provide the desired 300 gpm pumping capacity, so the District determined to explore drilling a second well at the site.

In March 2009, the North Marin Water District Board of Directors (Board) reviewed and approved an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Gallagher Wells and Pipeline Project which included the addition of a second well at the Gallagher Ranch (aka Well No. 2). At the time of the 2009 CEQA analysis, Gallagher Well No. 1 was not in use or connected to the NMWD water system. The 2009 project proposed a second well near the first

well. Other components described in the 2009 IS/MND for the project have been implemented by NMWD; the point of diversion for Well No. 1 was finalized in 2012, Water Right Permit 19724 was permanently dedicated to instream uses, and the pipeline from the existing well to the existing water treatment plant was built in 2015. However, proposed Gallagher Well No. 2 has not yet been built.

Although the environmental impact of Gallagher Well No. 2 was thoroughly examined in 2009, the passage of time and new evaluation requirements informed the decision to prepare an Addendum to the 2009 IS/MND. As the Board was previously advised, California Code of Regulations, 14 CCR § 15164 Addendum to an EIR or Negative Declaration (b), authorizes the use of an Addendum to an adopted negative declaration "if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred." The Addendum presented to the Board on January 5<sup>th</sup>, which is being presented for formal approval at this meeting, concluded that the Gallagher Well No. 2 project meets these criteria.

The Addendum was circulated for a courtesy 30-day review period to regulatory agencies and interested parties. Two comment letters were received during the 30-day review period, one from Save our Shores and the other from the Regional Water Quality Control Board. NMWD and ESA met with RWQCB staff via video conference February 3, 2021 to answer questions and review comments. Key issue areas in both letters included questions and comments regarding the use of the Addendum, and potential impacts to streamflow and sensitive species habitat associated with well operations. The attached Technical Memorandum (Attachment 1) prepared by ESA and reviewed by legal counsel provides written responses to these comments. Two additional comments were received after the 30-day review period and are included in Attachment 2. No responses were necessary for the latter set of comments. An updated CEQA process timeline schedule is provided in Attachment 3.

Based on the discussions with RWQCB, Mitigation Measure BR-2 has been revised to provide for additional monitoring to confirm that the effects to streamflow are de minimis. Based on the Response to Comments Technical Memorandum and discussions with RWQCB, NMWD has addressed all comments raise to date, and accordingly the Board is being asked to consider approval of the CEQA Addendum.



### RECOMMENDATION

Staff recommends adoption of the attached resolution making findings that the Addendum was prepared in accordance with CEQA Guidelines Sections 15162 and 15164, and that the conclusions, impact determinations, and mitigation measures provided in the Addendum are consistent with the previously approved 2009 IS/MND, and would not result in new or more severe impacts beyond those previously identified, approving the Addendum, and approving the project. Upon Board consideration and approval, Staff will file a Notice of Determination with the County Clerk.

## RESOLUTION \_\_\_\_\_

### **RESOLUTION OF THE BOARD OF DIRECTORS OF NORTH MARIN WATER DISTRICT APPROVING THE ADDENDUM TO THE 2009 INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE GALLAGHER WELLS AND PIPELINE PROJECT, MAKING FINDINGS THAT THE ADDENDUM IS CONSISTENT WITH THE CEQA GUIDELINES AND THE AFOREMENTIONED MITIGATED NEGATIVE DECLARATION, AND APPROVING THE PROJECT.**

WHEREAS, the North Marin Water District ("District") wishes to fully implement the Gallagher Wells and Pipeline Project by constructing Gallagher Well No. 2, thereby providing the ability to meet water supply and water quality requirements of the Point Reyes Water System.

WHEREAS, the District is the lead agency for the Project, and the Board of Directors ("Board") is the decision-making body for the proposed Project.

WHEREAS, prior to implementation of the Project, the District must comply with the California Environmental Quality Act of 1970, as amended, Public Resources Code sections 21000, et seq. ("CEQA").

WHEREAS, the District has caused to be prepared, in accordance with the requirements of CEQA and the CEQA Guidelines (14 Cal. Code Regs. 15000, et seq.), an Addendum to the 2009 Gallagher Wells and Pipeline Project Mitigated Negative Declaration (MND), which MND was approved by the Board in March of 2009. A copy of the Addendum was included as part of the January 5, 2021 Board Meeting Agenda packet and is incorporated herein by this reference. WHEREAS, the Addendum was circulated for a 30-day courtesy review period to agencies and interested parties.

WHEREAS, the District has reviewed and prepared written responses to the two comment letters received, which responses are set forth in the Response to Comments Technical Memorandum, which is attached hereto as Attachment 1 and incorporated herein by this reference, and met with RWQCB staff to review their comments.

WHEREAS, the Board has carefully reviewed and considered the Addendum and the MND together with the proposed mitigation measures, Mitigation Monitoring and Reporting Program for the Project, and has carefully reviewed and considered all other relevant information contained in the administrative record for the Project, including the MND and the above referenced Technical Memorandum.

WHEREAS, based on the foregoing facts, the CEQA facts and findings, mitigation measures, and other findings set forth in this Resolution, and based on staff's recommendations, and public and agency input, the evidence received, and all other evidence in the administrative record, the Board desires to adopt the Addendum to approve the Project.

WHEREAS, all other legal prerequisites to the adoption of this Resolution and the approval of the Project have occurred.

NOW THEREFORE BE IT RESOLVED that the North Marin Water District Board of Directors ("Board") finds that the foregoing recitals are true and correct and further finds, declares, and orders as follows:

#### PROCEDURAL FINDINGS:

1. On March 17 2009, the Board, exercising its independent judgment and analysis: 1) reviewed, and considered the information contained in the 2009 MND and considered the environmental effects and impacts of the project as shown; 2) found that the 2009 MND represents a good faith effort to achieve completeness and full environmental disclosure; and 3) found that the 2009 MND is an adequate informational document, which has provided the Board and the public with full and fair disclosure of potential environmental impacts associated with the project. As part of that action, the Board approved the Gallagher Wells and Pipeline Project, adopted a Mitigation and Monitoring Plan, and filed a Notice of Determination.
3. The District caused to be prepared, and on February 7, 2021 the District circulated, an Addendum to the 2009 MND for a 30-day courtesy review period to agencies and interested parties. The Addendum provides a project description and analysis for the installation and operation of Gallagher Well No. 2 at a location approximately 500 feet north of the previously reviewed location. The Addendum provides technical analysis and concludes there are no new or more severe impacts, and modifies mitigation measure BR-2 to address comments and concerns received.
4. Two comment letters were received during the 30-day review period, one from Save our Shores, and the other from the Regional Water Quality Control Board for Region 2.
4. On March 2, 2021, the Board, exercising its independent judgment and analysis: 1) has reviewed, and considered the information contained in Addendum and the 2009 MND and considered the environmental effects and impacts of the project as shown; 2) finds that the Addendum and the 2009 MND represents a good faith effort to achieve completeness and full environmental disclosure; and 3) finds that the Addendum and the 2009 MND comprise an adequate informational document, which has provides this Board and the public with full and fair disclosure of potential environmental impacts associated with the project.
5. Although no response to the comment letters were legally required, the issues raised in those letters were suitably addressed in the Response to Comments Technical Memorandum, duly supporting the conclusions that there are no new or more severe impacts resulting from changes in the project or to the circumstances under which the project is undertaken, and no new information of substantial importance was presented or otherwise received.

#### SUBSTANTIVE FINDINGS

1. The Board further finds that the Addendum was prepared in accordance with CEQA Guidelines Sections 15162 and 15164, which state an addendum may be prepared if some changes or additions are necessary, but do not result in a new impact or a substantial

increase in the severity of previously identified impacts, such that a subsequent or supplemental MND was not required.

2. The Board further finds that the conclusions, impact determinations, and revisions to the mitigation measures are consistent with the 2009 MND.

NOW THEREFORE, based on the record of this proceeding and the foregoing findings and determinations, the Board of Directors of the North Marin Water District hereby resolves as follows:

1. Based on the above findings, the Board approves the Addendum.
2. The Mitigation Measures and the Mitigation Monitoring and Reporting Program set forth in and approved as part of the 2009 Initial Study/Mitigated Negative Declaration for the Gallagher Wells and Pipeline Project remain in full force and effect with only the changes thereto described in the Addendum.
3. Based on the foregoing, the Board approves the Project.
4. The Board directs the General Manager or his assigns to file a Notice of Determination with the County Clerk.
5. The District Secretary is the custodian of the document or other material which constitute the record of proceedings upon which this Board's decision herein is based. These documents may be found at North Marin Water District, 999 Rush Creek Place, Novato, CA 94954.

\* \* \* \* \*

I hereby certify that the foregoing is a true and complete copy of a resolution duly and regularly adopted by the Board of Directors of NORTH MARIN WATER DISTRICT at a regular meeting of said Board held on the 2<sup>nd</sup> day of March 2021 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

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Theresa Kehoe, Secretary  
North Marin Water District



1425 N. McDowell Boulevard  
Suite 200  
Petaluma, CA 94954  
707.795.0900 phone  
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esassoc.com

# memorandum

date February 25, 2021  
to North Marin Water District  
from Environmental Science Associates  
subject Response to Comments on the NMWD Gallagher Well No. 2 CEQA Addendum

## Introduction and Background

This memorandum has been prepared to respond to comments received by North Marin Water District (NMWD) on the Gallagher Well No. 2 (Project), California Environmental Quality Act (CEQA) Addendum. In 2009, an IS/MND was completed for the proposed Gallagher Well No. 2. The 2009 IS/MND included a pipeline connection for Gallagher Well No. 1 and a proposed location for Gallagher Well No.2. Since completion of the 2009 IS/MND and associated permitting, the NMWD has identified a preferred location for Gallagher Well No. 2 through additional test well locations and groundwater monitoring. The Project and construction of the Gallagher Well No. 2 would increase the reliability of the Point Reyes Water System by allowing production of the quantity of groundwater at the Gallagher Well site to offset production at the Coast Guard Wells that were analyzed in the 2009 Initial Study /Mitigated Negative Declaration (IS/MND). The project capacity is consistent with 300 gpm of production capacity planned for at Gallagher Ranch since the original Gallagher Well No. 1 CEQA documentation in 1989.

## CEQA Process

As a result of the newly proposed location of the Gallagher Well No. 2, NMWD proposed to implement a CEQA Addendum for the new proposed Gallagher Well No. 2 location under CEQA Guidelines (Section §15162 and §15164). According to CEQA Guidelines §15164 (b), the Lead Agency (NMWD) is allowed to prepare an addendum to an adopted negative declaration, such as the 2009 IS/MND, “if only minor technical changes or additions are necessary but none of the conditions described in §15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.”

NMWD determined that the project, as modified, does not trigger any of the conditions described above regarding the preparation of a subsequent negative declaration. As stated in the CEQA Addendum (Appendix A) no new or severe impacts would occur nor would any additional impacts substantially increase the severity of previously identified significant effects.

According to CEQA Guidelines (subsection of §15164 states that “[a]n addendum need not be circulated for public review,” however, a 30-day courtesy review period was extended to regulatory agencies and any other interested parties.

## Comments and Responses

During the courtesy review period (from January 7, 2021 through February 8, 2021), NMWD received two written comment letters on the Project. (See **Table 1**).

In addition to the courtesy public review period, on February 3, 2021, NMWD attended a meeting with the San Francisco Bay Regional Water Quality Control Board staff members to discuss any questions and concerns regarding the Project prior to submitting their comment letter. See Comment Letter 2 and responses below for details.

**TABLE 1**  
**COMMENTS SUBMITTED TO NMWD ON THE CEQA ADDENDUM**

<b>Letter</b>	<b>Commenter</b>	<b>Date submitted</b>
Comment Letter 1	Save Our Seashore (Gordon Bennett)	February 1, 2021
Comment Letter 2	San Francisco Bay Regional Water Quality Control Board (Nicole Fairley)	February 8, 2021



# Save Our Seashore

A 501(c)(3) Charitable Organization (EIN 94-3221625)  
 Founded in 1993 to Protect Marin County's Ocean, Coasts, Estuaries, Watersheds and Creeks  
 40 Sunnyside Dr, Inverness CA 94956 [gbatmuirb@aol.com](mailto:gbatmuirb@aol.com) 415-663-1881

February 1, 2021

## Re: 2021 North Marin Water District (NMWD) Gallagher Wells CEQA Addendum

Save Our Seashore respectfully requests that NMWD withdraw this Project (Gallagher Well #2) and do a comprehensive CEQA analysis of cumulative impacts for reasons cited below:

**Piecemealing:** The Addendum for this Project states *"flow impacts during dry season pump tests indicate discernable, but de minimus alterations in flows during combined pumping of the two wells."* But because the test on Gallagher Well #2 was done *"while [Gallagher] Well #1 was actively pumping,"* the Addendum actually analyzes only the incremental impacts of Well #2 and not the *"combined pumping of two wells."* So, the Project has been piecemealed without an analysis of the cumulative impacts of all wells pumping simultaneously.

1-1

**Changed Conditions:** The Sutro Analysis (Appendix B of the Addendum) takes as a given the operating conditions outlined in NMWD's 2009 Initial Study/Mitigated Negative Declaration (IS/MND), which states that the Gallagher Wells #1 and #2 (emphasis ours) *"would be used to supplement the existing Coast Guard wells, which are the primary water source"* (pg1)...and *"would be used during periods of high tides."* Similarly, the Addendum states that *"the Coast Guard Wells would continue to be in operation whenever water quality conditions allow,"* but there is no quantification of this commitment or trigger specified for the *"conditions allowed."* In fact, during the summer of 2020, Well #1 was not just *"used during periods of high tides,"* but rather was operating continuously.

In contrast, D. McIntyre, NMWD states: *"Our normal mode of operation since 2015 is to operate primarily with the Gallagher Well (100-150 gpm) [gallons per minute] and use one of the Coast Guard Wells to make up for any deficit supply. In the winter months, all demands are typically met solely with the Gallagher Well. However, during the summer months we need to also run one of the Coast Guard wells since the Gallagher Well can only produce 100-150 gpm."*

1-2

Thus, the primary and supplemental wells have switched since the IS/MND. So, what the IS/MND described (but did not quantify) as temporary and intermittent stream impacts from the Gallagher wells are now chronic impacts.

Further, as described in the section below (Potential Intertie Problems), the IS/MND assumption (that flows sufficient to meet minimum requirements at the upstream US Geological Service (USGS) Park gage will always result in flows sufficient to meet minimum requirements at the downstream USGS Pt Reyes gage)...is simply not correct. These changed circumstances require a new cumulative and comprehensive CEQA analysis.

**Other Contradictions to the IS/MND** The IS/MND notes (emphasis ours): *"NMWD is prohibited from diverting water from Lagunitas Creek when...From June 16 through November 1 of any dry year whenever there is less than 6 cfs in the creek as measured at the USGS Park Gauge....These same minimum flows would be required in the section between the Gallagher Wells and the Coast Guard Wells..."* However, the USGS data for June 16-Nov 1, 2020 shows that in the for roughly half those days, the streamflow was less than the 6 cfs minimum, yet Well #1 continued to pump throughout the summer. We have asked NMWD for clarification, but as of the date of this letter, have had no reply.

1-3



**Fair Argument:** The Addendum states “*flow impacts during dry season pump tests indicate discernable, but de minimus alterations in flows.*” We believe this admission represents a “fair argument” of potential impacts to the endangered Coho (*Oncorhynchus kisutch*), the endangered California freshwater shrimp (*Syncaris pacifica*) and to the threatened Steelhead (*Oncorhynchus mykiss irideus*) that are known to live and breed in Lagunitas Creek. Impacts, no matter how small, to endangered and threatened species deserve careful analysis that was not done here.

1-4

**Lack of Consultation:** There was no scoping for either the IS/MND or the Addendum. Neither the IS/MND nor the Addendum list any consultation with the National Marine Fisheries Service that should have triggered a Biological Assessment on the federally threatened and endangered species. Neither the IS/MND nor the Addendum list any consultation with the California Department of Fish and Wildlife regarding state-listed endangered species. Such consultation triggers input into the proposed design of the project and is wholly different from the after-project-design 30-day comment period provided for the Addendum. Further, we believe that the admission that the project results in “*alterations in flows*” triggers the need for a streambed alteration permit under Fish and Game Code Section 1600.

1-5

**Lack of Substantial Evidence:** The Addendum attempts to qualify under CEQA Guideline § 15164 (e) (Addendum to an EIR or Negative Declaration), which states (emphasis ours): “A *brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR...The explanation must be supported by substantial evidence.*” We do not believe the Addendum provides the required “substantial evidence” for numerous reasons outlined below.

1-6

**Minimized Well Impact During Test:** Water extracted from Well #2 during the test was released on site presumably nearby and therefore likely, perhaps within a few hours, percolated down to the water table, which may have minimized the claimed impact from Well #2. Because no tests were done on Well #1, we do not know its impact on creekflow. If the subsurface soils between Well #1 and the creek are highly permeable, then the creekflow impact from Well #1 could be greater, perhaps much greater, than the impact claimed from Well #2. Further, there is a third (“Private Ranch”) well approximately 150 feet from Well #1 that interacts (with discernable but “negligible” impact per D. McIntyre) with Well #1 and thus possibly with the creek. The private well likely operates intermittently but there is no guarantee that its creekflow impact would not change if the private well operated continuously as seemingly intended for Well #1 and Well #2. The combined impact to creekflow from all three wells is cumulative, but impacts from only Well #2 have been studied and those impacts appear to have been minimized. The Sutro Analysis shows no “*substantial evidence*” that would contradict these reasonable possibilities that would almost certainly increase the impact to creekflows from all the wells.

1-7

**Maximized Streamflow During Test** The Sutro Analysis concludes that well impacts are negligible by comparing the measured impacts (0.2 cubic feet per second (cfs) to 0.3 cfs change in streamflow) to the average streamflow during the 7-day test (5.8 cfs to 6.8 cfs per Figure 5). But Figure 4 shows that the test period (Sep 22 - Sept 29) took place during a surge in flows at the Park gage, most likely caused by an upstream release by the Marin Municipal Water District (MMWD) to satisfy the flow requirement mandated by State Water Board Order WR 95-17. So, it is likely that MMWD flows artificially inflated the flow against which the impact was measured

1-8

Further, MMWD’s WR 95-17 mitigation (increased flows) is being used twice...once by MMWD and later by NMWD. Thus, the measured well impact should not be measured against the total flow (natural flow plus MMWD releases), but rather against the total flow less MMWD releases (we have requested flow release data from both NMWD and MMWD, but as of the date of this letter, we have received no reply).



Further still, impact should be measured at the lowest flow during the dry season (4.1 cfs less any MMWD releases), not the average flows during the test period. Aquatic creatures survive above minimum thresholds, which is why WR 95-17 required minimum flows, not average flows.

1-8  
cont.

Thus, the Sutro Analysis reduces the nominator in the impact calculation (by considering the impact from only one of three wells at the site) and also increases the denominator of the impact calculation (by choosing a test period of artificially high flows). Thus, we do not believe the Addendum provides that “substantial evidence” of “negligible” impact.

**Instream Dedication Cannot Mitigate** NMWD water permits and licenses (App #013965B, #025062 and #025079) state that the maximum simultaneous rate of diversion is measured under all NMWD permits and license’s **combined**. Consequently, it appears that the .669 Instream Permit (#025062) can be used to satisfy the dry year reduction, which does not appear to be in accord with NMWD’s 2003 Agreement with Trout Unlimited et al and which may undermine the claim that the .669 Instream diversion can mitigate for the Project.

1-9

**Potential Intertie Trigger Problems** For the period June 15 through November 1, Sutro Figure 4 shows the flows at the Pt Reyes gage were **lower** (average about 5.5 cfs) than flows at the Park gage (average about 6.2). This contrasts with the IS/MND, which states (emphasis ours) “Some additional streamflow enters Lagunitas Creek downstream of the USGS Park Gauge, notably from Devil’s Gulch, Cheda Creek, and Nicasio Creek, so streamflows past the Gallagher Wells site are **higher** than the flows required at the USGS Park Gauge.” But the Sutro Analysis clearly shows that flows at the Park gage are not correlated with flows at the Pt. Reyes gage and the IS/MND assumption (that flows sufficient to meet minimum requirements at the upstream Park gage will also result in sufficient flows at the downstream Pt Reyes gage) is shown to be incorrect by Sutro Figure 4. This raises the question of the adequacy of the trigger for MMWD’s intertie release, which the IS/MND and Addendum both hold out as assurance that NMWD withdrawals will not adversely impact streamflows.

1-10

**Temperature** The Sutro Analysis omits mention of possible temperature impacts from reduced flows. Well #2 (and likely Well #1) will cause withdrawals to come primarily from the colder water at the bottom of the creek, thus raising the temperature of the remaining water. WR 95-17 recognizes the importance of cold water for endangered Coho in Lagunitas, of particularly during low flows and specifies a minimum temperature to be maintained by flow releases from the bottom of Peters Dam: “Permittee shall bypass or release sufficient water from Kent Lake to maintain a mean daily water temperature of 58 degrees Fahrenheit [14.4 C], or less, between May 1 and October 31, as measured at the USGS gage at Taylor State Park. From November 1 through April 30, permittee shall bypass or release sufficient water from Kent Lake to maintain a mean daily water temperature of 56 degrees Fahrenheit [13.3 C], or less, as measured at the USGS gage at Taylor State Park.”

Just as WR 95-17 assumed that minimum required flows at the Park gage would suffice for the same minimum flows at the Pt Reyes gage, then it also seems reasonable that the WR 95-17 minimum required temperatures at the Park gage should also apply at the Pt Reyes gage. But the Reyes gage does not measure temperature and the Park gage measured instantaneous temperature only from 10/9/2003 to 7/27/2006. During that period, the instantaneous temperature exceeded the WR 95 -127 required minimum numerous times (e.g., 8/31/04 at 16 C or 60.1 F; 5/31/05 at 16 C or 60.1 F; and 7/27/06 at 16.5 C or 61.7 F). With diminished flows at the Pt Reyes gage and with Well #1 pumping from the bottom of the creek, then temperatures at the Pt Reyes gage likely exceeded the exceedances at the Park gage.

1-11

Since salmonids avoid high temperature water, this raises the possibility that a salmonid survey downstream of the Gallagher site may find little salmonid use because of the poor habitat resulting from the pumping, rather than the poor habitat being a reason to allow pumping. This points out the need to add temperature monitoring capability at both USGS gages.

**Habitat Impact vs Streamflow Impact** The Sutro Analysis uses streamflow change as a proxy for habitat impact. But habitat impact is a function of **both** streamflow **and** channel shape. A flow change in a steeply sided channel may make a trivial habitat change, but that same flow change in a broad slightly sloping channel or floodplain, could de-water edges or reduce water depth enough to allow increased predation. Since the Pt Reyes gage takes its year-round data from the low flow channel at Lagunitas, there is no way to predict the impact of even small (1/4" to 1/2") water height changes at the gage on the downstream floodplain, where even 1/4" to 1/2" less water could materially reduce the size of the inundation. Further salmonids move up and down the stream in response to environmental conditions, yet neither the IS/MND nor the Addendum have any data on salmonid use of Lagunitas below the Gallagher well site. This points out the need for a stream channel survey and salmonid survey (under normal flow conditions) below the Gallagher wells.

1-12

**Need for the Project is not Documented with Substantial Evidence** The primary stated need for the Well #2 Project is regular summer salinity intrusion. However, this need does not appear to be supported by "*substantial evidence*." According to NMWD (D McIntyre), summer demand is 181 gallons per minute. With Well #1 pumping continuously at 100-150 gpm, then at most 81 gpm that would need to be added by one of the two Coast Guard wells (with capacities of 250 and 300 gpm). Assuming the smaller 250 gpm well, then that 81 gpm could be added by pumping only 7.8 hours per day ( $81/250 \times 24$ ), presumably more than enough time to avoid high tide impacts and thus the need for the Well #2 Project. Conversely, if the larger of the Coast Guard wells pumped 12 hours per day (presumably enough time to avoid high tide impacts) then its daily production would be 150 gpm out of 181 gpm needed. The remaining 31 gpm could then be added by Well #1 pumping at 100 gpm for 7.4 hours per day at night when streamflows are higher.

1-13

**Reasonable Alternatives Not Analyzed** According to the 12/9/20 Pt Reyes Light article NMWD tests salinity only once per week. If instead salinity data were collected more frequently (e.g., hourly), that may allow NMWD to more carefully time its withdrawals to avoid salinity and thus reduce or eliminate the need for the Well #2 Project. Also not discussed is the large increase in water use for landscaping during the dry season when creek flow is so low that it allows salinity intrusion. If dry season landscape water were better conserved, this might reduce or eliminate the need for Well #2. This points out the need for NMWD to analyze its customers' winter use and project winter use onto summer use in order to isolate landscape use. Further omitted as a possible solution to the stated need is increased storage capacity that would allow the two Coast Guard Wells to pump into added storage during off tides with Well #1 running only during high tides. Increased storage could accommodate peaks within daily use and potentially reduce or eliminate the need for the Well #2 Project. Well #2's potential impact to threatened and endangered species impacts is unreasonable if there are feasible alternatives that could replace the Well #2 Project and its impacts

1-14

**In sum**, the piecemealing, the changed circumstance from the IS/MND and omissions and errors in the Sutro Analysis and Addendum do not provide "*substantial evidence*" to support its conclusion that "*the current project would not result in more severe impacts than those disclosed in the 2009 IS/MND*." It is unfortunate that NMWD seemingly got inadequate environmental and permitting advice on this Project. Problems with this Project could have been addressed if NMWD had presented its preliminary project design to the Lagunitas Technical Advisory Committee (Lag TAC), which (with its agency and NGO members) reviews many salmonid-related projects in the Lagunitas watershed. We would encourage NMWD to consider joining the Lag TAC or at least presenting its preliminary designs for informal but informed comment by the Lag TAC. Until then, we respectfully request that NMWD withdraw this Project and do a proper CEQA analysis of cumulative impacts.

1-15



President, Save Our Seashore and Lag TAC member

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## Comment Letter 1: Save Our Seashore (Gordon Bennett)

**Comment 1-1: Piecemealing.** Pumping tests were conducted while Gallagher Well No. 1 was operating in order to review the cumulative drawdown effect of both wells pumping simultaneously. (See response to Comment 2-8 below.) As such, the analysis does not piecemeal well operations. As noted on Page 2 of the Groundwater and Streamflow Response Analysis prepared by Sutro Science, LLC (Sutro Report), the 7-day constant-rate aquifer test of 140 gpm at Test Well NP-5 was conducted while Gallagher Well No. 1 was actively pumping. According to data recorded by the NMWD's Supervisory Control and Data Acquisition (SCADA) system, between September 18 and October 1, 2020, the flow output from the Gallagher Well No. 1 ranged from about 90 to 134 gallon per minute (gpm).

Additionally, the private domestic ranch well located 163 feet east of Gallagher No. 1 cycled on during periods of domestic demand throughout the same period. Thus, the additional groundwater withdrawal from the Test Well NP-5 combined with pumping from the Gallagher Well No. 1 and the private domestic ranch well represents the most conservative testing parameters and a cumulative condition that exceeds actual potential operating conditions (i.e., under current maximum summer demand conditions the average total supply pumped from Gallagher Ranch would average ~ 180 gpm). With respect to impacts associated with pumping operations, the cumulative effect of Gallagher Well No.1, Gallagher Well No. 2, and the private onsite well has been demonstrated in the pumping test, which indicates de minimus changes in flows in Lagunitas Creek. Therefore, the discernable impacts have been demonstrated to be less than significant, and the project's potential contribution to cumulative impacts is not cumulatively considerable and less than significant.

**Comment 1-2: Changed Conditions.** NMWD well operations are optimized to meet water supply and water quality demands in the Pt. Reyes System. All well operations are under NMWD's water rights. The Coast Guard Wells are considered a primary supply source for NMWD's Point Reyes System, and those Wells will continue to be operated as primary supply wells in concert with Gallagher Well No. 1, and the proposed Gallagher Well No. 2 in order to meet water supply and water quality needs of the Point Reyes Station system. This is consistent with the original intent of the wells as described in the 2009 MND. (See response to Comments 2.5, 2.6, and 2.7 below.) With respect to impacts associated with pumping operations, the cumulative effect of Gallagher Well No.1, Gallagher Well No. 2, and the private onsite well has been demonstrated in the pumping test, which indicates de minimus changes in flows in Lagunitas Creek. Therefore, the discernable impacts have been demonstrated to be less than significant, consistent with the 2009 MND, irrespective of individual well operations, which have been and will necessarily be dependent upon annual and seasonal conditions within the watershed.

**Comment. 1-3: Other Contradictions to the IS/MND.** This comment indicates that flows were below 6 cfs between the Gallagher Gage and the Coast Guard Wells and fell below 6 cfs for about half the period between June 18 and November 1, and indicates that NMWD pumping should have ceased when flows are less than 6 cfs between the Gallagher Gage and the Coast Guard Wells. As discussed in the Sutro Report on Page 4, stream flow in Lagunitas Creek can fluctuate due to diurnal changes attributed to evapotranspiration, irrigation runoff, pumping from private domestic or irrigation supply wells, increased runoff, leachfield flows, stream diversions, or operational anomalies at the gage itself, such as debris accumulation or its removal. During the time period noted by the commenter, the Point Reyes Gage was fluctuating for some reason and was not providing consistent and accurate readings: USGS did not have an explanation for this fluctuation. **Figure 1** and **Figure 2** provided below shows that the 3-4 cfs drops in flow were temporary in nature and then recovered. **Figure 3** also provides additional flow information from the last three summers, and shows an exceptionally low flow in the summer of 2020 when compared to summer/fall conditions in 2019 and 2018. Also see response to Comment 2-9 below.

Operationally, on a daily basis, Marin Water relies on the USGS real-time SPT stream gage website ([https://waterdata.usgs.gov/ca/nwis/uv?site\\_no=11460400](https://waterdata.usgs.gov/ca/nwis/uv?site_no=11460400)) to monitor flow conditions and adjust releases from Kent Lake to ensure compliance with the minimum flow requirements of Order WR95- 17. It is important to note that the real-time data provided on this website are considered “provisional” by USGS, and are subject to retroactive changes once the data are “approved” for publication some months later. As a result, the approved USGS flow record may indicate that stream flows in Lagunitas Creek were occasionally slightly below the minimum required flows. However, the real-time flows (i.e. provisional data) that were used by Marin Water operators to determine Kent Lake releases for any given day were within the required limits at the time.

Figure 1

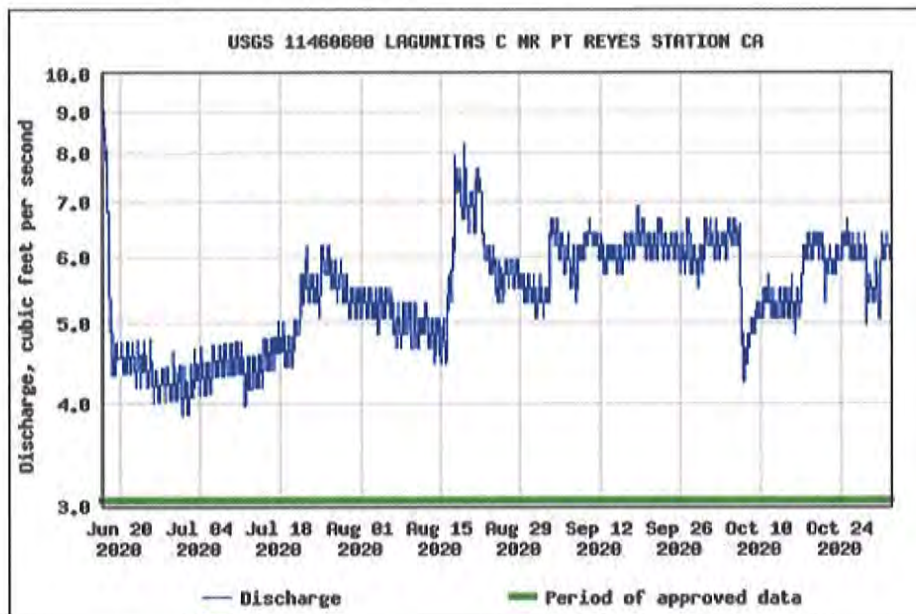


Figure 2

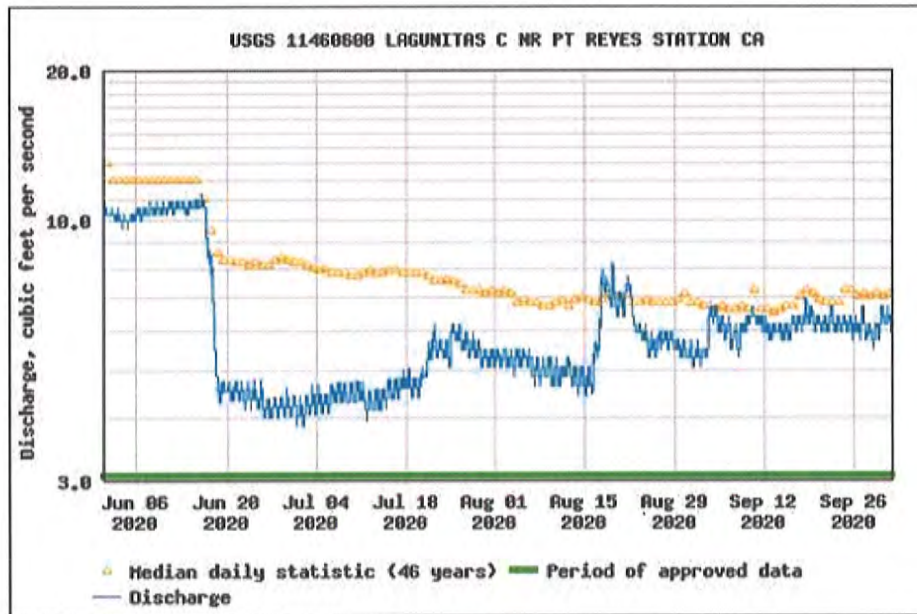
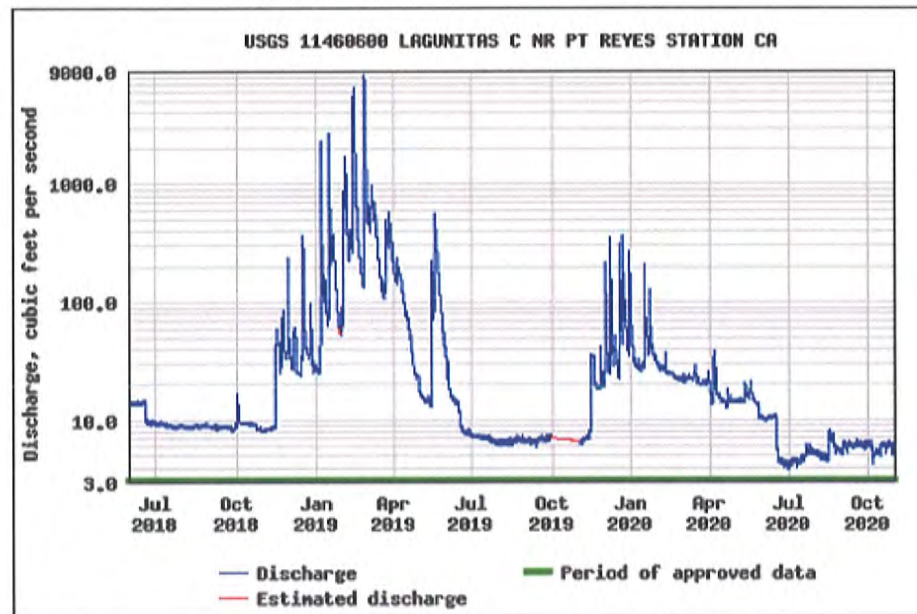


Figure 3



**Comment 1-4: Fair Argument.** Although discernable, the changes in water surface elevation as shown at USGS Gallagher Gage were de minimus. The fact that gage data was able to discern a reduction of approximately 0.3 cfs through careful analysis of the data does not in and of itself represent an impact to sensitive species habitat. As discussed in the Sutro Report on Page 4, stream flow in Lagunitas Creek can fluctuate due to diurnal changes attributed to evapotranspiration, irrigation runoff, pumping from private domestic or irrigation supply wells, increased runoff, leachfield flows, stream diversions, or operational anomalies at the gage itself, such as debris accumulation or its removal. Releases or flow reductions at Peters Dam on Kent Lake also affect flow in Lagunitas Creek. These sorts of fluctuations in flow are captured on the gage data graphs available from the USGS website<sup>1</sup>. Depending on the factors affecting the flow, the fluctuations can be recorded as abrupt, temporary changes or gradually increasing or decreasing trends. The discernible decrease in flow observed at the Point Reyes Gage was about 0.3 cfs or about 140 gpm, which is the approximate constant pumping rate throughout the aquifer test at Test Well NP-5, which included cumulative operations of all three wells. As further discussed below, changes in cfs of this magnitude would not have an effect on sensitive species habitat. (see response to *Comments 1.11 and 1.12*). Thus, even during worst case flow conditions, operations of both wells did not result in changes in stream flow at scales sufficient to affect sensitive species habitat.

CEQA Guidelines Section 15064, *Determining the Significance of the Environmental Effects Caused By A Project*, indicates that the decision as to whether a project may have one or more significant effects shall be based on substantial evidence in the lead agency's record. Section 15064(f)(7), indicates that while the provisions regarding preparation of supplemental CEQA documentation (Sections 15162, 15163 and 15164) apply when the project being analyzed is a change to, or further approval for a project for which a negative declaration was previously adopted, under case law, the fair argument standard does not apply to determination of significance pursuant to Sections 15162, 15163, 15164.

**Comment 1-5: Lack of Consultation.** The extent of scoping or consulting regarding the 2009 IS/MND is not legally relevant, and scoping is not required as part of the preparation of an Addendum. Nonetheless, the addendum was specifically circulated to California Department of Fish and Wildlife and NOAA Fisheries for review and comment. Formal consultation under the Endangered Species Act or the California Fish and Game Code is not required given the minute changes in stream flow that are associated with the project. As discussion in the Addendum, CDFW reviewed the project as part of the 2009 IS/MND and did not regulate the project under Fish and Game Code Section 1600. No formal comments were received from CDFW or NOAA Fisheries in response to the courtesy circulation of the addendum.

**Comment 1-6: Lack of Substantial Evidence.** NMWD has entered substantial evidence into the administrative record to support the use of an Addendum to the MND. A response to each of the items raised by the commenter is provided below. Substantial evidence as defined in CEQA Section 15384 (a,b) means enough relevant information and reasonable inferences from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached. Whether a fair argument can be made that the project may have a significant effect on the environment is to be determined by examining the whole record before the lead agency. Argument, speculation, unsubstantiated opinion or narrative, evidence which is clearly erroneous or inaccurate, or evidence of social or economic impacts which do not contribute to or are not caused

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<sup>1</sup> [https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb\\_00060=on&cb\\_00065=on&format=gif\\_stats&site\\_no=11460600&period=&begin\\_date=2020-09-27&end\\_date=2020-10-01](https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb_00060=on&cb_00065=on&format=gif_stats&site_no=11460600&period=&begin_date=2020-09-27&end_date=2020-10-01)



by physical impacts on the environment does not constitute substantial evidence. Substantial evidence shall include facts, reasonable assumptions predicated upon facts, and expert opinion supported by facts.

**Comment 1-7: Minimized Well Impact During Test.** As noted on Page 2 of the *Groundwater and Streamflow Response Analysis* prepared by Sutro Science, LLC (Sutro Report), the 7-day constant-rate aquifer test at Test Well NP-5 was conducted while Gallagher Well No. 1 was actively pumping. According to data recorded by the NMWD's Supervisory Control and Data Acquisition (SCADA) system, between September 18 and October 1, 2020, the flow output from the Gallagher Well No. 1 ranged from about 90 to 134 gallon per minute (gpm). Additionally, the private domestic ranch well located 163 feet east of Gallagher No. 1 cycled on during periods of domestic demand throughout the same period. The additional groundwater withdrawal from the Test Well NP-5 combined with pumping from the Gallagher Well No. 1 and the private domestic ranch well represents the most conservative testing parameters and thereby allowed the evaluation of cumulative impacts. Previous aquifer testing has indicated that pumping at Gallagher Well No. 1 has only a minor effect on groundwater levels near the Test Well NP-5 as evidenced by negligible drawdown (less than 0.05 feet) in observations wells NP-2 and NP-3.<sup>2</sup>

**Comment 1-8: Maximized Streamflow During Test.** As discussed in the Sutro Report on Page 4, stream flow in Lagunitas Creek can fluctuate due to diurnal changes attributed to evapotranspiration, irrigation runoff, pumping from private domestic or irrigation supply wells, increased runoff, leachfield flows, stream diversions, or operational anomalies at the gage itself, such as debris accumulation or its removal. Releases or flow reductions at Peters Dam on Kent Lake also affect flow in Lagunitas Creek. These fluctuations in flow are captured on the gage data graphs available from the USGS website<sup>3</sup>. Depending on the factors affecting the flow, the fluctuations can be recorded as abrupt, temporary changes or gradually increasing or decreasing trends. Figure 4 of the Sutro Report shows instances of flow releases from Kent Dam and Shift-Adjusted Ratings<sup>4</sup> made to the gage data by the USGS. The comment incorrectly asserts that "the test period (Sep 22 – Sep 29) took place during a surge in flows at the Samuel P Taylor Gage, most likely caused by an upstream release by the Marin Municipal Water District..." According to NMWD, MMWD increased released flows from Kent Lake on July 23, August 17, and September 1, and October 16. These increases in flow are evident on Figure 4 of the Sutro Report at both the Samuel P Taylor Gauge and the Point Reyes Gage.

As previously noted in Comment 1-3, operationally, on a daily basis, Marin Water relies on the USGS real-time SPT stream gage website ([https://waterdata.usgs.gov/ca/nwis/uv/?site\\_no=11460400](https://waterdata.usgs.gov/ca/nwis/uv/?site_no=11460400)) to monitor flow conditions and adjust releases from Kent Lake to ensure compliance with the minimum flow requirements of Order WR95-

<sup>2</sup> PES Environmental Inc. (PES), 2020b. Supplemental Exploration for Potential Groundwater Supply Well. Gallagher Ranch Property – North Pasture Area, Gallagher Well Project, Point Reyes Station, California. October 28, 2020 Page 2/9.

<sup>3</sup> [https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb\\_00060=on&cb\\_00065=on&format=gif\\_stats&site\\_no=11460600&period=&begin\\_date=2020-09-27&end\\_date=2020-10-01](https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb_00060=on&cb_00065=on&format=gif_stats&site_no=11460600&period=&begin_date=2020-09-27&end_date=2020-10-01)

<sup>4</sup> Stage-discharge relations (ratings) are usually developed from a graphical analysis of numerous current-meter discharge measurements (sometimes called calibrations). All discharge measurements are compiled and maintained in a data base. Some measurements indicate a change in the rating, often due to a change in the channel or riparian vegetation. Such changes are called shifts; they may indicate a short- or long-term change in the rating for the gage. Applying these shifts to a rating is called a Shift-Adjusted Rating. Shifts are either positive or negative, depending on whether the changed values are added to or subtracted from the recorded gage height as it is adjusted from the base rating. Possible causes for negative shifts include fill or deposition in the channel, temporary dams (natural or human-made), seasonal vegetative or algal growth, and debris jams while positive shifts can be caused by scour, gravel mining, and clearing of debris or vegetation from channel either by floods or humans (USGS: <https://waterdata.usgs.gov/nwisweb/local/state/ca/text/whatisarating.html#:~:text=Some%20measurements%20indicate%20a%20change,called%20a%20Shift%2DAadjusted%20Rating.>)

17. It is important to note that the real-time data provided on this website are considered “provisional” by USGS, and are subject to retroactive changes once the data are “approved” for publication some months later. As a result, the approved USGS flow record may indicate that stream flows in Lagunitas Creek were occasionally slightly below the minimum required flows. However, the real-time flows (i.e. provisional data) that were used by Marin Water operators to determine Kent Lake releases for any given day were within the required limits at the time.

No MMWD flow releases or USGS shift adjustments were made during the constant-rate aquifer test at Test Well NP-5 between September 22 and September 29, 2020. As shown on Figure 6 of the Sutro Report, average flows in Lagunitas Creek as measured by the Point Reyes Gage remained stable, fluctuating within typical margins, slightly above 6 cubic feet per second (cfs) at the start of the pump test and decreasing to just below 6 cfs during the latter part of the test. Similarly, gage height (Figure 7 of the Sutro Report) remained steady [generally between 0.97 feet and 0.99 feet (0.02 feet variation) or a difference of about one-quarter of an inch] through the aquifer test period. Based on the dates of the known inputs (releases) to Lagunitas Creek and the recorded shift adjustments made by the USGS, it is evident that stream flows were not increasing in Lagunitas Creek at the Point Reyes Gage during the constant-rate aquifer test (between September 22 and September 29, 2020) and the results of the stream response analysis or potential impacts of the aquifer test therefore were not masked. Additional evidence to support this is the direct correlation between pumping rate during the test and the decrease in stream flow; the discernible decrease in flow observed at the Point Reyes Gage was about 0.3 cfs or about 140 gpm, which is the approximate constant pumping rate throughout the aquifer test at Test Well NP-5.

**Comment 1-9: Instream Dedication Cannot Mitigate.** The comment first notes that “NMWD water permits and licenses state that the maximum simultaneous rate of diversion is measured under all NMWD permits and license’s combined.” This is generally correct,<sup>5</sup> although License 4324B goes on to state that “[i]n a dry year, the equivalent of such continuous flow allowance for any 30-day period may be diverted in a shorter time provided there is no interference with other rights and instream beneficial uses and provided further that all terms and conditions protecting instream beneficial uses are observed.”

The comment next asserts that “the .669 Instream Permit (#025062) can be used to satisfy the dry year reduction,” presumably referring to the diversion limitations described in the previous paragraph, but then asserts – without explanation – that doing so “does not appear to be in accord with NMWD’s 2003 Agreement with Trout Unlimited et al and which may undermine the claim that the .669 Instream diversion can mitigate for the Project.” These assertions do not raise an issue cognizable under CEQA, but the assertions are incorrect. NMWD has fully complied with the provisions of the referenced Agreement concerning the instream dedication by “fil[ing and successfully pursuing a] petition to temporarily change the place of use and purpose of use ... to the purpose of preserving or enhancing wetlands habitat, fish and wildlife resources in Lagunitas Creek,” leading to the issuance of an Amended Permit in 2013 making the required dedication. Further, NMWD has complied with the provisions requiring it to enact a Water Shortage Contingency Plan applicable to its West Marin service area to “further reduce water usage in response to dry year conditions.”

**Comment 1-10: Potential Intertie Trigger Problems.** The NMWD-MMWD Interconnection agreement provides the ability to offset demonstrable changes in flow conditions related to NMWD water rights. However,

<sup>5</sup> It is stated in NMWD’s two permits – Permit 19724 (referenced as “App #25062”) and 19725 (referenced as “App #25079”) that “[i]n a dry year, the maximum simultaneous rate of diversion under this permit and the rights pursuant to Application 13965B and [the other permit] shall not exceed 1.18 cubic feet per second.” A similar limitation is stated in License 4324B (referenced as “App #013965B”) before the additional qualification stated in the text.



release requests would be equivalent to and limited by NMWD's water rights. The Interconnection agreement does not guarantee flows of 6 cfs at the Gallagher Well site, nor does Water Rights Order 95-17 mandate such flows at any location other than the Park Gauge. However, if reductions in flow attributable to NMWD operations result in observed reductions in stream flow, the Interconnection agreement remains an available mechanism to offset those observed reductions by requesting additional release of flows from MMWD. Please refer to RWQCB Comment 2-14 for further discussion of the Interconnection agreement and the further modifications of Mitigation Measure BR-2.

**Comment 1-11: Temperature.** Reductions in flow of the magnitude identified in the hydrologic analysis would not affect temperature within the water body. Temperature under WR 95-17 is measured at the Park Gauge. See additional discussion regarding habitat effects. NMWD is not responsible for temperature monitoring on Lagunitas Creek.

The commenter is correct to note that access to cold-water habitat is an essential part of salmonid life history; particularly for steelhead who often rear over the summer period in isolated, disconnected pool habitats. However, the hydrologic analysis demonstrates that the effect of the proposed well operation at most would have de minimis impacts on the aquifer such that the associated changes in the rate of groundwater infiltration would not rise to a level sufficient to significantly impair aquatic habitat by exposing fish to elevated water temperatures. At present, the Lagunitas Creek watershed is not a system where elevated water temperatures are perceived to be a threat to salmonid abundance. The NMFS recovery plan for central California coast steelhead and for central California coast Coho does not identify water temperatures as one of the primary limiting factors affecting abundance of these runs within the watershed.<sup>6,7</sup> Similarly, the Lagunitas Creek Stewardship Plan fails to identify water temperatures as a significant impairment to aquatic habitat.<sup>8</sup> That is, outside of extended dry periods, salmonids are unlikely to be exposed to water temperatures above a threshold of concern.

Although the aforementioned pump test documented a slight decrease in gage height and discharge, it is likely that these slight reductions would have equilibrated had the test been allowed to continue, because the aquifer is transmissive. The transmissibility of the aquifer suggests that any impacts to the rate of groundwater infiltration downstream of pump operation would be temporary and negligible, and therefore that the contemplated pumping regime would at most have a limited effect on instream water temperature. Additionally, because the pump test was conducted during a dry year and under seasonal low flows, the small observed reductions in gage height and streamflow can be viewed as a worst-case condition. It is likely that in times of higher creek flows and elevated groundwater levels (i.e., most periods of most years), continued pumping at the site would not register a discernable response in the creek. Please refer to Response 2-14 regarding revisions to the hydrologic design plan to incorporate pre and post project monitoring to ensure that adverse aquatic ecosystem impacts are less than significant.

**Comment 1-12: Habitat Impact vs. Streamflow Impact.** The commenter is correct to note that impacts to aquatic habitat need to be viewed as a result of not just reduction in streamflow but how those reductions interact with channel morphology. Importantly, as described under the response to *Comment 1.11*, the observed reduction

<sup>6</sup> National Marine Fisheries Service (NMFS), 2016. Final Coastal Multispecies Recovery Plan. National Marine Fisheries Service, West Coast Region, Santa Rosa, California.

<sup>7</sup> National Marine Fisheries Service (NMFS), 2012. Final Recovery Plan for Central California Coast coho salmon Evolutionarily Significant Unit. National Marine Fisheries Service, Southwest Region, Santa Rosa, California.

<sup>8</sup> Marin Municipal Water District (MMWD), 2011. Lagunitas Creek Stewardship Plan. Final. June 2011.

in gage height and streamflow during the pump test were extremely minor, resulting in an observed reduction in streamflow by 0.2 – 0.3 cfs and with a reduction in gage height of approximately one-quarter of an inch. Changes of this magnitude, representing a worst-case condition and below the accuracy of the USGS gage collecting the data, would not result in significant impacts on salmonid habitat downstream of the well site. Please refer to Response 2-14 regarding revisions to the hydrologic design plan to incorporate pre and post project monitoring to ensure that adverse aquatic ecosystem impacts are less than significant.

**Comment 1-13: Need for the Project is not Documented by Substantial Evidence.** NMWD has been identifying the need for additional pumping capacity to address salinity intrusion since the original CEQA analysis of Gallagher Well No. 1 in 1989, and salinity intrusion affecting water quality at the Coast Guard wells has been well documented. There is no requirement under CEQA for a project need to be documented by substantial evidence. Rather, agencies are required to identify project objectives to be reviewed by decision making bodies in the context of their discretionary actions to dedicate public funds. The hypothetical pumping scenarios proposed in Comment 1-13 are unrealistic because the salinity situation is far more complex than avoiding high tide impacts. In addition, the proposed pumping regime is incompatible with operational protocols developed to ensure continuous and reliable service for the customers that depend upon potable water service for their basic health and safety needs. In any event, the need for a well field capable of pumping 300 gpm of low salinity water on a consistent basis was established by the 2009 IS/MND; since that time the salinity impacts at the Coast Guard Wells have only increased in frequency, length, and severity.

**Comment 1-14: Reasonable Alternatives Not Analyzed.** As discussed in response to the Comment 1-13, the sort of pumping regime advocated by the commenter is not feasible. Further, saline intrusion is occurring on a seasonal basis, not on a tidal basis; this condition necessitates the need for additional groundwater supplies that are not subject to salinity intrusion. The magnitude of storage necessary would be infeasible due to the large cost and small customer base that would need to bear the cost. Water conservation efforts have effectively hardened water demands, largely exhausting the potential to treat conservation as a feasible alternative to the new Project. Water demand in the Pt. Reyes Service Area has reduced approximately 40 percent as compared to usage at the time of the 2003 agreement, and implementation of the Water Shortage Contingency Plan will result in additional reductions in the use of water for landscaping irrigation.

**Comment 1-15: Reasonable Alternatives Not Analyzed.** The foregoing responses establish that the environmental (and hydrologic) analysis was not “piecemealed” and did not contain omissions or errors; the Addendum provides ample – and substantial – evidence that the current iteration of the project would not result in more severe impacts than those analyzed and discussed in the 2009 IS/MND. As previously noted, impacts to sensitive species habitat are less than significant.

The commenter closes with the suggestion that NMWD should obtain “informal but informed comment” from the Lagunitas Creek Technical Advisory Committee. Please note that, as discussed in greater detail in the response to Comment 2-14, Mitigation Measure BR-2 is being revised to add the following text: “NMWD will continue to work with agencies and stakeholders to update the hydrologic design plan to monitor resulting flow levels and meet the mitigation standard, and will include analysis of other critical parameter.”



## San Francisco Bay Regional Water Quality Control Board

*Sent via electronic mail: No hard copy to follow*

February 8, 2021

North Marin Water District  
999 Rush Creek Pl  
Novato, CA 94945  
Attn.: Drew McIntyre  
Email: [dmcintyre@nmwd.com](mailto:dmcintyre@nmwd.com)

**Subject: Comments on the North Marin Water District Gallagher Wells and Pipeline Project - Gallagher Well No. 2 Installation: CEQA Addendum, dated January 6, 2021**

Dear Mr. McIntyre:

Thank you for the opportunity to comment on the CEQA Addendum, dated January 6, 2021, for the North Marin Water District Gallagher Wells and Pipeline Project – Gallagher Well No. 2 Installation (Project). We recognize that the CEQA Addendum (Addendum) was prepared to analyze and address the minor technical changes or additions to the Project that have arisen since the 2009 Initial Study Mitigated Negative Declaration (2009 IS/MND) was adopted for the Project.

It is our understanding, however, that since the 2009 IS/MND was adopted, some of the Project's underlying circumstances and baseline assumptions may have substantially changed and that new information of substantial importance has been realized. For these reasons, we are providing the following comments to: (1) clarify the current circumstances regarding the wells; (2) note our concerns regarding the technical analysis included in the Addendum; and (3) provide our recommendations for further analysis that we believe is needed to accurately determine the potential environmental effects of the Project on the valuable and sensitive aquatic habitat and species of Lagunitas Creek.

We understand the complexity of ensuring safe drinking water while balancing species and habitat concerns as well as the continually changing effects of climate change. Our intent is to work collaboratively with NMWD to fully evaluate the aquatic resource concerns and ensure the approach taken for avoiding and minimizing impacts of the proposed Project is the most informed and inclusive alternative for all points of interest.

### Background

The Addendum was prepared to address minor technical refinements made to the proposed second well, located upstream of Point Reyes Station on an NMWD

JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

2-1

2-2

easement at Gallagher Ranch (Gallagher Well No. 2). The refinements include: (1) the slight adjustment in the proposed well No. 2 location; and (2) the information produced from the *Groundwater and Streamflow Response Analysis*. The Response Analysis was used as the basis for determining if any changes or additions to the evaluation of environmental impacts included in the 2009 IS/MND are warranted. The Addendum is considered appropriate due to the conclusion that no substantial changes have occurred to the proposed Project or to the underlying Project circumstances, nor has any new information of substantial importance been realized since the original 2009 IS/MND. Furthermore, the Addendum and its associated hydrogeologic studies concludes that the proposed Gallagher Well No. 2 will not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

2-2  
cont.

## Water Board Comments

### Comment 1: Clarify Project Circumstances

A news item titled "Salinity Intrusion in West Marin System Source Wells" was posted on NMWD's website on August 20, 2020, and describes the issues with operating two NMWD wells located near the former Coast Guard housing property in Point Reyes Station (Coast Guard Wells) due to unprecedented salinity intrusion. It also describes NMWD's approach to correct this situation by working to construct additional sources of water that are not prone to salinity intrusion. It identifies one additional source that they hope to have constructed and available for water supply in 2021.

We understand that salinity intrusion is becoming a more frequent and significant issue for the use of the Coast Guard Wells. However, the circumstances under which the 2009 IS/MND was adopted are described in the following statements:

The 2009 IS/MND (pg. 2) states, "*the Coast Guard Wells largely have good water quality, are reliable during most months, and have ample recharge, the Coast Guard Wells will continue to be the primary supply*".

The 2009 IS/MND (pg. 3) states, "*this new water source [Gallagher Well No. 2] would be used during periods of high tides, avoiding saltwater intrusion into the existing primary supply wells [Coast Guard Wells]. By establishing a reliable **emergency backup source** of water upstream of the high tide water influences of Tomales Bay, water service reliability will increase*".

The 2009 IS/MND was adopted under the circumstances that Gallagher Well No. 2's expected use would be only during flooding and high tides. The Addendum does not discuss current or future use of Gallagher Wells No. 1 & 2. It is our understanding that the frequency and consistency of use of the upstream Gallagher Well No. 1 may have changed to be more consistent pumping during summer low flow periods in recent years and this may also change the expected use of Gallagher Well No. 2. Additionally, these operations may no longer be associated directly with the tides and flooding at the Coast Guard Wells location as indicated in the 2009 IS/MND. Please address the following

2-3

2-4

questions to clarify if the circumstances under which the project was undertaken may have substantially changed:

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2-4  
cont.

- a. Are the Coast Guard Wells still considered the primary supply? ] 2-5
- b. Has the pumping regime changed from pumping primarily during high tide cycles and flooding to constant pumping during drought and/or other conditions, such as low summer flows, at Gallagher Well No. 1 in response to increased salinity intrusion at the Coast Guard Wells? ] 2-6
- c. How will Gallagher Well No. 2 be operated in the future in combination with Well No. 1 and the Coast Guard Wells, particularly with respect to climate change induced sea level rise? ] 2-7

**Comment 2: Groundwater and Streamflow Response Analysis in Appendix B (Report) of the Addendum**

It is our concern that multiple variables that are essential to performing an accurate and representative pump test, were left out of the analysis. Please address the following questions and comments:

- a. The Report did not include any discussion on the withdrawals and operations of Gallagher Well No. 1 during the 7-day pump test or the entire study period. Please clarify the operations of Gallagher Well No. 1 during the study period and how it potentially relates or effects the pump test for Well No. 2. ] 2-8
- b. The Report did not consider identifiable upstream flow input. The 7-day test seemed to have overlapped with the timing of an MMWD flow release from the upstream reservoir, when flows at the SPT gage were increasing over the test period. This could mask ability to detect changes at the Gallagher Wells due to pumping. Please clarify if there are variable inputs for the 5 miles of upstream length that could be identified, controlled, or accounted for in the study to ensure the results are specific and the most informative. ] 2-9
- c. The Report states testing occurred during "worst case summer drought conditions" but Figure 4 data at SPT gage indicates that the highest streamflow during the summer occurred during the pump test period (6.6 - 7 cfs). Please clarify the rational for considering this representative of the worst case of summer drought streamflow conditions. ] 2-10
- d. Please discuss the rational for why the location of the Gallagher Well site stream gage is adequate for providing accurate data on the Wells. ] 2-11
- e. The Report did not consider or report the withdrawals from Gallagher Well No. 1 in combination with Well No. 2 during the 7-day pump test or the entire study period to evaluation cumulative impacts of additive withdrawals on streamflow. ] 2-12

Research has found that salmonids preferentially use “refugia” areas in streams where there are pockets of colder water from groundwater recharge. Therefore, if the wells are operated in a more consistent manner during the summer months, different than presented in the 2009 IS/MND, and/or the required flows have not been maintained in accordance with Mitigation Measure BR-2, temperature impacts on stream and aquatic life may be significant. Additional analysis should incorporate a discussion of the future quantitative limits of combined pumping from both wells to ensure the cumulative impacts are adequately addressed. The previous 2009 IS/MND and Addendum incorporate qualitative description of pump operations which do not allow adequate cumulative impact analysis as operations evolve over time with changing climate conditions.

2-13

### **Comment 3: Sufficiency of Mitigation Measure BR-2 for Mitigating Impacts to Aquatic Environment**

The Addendum indicates that the 2009 IS/MND and Addendum additions (Appendix B) sufficiently evaluate potential impacts to streamflow, aquatic life and habitat, and water quality (aquatic environment) in Lagunitas Creek due to the operations of Gallagher Wells No. 1 and 2. Further, it concludes that Mitigation Measure BR-2 remains adequate for mitigating potential reduced streamflow impacts to the aquatic environment. Our review of the Addendum indicates that, as currently implemented, Mitigation Measure BR-2 is not consistently ensuring that instream flows are maintained at the required minimum 6 cubic feet per second (cfs) during “dry years” at the Project site and therefore may not be protective of the aquatic environment. Additional information or analysis should be incorporated into the Addendum to address the issues identified below.

2-14

#### Background

The 2009 IS/MND determined that short-term reduction in flow impacts would not occur at or downstream of the Project site to the Coast Guard Wells due to augmentation of in-stream flows from Marin Municipal Water District (MMWD) flow releases approximately 8 miles upstream at Peters Dam on Lagunitas Creek. MMWD is required under Water Rights Order 95-17 (Order) to release flows to meet minimum instream flows at the Lagunitas Creek Samuel P. Taylor State Park gage (SPT gage), 5 miles upstream of the Project and associated Gallagher gage. The Order includes numerous instream flow standards, but one critical standard is a minimum instream flow during a “dry year” of 6 cubic feet per second (cfs) from June 16 - November 1 at the SPT gage. The minimum instream flow standards incorporated into the Order were based on over 10 years of scientific research on Lagunitas Creek including fisheries monitoring, instream flow, water quality and geomorphic studies. As stated in the 2009 IS/MND (pg. 20):

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*“These same minimum flows [6 cfs] would be required in the section between the Gallagher Wells and the Coast Guard Wells to ensure that pumping from the Gallagher Wells does not reduce the minimum required flows to a level that adversely affects fish and aquatic wildlife. **Unless flows are maintained at these required levels, there***

***could be an increase in water temperature and a loss of habitat, and this would be a potentially significant impact on biological resources."***

The 2009 IS/MND assumed that if MMWD meets its required minimum in-stream flow requirements at the SPT gage, then these same minimum instream flow levels would be achieved, and most likely increased, at the downstream Project site due to input of tributaries and lack of additional water diversions. However, as it was considered critical to maintain the 6 cfs instream minimum flow to avoid potentially negative impacts to aquatic life and habitat during times of ground water pumping at the Project site, Mitigation Measure BR-2 was developed in which a legal agreement with MMWD was reached (Intertie Agreement) for the release of additional water to meet the minimum 6 cfs at the Project site, if necessary.

#### Mitigation Measure BR-2

Mitigation Measure BR-2 included several components including a Hydrologic Design Plan, and Mitigation, Monitoring, and Reporting. Relevant excerpts from the Addendum regarding BR-2 include:

- *"NMWD shall not divert water from the Gallagher Wells in a manner that adversely affects fish and wildlife residing between the Gallagher Wells and the Coast Guard Wells. To meet this standard, prior to constructing any proposed project improvements, NMWD prepared a final hydrologic design plan describing how and where stream flows will be monitored and how NMWD will maintain flow levels downstream of the Gallagher Well site."*
- Mitigation, Monitoring, and Reporting  
*"Monitoring and maintaining stream flows will occur throughout the time that the Gallagher Wells are in use. NMWD is responsible for implementing the mitigation and for compliance. **The California Department of Fish and Wildlife will also monitor for compliance and may alter the required conditions for releases after reviewing the monitoring of streamflow data.**"*

#### Specific Water Board Concerns

Data reported in the Addendum, Appendix B, shows that the assumption is incorrect that instream flow levels will remain constant or increase from the SPT gage to the Project site Gallagher gage. Figure 4 demonstrates that while flows at SPT gage range from 5.7 - 7 cfs (mean daily flows), flows range from 4.1 - 7.2 cfs at the Project site, and are below 6 cfs approximately 50% of the period reported. Therefore, Mitigation Measure BR-2 as currently implemented, does not appear to be sufficient to maintain the required 6 cfs minimum instream flows at the Project site.

As part of their analysis for the Addendum, NMWD conducted a groundwater well pump test to evaluate if there was an impact from pumping at Test Well No. 2 on streamflow

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2-16



and associated aquatic habitat. This evaluation measured changes in streamflow and water surface elevation (gage height) at the Gallagher gage. During the pump test, decreases in instream flow were measured to be 0.2 - 0.3 cfs for Test Well No. 2, and the measured changes in gage height were small (.05 ft. maximum change). Based on this it was determined that the impacts from groundwater pumping would not adversely impact aquatic life, habitat or water quality. We concur that at the Gallagher gage location this is an insignificant reduction in water surface elevation. However, this parameter is not the only critical parameter. Reduction in streamflow also affects stream channel wetted width (habitat quantity and quality) and stream velocity, and can affect water temperature and dissolved oxygen levels. Further, an evaluation needs to occur downstream in critical habitat units such as pools, riffles and edge habitat, and not just at the Gallagher gage. Additionally, it is not clear if future pump operations at the Project site will include pumps Nos. 1 and 2 pumping simultaneously. The pumping of 2 wells simultaneously could have cumulative stream withdrawals of 0.4 - 0.6 cfs, which may have adverse aquatic habitat impacts when instream flows fall below 6 cfs. Therefore, the analysis as reported in Appendix B was not sufficient to conclude that there were no adverse impacts to stream habitat, aquatic life and water quality (See Comment 2).

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cont.

### Recommendation

To our knowledge, there has not been an evaluation of the impacts of instream flow reductions below 6 cfs from the Project site to the Coast Guard Wells. If the minimum 6 cfs flow cannot be maintained at the Project site, then it is essential to determine if there is a scientifically defensible alternative baseflow minimum that will be protective of the aquatic ecosystem while allowing groundwater withdrawals at the Project site under defined and quantified groundwater well operating conditions. Mitigation Measure BR-2 includes a provision for this through a CDFW review of streamflow data. We suggest that other critical parameters are incorporated into the evaluation such as: (1) the evaluation of critical instream habitat quality and quantity (e.g. pools, riffles and edge habitat); and (2) water quality parameters such as temperature, DO, and any other undesirable impacts to water quality and groundwater-dependent habitat (affected by velocity and temperature). This evaluation could be conducted after well construction and would be used to regulate groundwater pump operations to insure adverse aquatic ecosystem impacts do not occur at the Project site or downstream.

2-17

### **Conclusion**

In conclusion, we ask NMWD to clarify the current project circumstances, address concerns raised regarding the technical analysis performed for the Addendum, and evaluate the sufficiency of Mitigation Measure BR-2. The Water Board believes that additional analysis could inform the development or adjustments of Mitigation Measure BR-2 to be more effective and successful for reducing impacts to the aquatic environment to the level that was intended by the 2009 IS/MND. We acknowledge that our own understanding of the complex issues and history of this project may be incomplete, so we look to you for clarity and transparency to help ensure all potential

2-18



impacts and environmental effects have been analyzed. We look forward to working with you to resolve West Marin water supply issues and to protect Lagunitas Creek's valuable and uniquely significant aquatic resources, habitat and beneficial uses.

If you have any questions concerning this letter, please contact Nicole Fairley of my staff at (510) 622-2424 or [nicole.fairley@waterboards.ca.gov](mailto:nicole.fairley@waterboards.ca.gov).

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Sincerely,

 Digitally signed  
by Elizabeth  
Morrison  
Date: 2021.02.08  
17:36:26 -08'00'

Elizabeth Morrison  
North Bay Section Leader  
Watershed Management Division

cc: CDFW, Amanda Culpepper, [amanda.culpepper@wildlife.ca.gov](mailto:amanda.culpepper@wildlife.ca.gov)  
NMFS, Jodi Charrier, [Jodi.charrier@noaa.gov](mailto:Jodi.charrier@noaa.gov)

## **Comment Letter 2: San Francisco Bay Regional Water Quality Control Board**

**Comment 2-1:** CEQA Guidelines Sections 15162 and 15163 indicate that unless certain conditions are met, no subsequent or supplemental EIR [or mitigated negative declaration, presumably] shall be prepared. The conditions warranting preparation of these types of tiered CEQA documents include a new significant impact or substantial increase in the severity of a previously disclosed significant impact due to changes in the project, changes in the circumstances under which the project is undertaken, or the identification of new information of substantial importance. CEQA Guidelines Section 15164 sets forth guidance on when it is appropriate to prepare an addendum: if some changes are necessary but none of the conditions set forth in Section 15162 occur.

NMWD has used this Addendum to consider whether any of the above criteria have been met, and finds that they have not. Therefore, an addendum is the appropriate level of environmental documentation. NMWD appreciates the RWQCB's acknowledgement of the complexities of ensuring safe drinking water while balancing species and habitat concerns as well as the continually changing effects of climate change, and looks forward to continuing to work with the RWQCB and other stakeholders within the Lagunitas Creek watershed.

**Comment 2-2:** This comment provides background information and no response required.

**Comment 2-3 and 2.4:** These comments provide background information and no response is required.

**Comments 2-5, 2.6, 2.7:** The Coast Guard Wells are considered a primary supply source for NMWD's Point Reyes System. (The usage of the Coast Guard Wells is also discussed in the response to Comment 1-2 above.) The Coast Guard Wells will continue to be operated as primary supply wells in concert with Gallagher Well No. 1, and the proposed Gallagher Well No. 2 in order to meet water supply and water quality needs of the Point Reyes Station system. This is consistent with the original intent of the wells as described in the 2009 MND. With respect to impacts associated with pumping operations, the cumulative effect of Gallagher Well No.1, Gallagher Well No. 2, and the private onsite well has been demonstrated in the pumping test, which indicates de minimis changes in flows in Lagunitas Creek (See response to Comment 1-1). Therefore, the discernable impacts have been demonstrated to be less than significant, consistent with the 2009 MND, irrespective of individual well operations, which have been and will necessarily be dependent upon annual and seasonal conditions within the watershed.

**Comment 2-8:** As noted on Page 2 of the *Groundwater and Streamflow Response Analysis* prepared by Sutro Science, LLC (Sutro Report), the 7-day constant-rate aquifer test at Test Well NP-5 was conducted while Gallagher Well No. 1 was actively pumping. According to data recorded by the NMWD's Supervisory Control and Data Acquisition (SCADA) system, between September 18 and October 1, 2020, the flow output from the Gallagher Well No. 1 ranged from about 90 to 134 gallon per minute (gpm). Additionally, the private domestic ranch well located 163 feet east of Gallagher No. 1 cycled on during periods of residential demand throughout the same period. Thus, the additional groundwater withdrawal from the Test Well NP-5 combined with pumping from the Gallagher Well No. 1 and the private domestic ranch well represents the most conservative testing parameters and thereby allowed the evaluation of cumulative impacts. Previous aquifer testing has indicated that

pumping at Gallagher Well No.1 has only a minor effect on groundwater levels near the Test Well NP-5 as evidenced by negligible drawdown (less than 0.05 feet) in observations wells NP-2 and NP-3.<sup>9</sup>

**Comment 2-9:** As discussed in the Sutro Report on Page 4, stream flow in Lagunitas Creek can fluctuate due to diurnal changes attributed to evapotranspiration, irrigation runoff, pumping from private domestic or irrigation supply wells, increased runoff, leachfield flows, stream diversions, or operational anomalies at the gage itself, such as debris accumulation or its removal. Releases or flow reductions at Peters Dam on Kent Lake also affect flow in Lagunitas Creek. These fluctuations in flow are captured on the gage data graphs available from the USGS website<sup>10</sup>. Depending on the factors affecting the flow, the fluctuations can be recorded as abrupt, temporary changes or gradually increasing or decreasing trends. Figure 4 of the Sutro Report shows instances of flow releases from Kent Dam and Shift-Adjusted Ratings<sup>11</sup> made to the gage data by the USGS. According to NMWD, MMWD released flows from Kent Lake on July 23, August 17, and September 1, and October 16. These increases in flow are evident on Figure 4 of the Sutro Report at both the Samuel P Taylor Gauge and the Point Reyes Gage. According to the USGS, between the period of July 1 and October 31, shift adjustments were applied on October 5 at the Samuel P Taylor Gage and on August 15-17 and October 6 at the Point Reyes Gage. These shift adjustments are also evident on Figure 4 of the Sutro Report at the two stream gages.

No MMWD flow releases or USGS shift adjustments were made during the constant-rate aquifer test at Test Well NP-5 between September 22 and September 29, 2020. As shown on Figure 6 of the Sutro Report, average flows in Lagunitas Creek as measured by the Point Reyes Gage remained stable, fluctuating within typical margins, slightly above 6 cubic feet per second (cfs) at the start of the pump test and decreasing to just below 6 cfs during the latter part of the test. Similarly, gage height (Figure 7 of the Sutro Report) remained steady [generally between 0.97 feet and 0.99 feet (0.02 feet variation) or a difference of about one-quarter of an inch] through the aquifer test period. Based on the dates of the known inputs (releases) to Lagunitas Creek and the recorded shift adjustments made by the USGS, it is evident that stream flows were not increasing in Lagunitas Creek at the Point Reyes Gage during the constant-rate aquifer test (between September 22 and September 29, 2020) and the results of the stream response analysis or potential impacts of the aquifer test therefore were not masked. Additional evidence to support this is the direct correlation between pumping rate during the test and the decrease in stream flow; the discernible decrease in flow observed at the Point Reyes Gage was about 0.3 cfs or about 140 gpm, which is the approximate constant pumping rate throughout the aquifer test at Test Well NP-5.

**Comment 2-10:** The rationale for considering the period during the aquifer test “worst case summer drought conditions” was not necessarily based on a statistically derived low flow period but rather reflects a qualitative

<sup>9</sup> PES Environmental Inc. (PES), 2020b. Supplemental Exploration for Potential Groundwater Supply Well. Gallagher Ranch Property — North Pasture Area, Gallagher Well Project, Point Reyes Station, California. October 28, 2020 Page 2/9.

<sup>10</sup> [https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb\\_00060=on&cb\\_00065=on&format=gif\\_stats&site\\_no=11460600&period=&begin\\_date=2020-09-27&end\\_date=2020-10-01](https://nwis.waterdata.usgs.gov/usa/nwis/uv/?cb_00060=on&cb_00065=on&format=gif_stats&site_no=11460600&period=&begin_date=2020-09-27&end_date=2020-10-01)

<sup>11</sup> Stage-discharge relations (ratings) are usually developed from a graphical analysis of numerous current-meter discharge measurements (sometimes called calibrations). All discharge measurements are compiled and maintained in a data base. Some measurements indicate a change in the rating, often due to a change in the channel or riparian vegetation. Such changes are called shifts; they may indicate a short- or long-term change in the rating for the gage. Applying these shifts to a rating is called a Shift-Adjusted Rating. Shifts are either positive or negative, depending on whether the changed values are added to or subtracted from the recorded gage height as it is adjusted from the base rating. Possible causes for negative shifts include fill or deposition in the channel, temporary dams (natural or human-made), seasonal vegetative or algal growth, and debris jams while positive shifts can be caused by scour, gravel mining, and clearing of debris or vegetation from channel either by floods or humans (USGS: <https://waterdata.usgs.gov/nwisweb/local/state/ca/text/whatisarating.html#:~:text=Some%20measurements%20indicate%20a%20change,called%20a%20Shift%2DAdjusted%20Rating>).

statement that the pump-test was conducted during the seasonal late summer/early fall period when Northern California had experienced drought conditions and coastal streams were typically at their seasonal low. While there may have been periodic stream flows decreasing to 4.0 – 4.5 cfs in early July and then increasing to a temporary peak of 7 cfs in August, the stream flows at the Point Reyes Gauge during the aquifer test in late September remained relatively stable, ranging between 5.5 and 6.5 cfs, which is generally consistent with average stream flow of about 5.5 cfs between July 1 and Oct 31 (see Sutro Report, Figure 4).

**Comment 2-11:** The Point Reyes Gauge was installed and is operated and maintained by the USGS personnel in accordance with USGS standard methods for station site selection, flow measurement and data analysis, which provides highly reliable, long-term stream flow data. For the groundwater and streamflow response analysis, the confidence in the Point Reyes Gauge to provide accurate data on wells was also based on its physical proximity to the Gallagher well site. Test Well NP-5 (proposed Gallagher Well No. 2) is 140 feet from the main channel of Lagunitas Creek, which at periods of low creek flow, could be within the cone of influence of the pumping well. From this point, flow reductions caused by pumping would be detected in the Point Reyes Gauge only 400 feet downstream.

While not directly applicable to Test Well NP-5, it should be noted that confidence in the use of the Point Reyes Gauge is further supported by a statistical comparative analysis conducted in 2014 for the Point Reyes Gauge and a temporary Auxiliary Gauge, located about 650 feet downstream.<sup>12</sup> The location of the Auxiliary Gauge was determined in consultation between the NMWD and the California Department of Fish and Wildlife to address compliance with Mitigation Measure BR-2. The Auxiliary Gauge was established and temporarily operated by the USGS between July 26 and September 30, 2013 while the Point Reyes Gauge continued in normal operation. The Auxiliary Gauge was also in operation during the aquifer testing program conducted for Gallagher Well No. 1. The comparative analysis involved creating hydrographs for the Samuel P. Taylor Gauge, the Point Reyes Gauge and the Auxiliary Gauge and performing statistical tests. Stream flow comparisons were performed for the data representing base flow conditions, two short period of elevated stream flow and the period between September 23 and 27, 2013, which represented the period during which the Gallagher Well No. 1 72-hour constant-rate pump test was conducted. The comparative statistical analysis concluded that for purposes of measuring stream flow in the context of Mitigation Measure BR-2, either the Auxiliary Gauge or Point Reyes Gauge could be used, and the Point Reyes Gauge is suitably located to evaluate and monitor potential influences to stream flow resulting from groundwater withdrawal from the Gallagher Test Well.

**Comment 2-12:** Please also see the response to *Comment 2-8*, above. The 7-day constant rate aquifer test was conducted during a period that the Gallagher Well No.1 was operating continuously at pumping rates ranging between 90 and 134 gpm. Therefore, the baseline conditions prior to the start of the 7-day constant rate pump test included Gallagher Well No. 1 well pumping continuously and the private domestic ranch well, located near Gallagher No. 1, cycling on demand to supply the ranch. Previous aquifer testing concluded that the demand cycling of the domestic ranch well, located 163 feet east of Gallagher Well No. 1, resulted in only minor fluctuation (less than 0.1 foot) at Gallagher Well No. 1.<sup>13</sup> The addition of the 7-day constant-rate pump test between September 22 and September 29, 2020 represented the cumulative condition for the streamflow and

<sup>12</sup> O'Connor Environmental, Inc. Comparative Analysis of the USGS Point Reyes Gauge and Auxiliary Gauge Stations, North Marin Water District (NMWD) Hydrologic Design Plan Gallagher Wells and Pipeline Project. Prepared for Mr. Chris De Gabriele, NMWD. February 14, 2014.

<sup>13</sup> PES Environmental Inc. (PES), 2020. Results of Aquifer Testing Program, Gallagher Well Site, Gallagher Well and Pipeline Project, Northeast of point Reyes Station, California. February 14, 2014.

aquifer response analysis. It should be noted that results of a 2019 groundwater investigation indicate groundwater levels in the vicinity of observation NP-2 and NP-3 (located near test well NP-5) exhibited only minor perturbations (i.e., less than 0.05 feet) in response to pumping operations at Gallagher Well No. 1 (located approximately 450 feet south-southwest of NP-3).<sup>14</sup>

**Comment 2-13:** The commenter is correct to note that cold-water refugia are an essential part of salmonid life history; particularly for steelhead who often rear over the summer period in isolated, disconnected pool habitats. However, the hydrologic analysis demonstrates that the effect of the proposed well operation at most would have de minimis impacts on the aquifer such that the associated changes in the rate of groundwater infiltration would not rise to a level sufficient to significantly impair aquatic habitat [by exposing fish to elevated water temperatures]. At present, the Lagunitas Creek watershed is not a system where elevated water temperatures are perceived to be a threat to salmonid abundance. The NMFS recovery plan for central California coast steelhead and for central California coast Coho does not identify water temperatures as one of the primary limiting factors affecting abundance of these runs within the watershed.<sup>15,16</sup> Similarly, the Lagunitas Creek Stewardship Plan fails to identify water temperatures as a significant impairment to aquatic habitat.<sup>17</sup> That is, outside of extended dry periods, salmonids are unlikely to be exposed to water temperatures above a threshold of concern.

Although the aforementioned pump test documented a slight decrease in gage height and discharge, it is likely that these slight reductions would have equilibrated had the test been allowed to continue, because the aquifer is transmissive. The transmissibility of the aquifer suggests that any impacts to the rate of groundwater infiltration downstream of pump operation would be temporary and negligible, and therefore that the contemplated pumping regime would at most have a limited effect on instream water temperature. Additionally, because the pump test was conducted during a dry year and under seasonal low flows, the small observed reductions in gage height and streamflow can be viewed as a worst-case condition. It is likely that in times of higher creek flows and elevated groundwater levels (i.e., most periods of most years), continued pumping at the site would not register a discernable response in the creek.

**Comment 2-14:** The commenter asserts that Mitigation Measure BR-2 is not consistently ensuring that instream flows are maintained at the required minimum 6 cubic feet per second (cfs) during “dry years” at the Project site, and therefore may not be protective of the aquatic environment. That is not the purpose of Mitigation Measure BR-2, and in any event, this statement is not correct; there is no requirement for NMWD (or MMWD) to maintain flows at 6 cfs between the Samuel P. Taylor Park Gauge and the project site; both the Interconnection agreement and WR-95 require 6 cfs at the SPT Park Gauge. NMWD does not have the authority to control diversions by private pumpers that may occur along Las Gallinas Creek between SPT Park Gauge and the project site. Further, as clearly demonstrated in the analysis and in responses to comments, impacts associated with implementation of Gallagher Well Nos 1 and 2, or their cumulative pumping would be de minimis. However, NMWD recognizes the complexity of flow regime issues in Lagunitas Creek watershed, and has modified Mitigation Measure BR-2 to incorporate coordination with agencies and stakeholders on this issue. NMWD remains committed to meeting

<sup>14</sup> PES Environmental Inc. (PES), 2020b. Supplemental Exploration for Potential Groundwater Supply Well, Gallagher Ranch Property – North Pasture Area, Gallagher Well Project, Point Reyes Station, California. October 28, 2020 Page 2/9.

<sup>15</sup> National Marine Fisheries Service (NMFS), 2016. Final Coastal Multispecies Recovery Plan. National Marine Fisheries Service, West Coast Region, Santa Rosa, California.

<sup>16</sup> National Marine Fisheries Service (NMFS), 2012. Final Recovery Plan for Central California Coast coho salmon Evolutionarily Significant Unit. National Marine Fisheries Service, Southwest Region, Santa Rosa, California.

<sup>17</sup> Marin Municipal Water District (MMWD), 2011. Lagunitas Creek Stewardship Plan. Final. June 2011.

public water supply needs for the Pt. Reyes Service Area on a reliable basis within the context of its water rights in an environmentally sensitive manner.

Text of BR-2 has been revised as follows, based upon comments received. Revisions are in **bold italics underline**.

### **Mitigation Measure BR-2**

NMWD shall not divert water from the Gallagher Wells in a manner that adversely affects fish and wildlife residing between the Gallagher Wells and the Coast Guard Wells. To meet this standard, prior to constructing any proposed project improvements, NMWD prepared a final hydrologic design plan describing how and where stream flows will be monitored and how NMWD will maintain flow levels downstream of the Gallagher Well site. This plan addressed the following:

- The location and operation of the relocated gauging station;
- The party responsible for monitoring the Gallagher gauging station;
- Final arrangements with MMWD regarding water releases when necessary;
- Details of how the water release will be initiated and terminated; and
- Prediction process for initiating and terminating water releases.

This plan, as described above, shall be was reviewed ~~and approved~~ by the California Department of Fish and Game (now the California Department of Fish and Wildlife); no comments were provided by the Department within the 60-day review period provided under California Fish and Game Code Section 1602 (a) (4), and in reliance thereon, NMWD connected Gallagher Well No. 1 into the newly constructed transmission pipeline and began delivery of water from the Gallagher Ranch site in 2015. The State Water Resources Control Board made the requested changes to NMWD's Water Rights License and Permit as described in the 2009 IS/MND; now that the location of Gallagher Well No. 2 has been determined in consultation with the property owner, NMWD will submit a petition for an administrative update to include the site of Gallagher Well No. 2 as an additional point of diversion under the Water Rights License and Permit. Once approved by this agency, NMWD will apply to the State Water Resources Control Board to make the requested changes to its Water Rights License and Permit.

### Mitigation Monitoring and Reporting

The hydrologic design plan was reviewed by the Department prior to connection of Gallagher Well No. 1 to the newly constructed transmission pipeline in 2015. Monitoring and maintaining stream flows will occur throughout the time that the Gallagher Wells are in use. NMWD is responsible for implementing the mitigation and for compliance. The California Department of Fish and ~~Game~~ Wildlife (CDFW) will also monitor for compliance and may alter the required conditions for releases after reviewing the monitoring of streamflow data. **NMWD will continue to work with agencies and stakeholders to update the hydrologic design plan to monitor resulting flow levels and meet the above mitigation standard; this will include pre and post project monitoring to confirm effects to instream habitat quality and quantity (e.g. pools, riffles and edge habitat) related to the project are less than significant.**

**Comment 2-15:** Refer to the response above to *Comment 2-14* regarding revisions to Mitigation Measure BR-2.

**Comment 2-16:** The respective responses to Comments 1-11 and 2-13 address the absence of impacts on water temperature. As is explained above in the respective responses to Comments 1-7 and 2-8, during the 7-day constant-rate aquifer test at Test Well NP-5, Gallagher Well No. 1 was actively pumping and the private domestic ranch well cycled on during periods of domestic demand throughout that period. Thus, the hydrologic analysis examined the effects of the cumulative stream withdrawals of Gallagher Well Nos. 1 and 2 pumping simultaneously and was sufficient to conclude that there were no adverse impacts, and that the project's contribution to cumulative impacts is less than cumulatively considerable. Please refer to Response 2-14 regarding revisions to the hydrologic design plan to incorporate pre and post project monitoring to ensure that adverse aquatic ecosystem impacts are less than significant.

**Comment 2-17:** Refer to *Comment 2-14*, above for a response regarding revisions to Mitigation Measure BR-2.

**Comment 2-18:** NMWD acknowledges the Water Board's comment and looks forward to continuing a collaborative relationship to resolve West Marin water supply issues and continued protection of Lagunitas Creek and associated aquatic resources.

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## ATTACHMENT 2



## Terrie Kehoe

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**From:** Ken <klevin13@gmail.com>  
**Sent:** Wednesday, February 10, 2021 12:41 PM  
**To:** Info NMWD  
**Subject:** Gallagher Well #2

This email is to let you know that I and my family are in favor of permitting and bringing on line the second Gallagher well.

West Marin needs a reliable source of salinity and chloride-free water. Thanks to NMWD for planning the necessary infrastructure changes in order to bring this about.

Well #2 was approved in 2009, following extensive environmental review. The present application relocates the site of Well #2 only a few hundred feet from its original placement.

Low stream flow water release agreements are already in place and promise protection to fish and wildlife in the event of low water levels in the creek.

Thank you.

Ken Levin and family  
Point Reyes Station

## Terrie Kehoe

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**From:** Drew McIntyre  
**Sent:** Tuesday, February 23, 2021 7:46 AM  
**To:** Terrie Kehoe  
**Subject:** FW: Support Gallagher Well #2

**From:** pday <daynurse@gmail.com>  
**Sent:** Friday, February 19, 2021 12:03 PM  
**To:** Drew McIntyre <dmcintyre@nmwd.com>  
**Cc:** ken levin <klevin13@gmail.com>  
**Subject:** Support Gallagher Well #2

I support the Northern Marin Water District's plan to drill a second well on the Gallagher property utilizing the existing EIR results so they can provide water without seawater intrusion to our local communities.

Our communities are proud of leading the nation in avoiding single-use or larger plastic containers for sodas and drinking water, favoring the delicious tap water NMWD provides. (For years, celebrations in West Marin included glass containers to serve refreshments.) Because of saltwater intrusion in the lower well last summer, many residents in our town who reacted to the increased saline had to compromise their ecological values and buy supplemental bottled water. The sooner we can return to tap water, the better our health and closer we get to global environmental preservation.

I'm confident that folks with diseases requiring low-salt diets and gardeners who lost house and garden plants due to the increased saline this past year would agree with me.

I would urge permitting agencies to recognize the urgency for a healthier water supply and expedite any permits necessary.

Sincerely,

Peggy Day, RN, Retired

Secretary, Point Reyes Station Village Association

Proud Grandma to Liam, 15 - Taylor, 13 - Finian, 10 - Riley, 6 - Ridge, 4 - Noli, 4 - Clay 2

**ATTACHMENT 3**  
**GALLAGHER WELL No. 2 PROJECT**  
**CEQA REVIEW PROCESS TIMELINE**

Description	Date	Current Status/Comments
Board Meeting – Discuss Proposed CEQA Strategy	December 15, 2020	Complete
Board Meeting – Request Approval to Initiate Courtesy CEQA Review	January 5, 2021	Complete
30-day Courtesy Review Period Begins	January 6, 2021	Completed January 7, 2021
30-day Courtesy Review Period Ends	February 5, 2021	Completed February 8, 2021
Board Meeting – Adopt Addendum	February 16, 2021	March 2, 2021

Updated: February 26, 2021

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**7**

## MEMORANDUM

To: Board of Directors

February 26, 2021

From: Drew McIntyre, General Manager



Subject: Renew Declaration of Local Emergency Related to COVID-19 Pandemic

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**RECOMMENDED ACTION:** Approve continuation of the local emergency resulting from the COVID-19 pandemic as declared in District Resolution No. 20-07

**FINANCIAL IMPACT:** ~\$144,810 as of January 31, 2021 (total fiscal impacts are currently unknown)

On March 4, 2020, the Governor of the State of California declared a State of Emergency as a result of the coronavirus (COVID-19) pandemic. On March 13, 2020, the President of the United States declared a National Emergency as a result of the threat of COVID-19.

On March 16, 2020, the County of Marin by Order of the Health Officer issued a Shelter in Place Order limiting the travel of all county residents and ordering county businesses to cease all non-essential activities and to take further actions as described in said Order through April 7, 2020. The order limits activity, travel and business functions to most essential needs.

On March 16, 2020 the General Manager, as the District's Emergency Manager activated the District's Emergency Operations Plan.

On March 19, 2020, Governor Newsom issued Executive Order N-33-20 ordering all individuals living in California to stay home at their place of residence, with certain exceptions for critical services and other qualifying exceptions. This shelter-in-place order has no specified termination date.

On March 31, 2020, the County of Marin by Order of the Health Officer issued an extended Shelter in Place Order through May 3, 2020 that is more restrictive than the original order. The new order continues to provide an exception for the operations and maintenance of "Essential Infrastructure," which includes, but is not limited to, water, wastewater, and recycled water service. Exemptions are also in place for Essential Government Functions, for certain "Minimum Basic Operations," for emergency management functions, for certain narrowly prescribed "Essential Business" functions, and for certain qualifying private construction, such as housing projects meeting low-income needs.

On April 29, 2020, Marin County and the other six Bay Area Public Health Officers issued a new order effective May 4, 2020 through May 31, 2020. Marin's public health order concerning use of face coverings does not have an end date and will remain in place until further notice. Under the May 4th Shelter-In-Place order, construction activities, certain businesses that operate primarily

outdoors, and some outdoor activities will be allowed to resume with specific conditions.

On May 15, 2020, Marin County issued a new order allowing a limited number of additional businesses and activities to resume operations subject to specified conditions. In particular, office spaces were allowed to resume operation on June 1, 2020 subject to strict compliance with specific Marin County requirements. This new order has no end date and is to remain in effect until rescinded or superseded.

On July 13, 2020 Governor Newsom issued a statewide order to dial back on recent loosening of restrictions due to a significant increase in the number of confirmed cases. As a result, various activities in Marin County were once again closed down, including: office space for non-essential operations, indoor malls, hair salons/barbershops and indoor seating at restaurants.

On September 15, 2020, Marin County successfully appealed to the California Department of Public Health (CDPH) to move into Tier 2 in the state's COVID-19 response framework. Moving from Tier 1, or "widespread" COVID-19 community risk (or purple) status, to the Tier 2 "substantial" (or red) status risk category allowing more businesses to reopen.

On October 27, 2020 Marin County was notified that California was moving the county from Tier 2 or "substantial risk" status to the Tier 3 or "moderate risk" level due to fewer daily cases, and a reduction in the positivity rate.

On November 16, Governor Gavin Newsom announced that CDPH officially moved Marin County from orange Tier 3 ("moderate risk") to the more restrictive red Tier 2 ("substantial risk") on its Blueprint for a Safer Economy. The step back comes just three days after the Marin County Department of Health and Human Services (HHS) notified local businesses and agencies about preemptive restrictions to stem the virus' spread locally.

On December 3, 2020 Governor Newsom announced that all sectors other than retail and essential operations will be closed in regions of California when less than 15% of intensive care unit (ICU) beds are available under a new Regional Stay Home Order. Marin County proactively implemented the State's Regional Stay Home Order at noon on December 8<sup>th</sup> and the state officially issued said Order to Marin County (as part of the Bay Area region) on December 17<sup>th</sup>.

On January 25, 2021, CDPH lifted the Regional Stay-Home Order for the Bay Area and statewide. All 11 counties in the Bay Area, including Marin, thereby moved into the purple (or Tier 1) stage within the State's "Blueprint for a Safer Economy". With 7% of Marin residents vaccinated and very limited weekly supplies, health officials noted that the vaccine will play a limited role in preventing any surges soon.

**On February 23, 2021, the State has announced that Marin County will move from “purple” to “red” status in the Blueprint for a Safer Economy effective Wednesday, February 24. The move from Tier 1 or “widespread risk” status to the less restrictive Tier 2 or “substantial risk” level is based on consecutive weeks of progress in Marin’s COVID-19 case statistics. Marin joins San Mateo and San Francisco as the only Bay Area counties not in tier 1, the most restrictive tier.**

On April 7<sup>th</sup>, the Board of Directors approved Resolution No. 20-07 proclaiming the existence of a local emergency, granting the General Manager to take actions necessary for emergency response due to the COVID-19 pandemic until the State of Emergency is terminated.

Since April 21, 2020, the Board of Directors has, at every regular meeting, approved continuation of the local emergency resulting from the COVID-19 pandemic as declared in District Resolution No. 20-07.

District emergency planning has been aggressively implemented since March 16, 2020. The District’s current COVID-19 Preparedness and Response Plan has been prepared to maintain optimum health and safety working conditions. As a result of the Plan, the District has adopted various housekeeping and physical distancing protocols and also instituted modified work schedules as appropriate. Initially approximately 50% of the District’s staff were physically separated as much as possible by rotating shifts and having some employees work from home, but all critical operations needed to maintain essential services continue. Relocation of additional staff back to the District buildings, and certain other projects and activities has occurred and the District is now operating with 86% of staff on-site or in the field full time. The balance of staff are teleworking from home with most coming into the office at least one day each week. Walk-in customer service is still suspended. A summary of key emergency actions taken and current estimated costs is provided in Attachment 1.

As the COVID-19 emergency continues in our service area, Staff is requesting the Board find that there still exists a need to continue the State of Emergency reflected by Resolution No. 20-07.

**RECOMMENDED ACTION:**

Approve continuation of the local emergency resulting from the COVID-19 pandemic as declared in District Resolution No. 20-07.

## Emergency Actions Summary

### Emergency Operations Team Actions

- Water treatment plants have been closed to all non-essential staff and the public; expanded social distancing and safety measures for essential plant staff.
- Public lobby in the District Administration building has been closed and customers have been provided with alternative methods for communicating with District staff.
- Developed guidelines for social distancing in the office and in the field; distributed guidance to all employees and posted social distancing protocol at facility entrances.
- Developed an initial rotational schedule for operations and maintenance staff to reduce staffing density on-site and minimize the number of employees on duty while completing essential work. (This approach reduced productivity, but improved the likelihood of healthy backup staff.)
- During initial response, shifted ~50 percent of employees to rotating schedule and/or rotating work currently ~15% of employees are on full or partial temporary telework assignments.
- Procured additional District cell phones for field staff to have better access to District communications and direct contact with supervisors.
- Disinfected District vehicles and reconfigured vehicle assignments to accommodate single occupancy to allow for social distancing, including re-deployment of vehicles scheduled for auction.
- Suspended discretionary water service turn-offs for the duration of the emergency declaration.
- Continuing coordination with local agency, county and state contracts to share information and implement best practices.
- Participating in weekly multi agency coordination calls through Marin County Office of Emergency Services (OES).
- Updating public website, messaging and social media posts as necessary including messages on suspension of walk-in services and water safety and reliability.
- Spring 2020 Waterline newsletter, direct mailed to all customers, included COVID-19 messaging with information on water safety and reliability.
- Posted magnetic signage on vehicles to inform public to respect distancing around crews.
- Issued guidance on face coverings in compliance with Centers for Disease Control and Prevention and County recommendations; revised to address April 29 County order generally requiring members of the public and workers to wear face coverings.
- Developed and rolled out an employee self-assessment screening questionnaire for use by any District employee or vendor prior to entering a District workspace; self-assessment questions are reviewed and updated as needed.
- Continue to procure necessary face coverings and personal protective equipment, including disposable masks, face covering and N95 equivalent masks.
- Tracking customer delinquency and comparing to last year to assess potential revenue impacts.



- Developing a living “lessons learned” document.
- Installed hand disinfecting stations at District facilities.
- Expanded use of District’s on-call requirements to ensure construction crew staff maintain their work “bubbles” to ensure adequate back-up staff availability.
- Increased janitorial services to include disinfection of frequently touched areas (door handles, knobs, etc.).
- Modified work spaces to improve physical separation between staff.
- Developed a COVID-19 Preparedness and Response Plan and provided training.
- Implemented a daily self-assessment reporting program for all staff reporting to work.
- Modifying District office front lobby in preparation of re-opening walk-in services (Date to be determined).
- Installed “No Touch” drinking fountains in both Administration Building and Construction Building.

#### **General Manager Authorizations**

- Extended vacation accrual maximums from July 1, 2020 to September 30, 2020.
- Extended FY 2019/20 vision insurance reimbursement eligibility from July 1 to August 31, 2020.

**COVID Cost Summary****PROCUREMENT EXPENSES**

<b>Vendor Purchases</b>	<b>Procurement Type</b>	<b>Total Purchase Order Amount</b>	<b>Date</b>
Durkin Signs & Graphics	Magnetic "Social Distance" Signs	\$1,077	4/14/2020
Winzer Corporation	Surgical Masks (2,000)	\$3,751	4/15/2020
Boucher Law	COVID Protection Plan + Ongoing Support	\$8,243	3/2020-12/2020
JCA Construction	Misc. Office Social Distancing Modifications	\$13,177	6/30/2020
Winzer Corporation	Surgical Masks (2,000)	\$1,592	7/6/2020
Novato Glass	Plexiglass	\$3,969	6/9/2020
Amazon	Face Masks (12)	\$54	6/30/2020
USA Bluebook	Digital Forehead Thermometers (2)	\$218	7/30/2020
Amazon	Digital Thermometers (20)	\$144	6/24/2020
Amazon	Face Masks (120)	\$405	8/20/2020
Winzer Corporation	Surgical Masks (2,000)	\$570	1/14/2021
<b>Total Procurement Amount To-Date</b>		<b>\$33,200</b>	

## Emergency Actions Summary

February 26, 2021

Page 4

### Internal Labor Expenses

Increased on-call labor costs: ~\$73,025 thru December 31, 2020

**~\$81,750 thru January 31, 2021**

Families First Coronavirus Response Act (FFCRA)

Allows employees to take time off for COVID  
medical reasons and/or childcare.

~\$24,380 thru December 31, 2020

Payroll Collection Costs

**~\$5,480 October 2020 -January 2021**

### Water Bill Delinquency Impacts

	<u>12/2019</u>	<u>12/2020</u>	<u>1/2020</u>	<u>1/2021</u>
Customer Accounts Past Due (count)	1.9%	4.3%	<b>1.8%</b>	<b>3.7%</b>
Delinquent Balances % Due on Account	4.1%	11.8%	<b>5.7%</b>	<b>10.6%</b>
Delinquent Balances \$ Due on Account	\$52,000	\$124,00	<b>\$50,000</b>	<b>\$144,000</b>

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8

MEMORANDUM

To: Board of Directors

February 26, 2021

From: Julie Blue, Auditor-Controller *JB*

Subj: Initial Review SCWA FY22 Water Transmission System Budget

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**RECOMMENDED ACTION: None - Information Only**

**FINANCIAL IMPACT: Increase of \$46.34 (4.63%) per Acre-Foot**

Attached is the draft Sonoma County Water Agency Water Transmission System budget (Attachment 1) for Fiscal Year 2021/2022 (FY22). The budget proposes NMWD water purchases at \$1,047.34 per acre-foot, versus \$1,001.00 per acre-foot this current fiscal year (page 2), an increase of 4.63%. This draft is being provided as information only in advance of the March 16, 2021 board meeting at which time Lynne Rosselli, Finance Manager for the Sonoma County Water Agency, will present the budget.

## Water Transmission FY 2021-2022 Draft Budget and Rates

The draft proposed FY 2021-2022 rates are shown in the table below:

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	46,095		
O&M	\$685.92	\$685.92	\$685.92
Water Management Planning	\$0.00	\$0.00	\$0.00
Watershed Planning & Restoration	\$132.66	\$132.66	\$132.66
Recycled Water and Local Supply	\$0.93	\$0.93	\$0.93
Water Conservation	\$44.44	\$44.44	\$44.44
<b>Total O&amp;M</b>	<b>\$863.95</b>	<b>\$863.95</b>	<b>\$863.95</b>
Storage & Common Bond/Loan Charges	\$116.51	\$116.51	\$116.51
Sonoma Aqueduct Bond/Loan Charge			\$126.72
<b>Prime Contractors</b>	<b>\$980.46</b>	<b>\$980.46</b>	<b>\$1,107.18</b>
<b><u>Discretionary Charges</u></b>			
Capital Charges - to build fund balance for future projects	\$20.00	\$20.00	\$38.00
<b>Total Prime Contractors</b>	<b>\$1,000.46</b>	<b>\$1,000.46</b>	<b>\$1,145.18</b>
Total Overall Increase:	3.47%	3.47%	3.43%

### SUMMARY

- **Deliveries: (Budget Packet Pages 9-14):**
  - FY 2021-2022: rates are based on budgeted deliveries of **46,095 Acre-Feet (AF)**. Per the Restructured Agreement for Water Supply, rates are calculated using the lesser of: the average annual water deliveries for the past 36 months (**46,095 AF**) or the last 12 months of water deliveries (Calendar Year (CY) 2020: **47,748 AF**). Actual deliveries for CY 2020 were 9.2% more than CY 2019: 43,707 AF. FY 2021-2022 budgeted deliveries are 5.5% more than FY 2020-2021 budgeted deliveries.
  - FY 2020-2021: budgeted deliveries for rate calculation were based on average annual water deliveries for the last 12 months of water deliveries CY 2019 (43,707 AF). Actual FY deliveries will be determined at the end of FY 2020-2021. Current trend indicates actuals may be at budget.
  - FY 2019-2020: budgeted deliveries were 43,870 AF. Actual deliveries were 45,649 AF (4.1% higher).
- **Operations and Maintenance (O&M) – Water Transmission O&M Fund (Budget Packet Pages 15-22):**
  - 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	\$29.41	4.5%	Increase due to cathodic protection projects and pay go capital projects in Common Facilities.
Revenue	\$3,721,000	8.5%	Increase in revenue is attributable to the rate increase and increase in water deliveries.
Expenditures	\$3,934,000	7.8%	Increase attributable to an increase in maintenance projects to build system resiliency (cathodic protection, pump and valve replacements, chlorine and pH improvement projects), studies (Regional Water Supply Resiliency, Watershed and Riverbank Filtration Water Quality Studies and fire related water quality studies), emergency response planning and training, and pay go capital projects in Common Facilities.

Factors affecting the O&M rate:

O&M Fund Expenditures	Increase (Decrease) in Dollars	Percent Change	Description
Labor	\$875,000	5.5%	Increase attributable to increase in maintenance to build system resiliency (pumps, pipes, valves, chlorine and pH projects), and regional water supply resiliency, water quality studies, and emergency response planning and training.
Power	\$0	0.0%	No increase anticipated over FY2020-2021 budget.
Chemicals	\$0	0.0%	No increase anticipated over FY2020-2021 budget.
Testing/Analysis	\$10,000	8.0%	Increase due to fire-related water quality testing.
Contract Services	(\$627,000)	-9.6%	Decrease due to tank maintenance contracting delays and change in approach. Tank maintenance program will cost an estimated \$1 million per year (prior year budgets will roll forward). Recoat projects will be bid under separate contracts.
Maintenance - Equipment	\$400,000	37.6%	Increase for collector well pump and valve replacements and chlorine and pH projects to build system resiliency.
Small Tools - Instruments	(\$5,000)	-3.2%	Reflects five year average expenditures.
Operating Transfers	\$2,565,000	19.7%	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 23-32):**

- 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	(\$0.92)	-99.5%	Fiscal Year 2020-2021 rate is \$0.92. Fund is for Urban Water Management Plan updates. Past rate increases have accumulated sufficient fund balance for Fiscal Year 2021 Urban Water Management Plan.
Revenue	(\$48,000)	-96.2%	Using an estimated \$79,000 in fund balance to decrease rate increase and smooth overall rate increase.
Expenditures	(\$95,000)	-54.3%	Consulting agreement encumbered in prior year leading to reduced budget in FY2021-22 following submittal of Urban Water Management Plan.

○ 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	\$15.33	13.1%	Fiscal Year 2020-2021 rate is \$117.33. Rate increase for design and right-of-way expenditures for Dry Creek Habitat Enhancement phases 5 and 6, and construction of phases 4 and 5. Approximately \$300,000 in fund balance is being used for design and construction costs to smooth rate impact.
Revenue	\$972,000	17.4%	Increase due to subfund rate increase for Dry Creek Habitat Enhancement phases 5 and 6, offset by use of fund balance.
Expenditures	(\$1,799,000)	-19.8%	Decrease in expenditures due to completion of Dry Creek Habitat Enhancement phase 4 activities. Ongoing costs for phases 5 and 6 design, right-of way, and construction 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	(\$0.01)	-0.8%	Fiscal Year 2020-2021 rate is \$0.94. Past rate increases have accumulated sufficient fund balance for this fund.
Revenue	(\$14,000)	-23.6%	Using approximately \$50,000 in fund balance to decrease rate increase and smooth overall rate increase.
Expenditures	\$0	0.0%	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	\$1.63	3.8%	Fiscal Year 2020-2021 rate is \$42.81. Rate increase for program needs including Prop 1 Bay area and North Coast grant programs.
Revenue	\$790,000	33.2%	Fiscal Year 2020-2021 use of \$405,000 in fund balance to reduce conservation fund rate increase and smooth overall rate increase.
Expenditures	\$1,051,000	41.6%	Implement water use efficiency, outreach and education projects, address 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 44-53):**

- The rates are calculated by dividing the annual debt service and reserve requirements (2012A, 2015A, and 2019A Water Revenue Bonds) by water deliveries. FY19-20 new money financing (Water Revenue Bonds 2019A): Total \$11.01M at 2.44% for 25 years (matures in 2044).

Storage and Common Bond/Loan Charges	Increase (Decrease) in Dollars	Percent Change	Description
Storage Bond/Loan Charge	(\$1.16)	-4.8%	Fiscal Year 2020-2021 rate is \$24.28. Rate is based on revenue requirement for debt service divided by water deliveries. Rate decrease is due to increase in budgeted water deliveries.
Common Bond/Loan Charge	(\$3.77)	-3.9%	Fiscal Year 2020-2021 rate is \$97.16. Rate is based on revenue requirement for debt service divided by water deliveries. Rate decrease is due to increase in budgeted water deliveries.
Sonoma Aqueduct Bond/Loan Charge	(\$9)	-6.3%	Fiscal Year 2020-2021 rate is \$135.26. Sonoma Aqueduct pays an additional revenue bond charge for the bonds associated with the Eldridge-Madrone Pipeline Project. Rate is based on revenue requirement for debt service divided by water deliveries. Rate decrease is due to increase in budgeted water deliveries.

- **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 2020-2021 budget included a rate per AF of \$27 for the Santa Rosa and Petaluma Aqueducts, and \$32 for the Sonoma Aqueduct.
- The FY 2021-2022 draft budget includes a \$20 per Acre-Foot charge for the Santa Rosa and Petaluma Aqueducts, and \$38 per Acre-Foot charge for the Sonoma Aqueduct.
- Aqueduct Capital Charges provide rate stabilization capacity and funding for future hazard mitigation projects.

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

- 3.47% (Santa Rosa and Petaluma Aqueducts); 3.43% (Sonoma Aqueduct)

- FY 2021-2022 budgeted deliveries are based on the average annual water deliveries for the past 36 months (46,095 AF). FY 2021-2022 budgeted deliveries are 5.46% more than FY 2020-2021 budgeted deliveries.
- The FY2021-2022 budget accommodates an increase in maintenance projects (cathodic protection, pump and valve replacements, chlorine and pH improvement projects), studies (Regional Water Supply Resiliency, Watershed and Riverbank Filtration Water Quality Studies and fire related water quality studies), emergency response planning and training, Biological Opinion Flow EIR and Dry Creek Habitat Enhancement design and right-of-way for phases 4, 5, and 6, and construction for phases 4 and 5; and investment in hazard mitigation and other capital infrastructure projects.

Changes made since January 19, 2021 Draft Water Transmission Budget: reduced costs by \$1.4 million:

- Decreased capital project costs in Common Facilities
- Decreased transfer from O&M to Common Facilities
- Increased use of fund balance in Subfunds
- Decreased costs in Water Conservation Subfund
- Water contractors elected to decrease discretionary aqueduct capital charge

## FY 2021-2022 Capital Projects

(Budget Packet Pages 33-43):

Water Transmission Budget		FY21-22	
Capital Projects Summary			
Project	Category	Amount	Status
Santa Rosa Creek Crossing	Santa Rosa AQ	800,000	FY20-21: 60% design; award FY21-22
Ely BPS Flood Control & Electrical Upgrade	Petaluma AQ	202,411	FY20-21: 60% design; award FY21-22
SBS Electrical Upgrade and Pumping Reliability	Sonoma AQ	25,000	Under construction; construction management FY21-22
Sonoma AQ Crossing of Spring Creek & Bennett Valley Fault Cross	Sonoma AQ	25,000	Preliminary design
LHMP-Bennet Valley Fault Crossing (Oakmont Pipeline)	Storage	25,000	Preliminary design
Mirabel Dam Bladder Replacement	Common	255,250	Awarded FY20-21; inspection costs FY21-22
Mirabel RR Crossing Fiber Optic Cable Relocation	Common	370,000	Part of Russian River Crossing Project
Mirabel Storage Shed	Common	-	Delaying
MW Creek Crossing	Common	3,500,000	FY20-21: 90% design; award FY21-22
RDS Pump and Motor Control Center Replacement	Common	183,784	Costs to advance design
RR Crossing	Common	709,290	Awarded FY20-21; construction management FY21-22
Warm Springs Dam Hydroturbine Retrofit	Common	2,497,265	Award July 2021
Wohler Bridge Fiber Optic Cable	Common	150,000	Public Works Project expected to occur this summer
Wohler Plant Access Rd. Retaining Wall	Common	21,100	FY20-21: 60% design; award FY21-22
SCADA Upgrade	Common	750,000	Complete by 12/31/21
	TOTAL	9,514,100	
	Santa Rosa AQ	800,000	
	Petaluma AQ	202,411	
	Sonoma AQ	50,000	
	Storage	25,000	
	Common	8,436,689	
		9,514,100	

**Sonoma County Water Agency**  
**FY2021-2022 Draft Water Transmission Budget and Rates**

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FY2021-2022

## Prime Contractor Rates Summary

	CHARGE PER ACRE FOOT:						Percent Change
	Santa Rosa	Petaluma	Sonoma				
	Aqueduct	Aqueduct	Aqueduct	FY20-21			
				SR	Pet	Son	
O&M Charge [4.2]	685.92	685.92	685.92	\$656.51	\$656.51	\$656.51	4.48%
Water Management Planning Sub-charge [4.13]	0.00	0.00	0.00	\$0.92	\$0.92	\$0.92	-99.46%
Watershed Planning/Restoration Sub-charge [4.14]	132.66	132.66	132.66	\$117.33	\$117.33	\$117.33	13.06%
Recycled Water & Local Supply Sub-charge [4.15]	0.93	0.93	0.93	\$0.94	\$0.94	\$0.94	-0.76%
Water Conservation Sub-charge [4.16]	44.44	44.44	44.44	\$42.81	\$42.81	\$42.81	3.81%
O&M Charge	863.95	863.95	863.95	\$818.51	\$818.51	\$818.51	5.55%
Storage and Common Bond & Loan Charges	116.51	116.51	116.51	\$121.44	\$121.44	\$121.44	-4.06%
Sonoma Aqueduct Bond Charge			126.72			\$135.26	-6.3%
PRIME CONTRACTORS	\$980.46	\$980.46	\$1,107.18	\$939.95	\$939.95	\$1,075.21	4.31%
Capital Charges - to build fund balance for future projects	20.00	20.00	38.00	\$27.00	\$27.00	\$32.00	-26%
PRIME CONTRACTORS	20.00	20.00	38.00	\$27.00	\$27.00	\$32.00	-26%
TOTAL PRIME CONTRACTORS	\$1,000.46	\$1,000.46	\$1,145.18	\$966.95	\$966.95	\$1,107.21	3.47%
Increase from FY2020-2021	3.47%	3.47%	3.43%	5.30%	5.30%	5.57%	

## Deliveries:

	12-month	36-month
FY13-14	45,960	
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

FY2021-2022

# Prime Contractor Rates Summary

## CHARGE PER ACRE FOOT:

### Petaluma AQ

	<u>NMWD</u>	<u>NMWD</u>	<u>Percent Change</u>
	<u>FY21-22</u>	<u>FY20-21</u>	
<b><u>O&amp;M Charge [4.2]</u></b>	685.92	\$656.51	4.48%
<b>Water Management Planning Sub-charge [4.13]</b>	0.00	\$0.92	-99.46%
<b>Watershed Planning/Restoration Sub-charge [4.14]</b>	132.66	\$117.33	13.06%
<b>Recycled Water &amp; Local Supply Sub-charge [4.15]</b>	0.93	\$0.94	-0.76%
<b>Water Conservation Sub-charge [4.16]</b>	44.44	\$42.81	3.81%
<b>O&amp;M Charge</b>	863.95	\$818.51	5.55%
<b>North Marin Bond &amp; Loan Charge [4.9]</b>	56.82	\$67.69	-16.05%
<b>Russian River Conservation Charge [4.18 (a)]</b>	115.94	\$106.12	9.25%
<b>Russian River Projects Charge [4.18 (b)]</b>	10.63	\$8.68	22.47%
<b><u>TOTAL NMWD</u></b>	<b><u>\$1,047.34</u></b>	<b><u>\$1,001.00</u></b>	<b><u>4.63%</u></b>

WATER TRANSMISSION SYSTEM  
FY21-22 WATER CHARGES PER ACRE-FOOT  
FOR PRIME CONTRACTORS

FISCAL YEAR	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)
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%
2000 - 2001	330.76	6.72%	331.61	6.60%	320.74	7.60%

**WATER TRANSMISSION SYSTEM  
FY21-22 REVENUE SUMMARY CHART**

WATER CUSTOMER	FY21-22 Budgeted Water Use (Acre-Feet)	FY20-21 Rate \$/Acre-Foot	FY21-22 Proposed Rate \$/Acre-Foot	Dollar Change	Percent Change
Santa Rosa Aqueduct	17,807	\$966.95	\$1,000.46	\$33.51	3.47%
Petaluma Aqueduct	10,053	966.95	1,000.46	\$33.51	3.47%
Sonoma Aqueduct	4,201	1,107.21	1,145.18	\$37.97	3.43%
North Marin Water District	6,224	1,001.00	1,047.34	\$46.34	4.63%
Marin Municipal – Fourth Off Peak	4,300	1,188.11	1,237.08	\$48.97	4.12%
Marin Municipal – Supplemental	1,469	1,188.11	1,237.08	\$48.97	4.12%
Forestville Aqueduct	404	966.95	1,000.46	\$33.51	3.47%
Wholesale/Municipal	1,015	1,328.64	1374.214	\$45.57	3.43%
Surplus	101	982.21	1,036.74	\$54.53	5.55%
Windsor	521	1,160.34	1,000.46	(\$159.88)	-13.78%
<b>TOTAL</b>	46,095				



**SONOMA COUNTY WATER AGENCY RATES FOR WATER DELIVERIES IN FY21-22**

**[X] ESTIMATED    [ ] OFFICIAL**

**Approved by Board of Directors on April \_\_\_\_, 2021**

**CHARGE PER ACRE FOOT:**

	Santa Rosa Aqueduct	Petaluma Aqueduct	Sonoma Aqueduct
<b>PRIME CONTRACTORS</b>			
<u>O&amp;M Charge [4.2]</u>	\$685.92	\$685.92	\$685.92
Water Management Planning Sub-charge [4.13]	\$0.00	\$0.00	\$0.00
Watershed Planning/Restoration Sub-charge [4.14]	\$132.66	\$132.66	\$132.66
Recycled Water & Local Supply Sub-charge [4.15]	\$0.93	\$0.93	\$0.93
Water Conservation Sub-charge [4.16]	\$44.44	\$44.44	\$44.44
O&M Charge	\$863.95	\$863.95	\$863.95
 <u>Bond &amp; Loan Charges - to pay for existing debt service</u>			
Storage Facilities Capital Charge [4.7]	23.12	23.12	23.12
Common Facilities Capital Charge [4.8]	93.39	93.39	93.39
Sonoma Aqueduct Facilities Capital Charges [4.6 b]			126.72
<u>Total Bond &amp; Loan Charges</u>	\$116.51	\$116.51	\$243.23
 <u>Discretionary:</u>			
<u>Aqueduct Capital Charges - to build fund balance for future projects</u>			
Aqueduct Facilities Capital Charges [4.6 e]	20.00	20.00	38.00
 LRT2 - included in Recycled Water & Local Supply Sub-Charge above.			
<b>TOTAL PRIME CONTRACTORS</b>	<b>\$1,000.46</b>	<b>\$1,000.46</b>	<b>\$1,145.18</b>
Charge without LRT2 and voluntary AQ Capital Charge	\$980.46	\$980.46	\$1,107.18
<b>OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES</b>			
<b><u>(WATER CO'S &amp; PUBLIC AGENCIES)</u></b>			
O&M Charge	\$863.95	\$863.95	\$863.95
Capital Charges	116.51	116.51	243.23
Aqueduct Facilities Capital Charge [4.12]	\$393.75	\$393.75	\$267.03
<b>TOTAL OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES (4.12)</b>	<b>\$1,374.21</b>	<b>\$1,374.21</b>	<b>\$1,374.21</b>
(120% OF HIGHEST PRIME)			
<b>FORESTVILLE</b>			0.01
O&M Charge [4.2] *	\$685.92		
Water Management Planning Sub-charge [4.13]	0.00		
Watershed Planning/Restoration Sub-charge [4.14]	132.66		
Recycled Water & Local Supply Sub-charge [4.15]	0.93		
Water Conservation Sub-charge [4.16]	44.44		
O&M Charge	\$863.95		
<u>Bond &amp; Loan Charges - to pay for existing debt service</u>			
Aqueduct Facilities Capital Charges [4.6]	20.00		
Storage Facilities Capital Charge [4.7]	23.12		
Common Facilities Capital Charge [4.8]	93.39		
<u>Total Capital Charges</u>	\$136.51		
<b>TOTAL FORESTVILLE</b>	<b>\$1,000.46</b>		
* Forestville Water District was exempt from Santa Rosa Aqueduct sub-charge from FY 06/07 to FY 16/17 [4.12].			
<b><u>NORTH MARIN WATER DISTRICT</u></b>			
O&M Charge		\$863.95	Note: N. Marin pays bond and loan charge in lieu of Capital Charge.
North Marin Bond & Loan Charge [4.9]		56.82	
Russian River Conservation Charge [4.18 (a)]		115.94	
Russian River Projects Charge [4.18 (b)]		10.63	
<b>TOTAL NORTH MARIN WATER DISTRICT</b>		<u>1,047.34</u>	
<b><u>FOURTH OFF-PEAK (MARIN MUNICIPAL)</u></b>			
Highest Prime on SR and PET AQ x 1.11		\$1,110.51	
Russian River Conservation Charge		115.94	
Russian River Projects Charge		10.63	
<b>TOTAL FOURTH OFF-PEAK</b>		<u>\$1,237.08</u>	
<b><u>SUPPLEMENTAL (MARIN MUNICIPAL)</u></b>			
Highest Prime on SR and PET AQ x 1.11		\$1,110.51	
Russian River Conservation Charge		115.94	
Russian River Projects Charge		10.63	
<b>TOTAL SUPPLEMENTAL</b>		<u>\$1,237.08</u>	
<b><u>SURPLUS</u></b>			
Non-Municipal / Municipal [4.11 (a)]	\$1,036.74	\$1,036.74	\$1,036.74
(120% of O&M Charge)			
<b>Town of Windsor</b>		\$1,000.46	
Town of Windsor is charged 120% of the highest charge for any other prime contractor on the Santa Rosa Aqueduct from FY 06/07 to FY 21/22 [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)].			
	\$1,000.46		

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

**FY 2021-22 BUDGET**  
**SONOMA COUNTY WATER AGENCY**  
*Operations and Maintenance Rate Computation*

**O & M REVENUE REQUIREMENT**

**FY21-22    ESTIMATED FISCAL YEAR EXPENDITURES** \$54,548,404

**LESS:**

DepreciationAmortization	8,036,000
Investment Income, Interest on Pooled Cash, Charges for Services	36,000
Power Sales	100,000
PWRPA Pre-paid Expense - FY 08/09 Rate Reduction- <i>One time only</i>	
"Mandatory Prudent Reserve" charge	
Recycled Water funds (Sub-object 7277) taken from special reserve	0
Transfers Out	13,908,250

REVENUE REQUIREMENT (Net Expenditures)	\$32,468,154
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**O & M ACRE FOOT BASE**

DELIVERIES:	46,095.3
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**LESS:**

Marin Municipal	5,769.3
Surplus (Irrigation)	98.4

TOTAL BASE DELIVERIES	40,227.6
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**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

$$= \frac{32,468,154 - (4,300.00 \times 845.05) - (1,469.33 \times 845.05)}{46,095.3 - 98.4 - 5,769.3}$$

\* = 685.92

**FY21-22**  
**Proposed Water Rates**

	<b><u>FY20-21</u></b>	<b><u>FY21-22</u></b>	
	<b>(Actual)</b>	<b>(Proposed)</b>	<b>% Change</b>
O&M Charge	656.51	685.92	4.48%
Water Management Planning Sub-Charge	0.92	0.00	-99.46%
Watershed Planning/Restoration Sub-Charge	117.33	132.66	13.06%
Recycled Water Sub-Charge	0.94	0.93	-0.76%
Water Conservation Sub-Charge	42.81	44.44	3.81%
<b>Total O&amp;M Charge</b>	<b>818.51</b>	<b>863.95</b>	<b>5.55%</b>

**Santa Rosa Aqueduct Rate**

O&M Charge	818.51	863.95	5.55%
Aqueduct Facilities Capital Charges [4.6 e]	27.00	20.00	-25.9%
Storage Facilities Capital Charge [4.7]	24.28	23.12	-4.79%
Common Facilities Capital Charge [4.8]	97.16	93.39	-3.88%
<b>TOTAL</b>	<b>966.95</b>	<b>1000.46</b>	<b>3.47%</b>

**Petaluma Aqueduct Rate**

O&M Charge	818.51	863.95	5.55%
Aqueduct Facilities Capital Charges [4.6 e]	27.00	20.00	-25.9%
Storage Facilities Capital Charge [4.7]	24.28	23.12	-4.79%
Common Facilities Capital Charge [4.8]	97.16	93.39	-3.88%
<b>TOTAL</b>	<b>966.95</b>	<b>1000.46</b>	<b>3.47%</b>

**Sonoma Aqueduct Rate**

O&M Charge	818.51	863.95	5.55%
Aqueduct Facilities Capital Charges [4.6 e]	32.00	38.00	18.8%
Storage Facilities Capital Charge [4.7]	24.28	23.12	-4.79%
Common Facilities Capital Charge [4.8]	97.16	93.39	-3.88%
Sonoma Aqueduct Facilities Capital Charge	135.26	126.72	-6.31%
<b>TOTAL</b>	<b>1107.21</b>	<b>1145.18</b>	<b>3.43%</b>

**SONOMA COUNTY WATER AGENCY**  
**RUSSIAN RIVER CONSERVATION CHARGE COMPUTATION**

**FISCAL YEAR 2021-22**

**PROPERTY ASSESSMENT VALUES AS OF FY20-21:**

<u>TAX CODE</u>	<u>ENTITY</u>	<u>SECURED</u>	<u>UNSECURED</u>	<u>TOTAL VALUE</u>
14000	Forestville Co Water District	470,126,418	2,432,566	\$472,558,984
42800	City of Cotati	1,216,318,370	27,665,079	1,243,983,449
43500	City of Petaluma	10,758,598,273	466,845,187	11,225,443,460
43800	City of Rohnert Park	6,019,197,873	148,611,950	6,167,809,823
44500	City of Santa Rosa	25,988,958,480	806,171,563	26,795,130,043
45000	City of Sonoma	3,089,579,981	89,202,824	3,178,782,805
N/A	Valley of the Moon Water District	3,799,224,241	30,066,078	3,829,290,319
<b>TOTAL</b>		<b>\$51,342,003,636</b>	<b>\$1,570,995,247</b>	<b>\$52,912,998,883</b>

**Notes:**

- 1 Total value of secured and unsecured property in service areas of Prime Water Contractors of Sonoma County (see above) \$52,912,998,883
- 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 \$3,703,910
- 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. 31,945.69
- 5 Total Russian River Conservation Charge per Acre Foot (Line 3 / Line 4) \$115.94

**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	<b>\$10.63</b>	<b>\$115.94</b>

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

		DELIVERING AQUEDUCT				Monthly
		Santa Rosa	Petaluma	Forestville	Sonoma	Total
36	Jan-18	1,307.1	1,496.0	25.4	228.5	3,057.1
35	Feb-18	1,097.9	1,292.8	20.2	210.7	2,621.6
34	Mar-18	1,059.5	1,691.3	19.3	179.0	2,949.0
33	Apr-18	1,361.0	2,012.0	27.2	267.7	3,667.9
32	May-18	1,475.9	2,043.2	29.0	340.3	3,888.4
31	Jun-18	1,825.4	2,338.6	37.5	406.5	4,608.0
30	Jul-18	2,244.4	2,877.4	53.4	577.1	5,752.3
29	Aug-18	1,748.3	2,239.0	47.9	446.1	4,481.3
28	Sep-18	1,681.1	2,073.3	44.8	411.1	4,210.4
27	Oct-18	1,931.3	2,273.1	43.0	449.9	4,697.3
26	Nov-18	1,409.2	1,759.8	28.8	329.2	3,527.0
25	Dec-18	1,326.0	1,720.4	24.2	299.4	3,370.1
24	Jan-19	1,002.3	1,176.4	19.0	198.2	2,396.0
23	Feb-19	1,098.3	1,137.9	18.4	176.0	2,430.7
22	Mar-19	1,165.9	1,028.0	20.8	164.9	2,379.6
21	Apr-19	1,265.0	1,794.2	24.6	177.3	3,261.2
20	May-19	1,117.0	2,055.4	29.2	264.6	3,466.1
19	Jun-19	1,588.5	2,062.7	32.1	315.4	3,998.7
18	Jul-19	2,297.8	2,778.4	51.7	538.0	5,666.1
17	Aug-19	1,872.0	2,185.7	48.2	456.5	4,562.4
16	Sep-19	1,734.9	2,078.1	41.9	457.0	4,311.9
15	Oct-19	2,000.5	2,290.4	48.3	514.5	4,853.8
14	Nov-19	1,502.4	1,484.6	40.2	410.9	3,438.0
13	Dec-19	1,307.8	1,339.8	18.4	276.7	2,942.8
12	Jan-20	1,029.5	1,198.3	18.9	168.7	2,415.4
11	Feb-20	1,100.9	1,411.3	20.3	170.5	2,702.9
10	Mar-20	1,258.5	1,644.6	22.2	268.9	3,194.3
9	Apr-20	1,483.7	1,749.8	27.9	289.9	3,551.3
8	May-20	1,532.6	1,713.9	30.7	356.7	3,633.9
7	Jun-20	1,700.7	2,162.3	42.3	471.0	4,376.3
6	Jul-20	2,458.9	2,844.2	55.9	631.6	5,990.6
5	Aug-20	1,889.6	2,304.7	47.2	532.0	4,773.5
4	Sep-20	1,656.9	2,133.9	42.0	444.3	4,277.1
3	Oct-20	2,108.6	2,653.4	52.5	522.1	5,336.7
2	Nov-20	1,318.5	2,013.1	31.8	360.4	3,723.7
1	Dec-20	1,329.1	2,126.5	27.3	289.9	3,772.8
<b>Total Deliveries</b>		55,287.1	69,184.4	1,212.6	12,601.8	138,285.8
<b>3-Year Annual Average</b>		18,429.0	23,061.5	404.2	4,200.6	46,095.3
<b>Past 12 Months</b>		18,867.4	23,956.0	418.9	4,506.1	47,748.4
Total Deliveries		55,287.1	69,184.4	1,212.6	12,601.8	138,285.8
Less: North Marin			18,671.0			18,671.0
Marin Municipal			17,308.0			17,308.0
<b>Sonoma Co. Deliveries</b>		55,287.1	33,205.4	1,212.6	12,601.8	102,306.8
<b>3-Year Annual Average</b>		18,429.0	11,068.5	404.2	4,200.6	34,102.3

**SONOMA COUNTY WATER AGENCY**  
**SCHEDULE OF ACTUAL PRIOR 12 MONTHS WATER DELIVERIES IN ACRE FEET (BY CUSTOMER TYPE)**  
**JANUARY THROUGH DECEMBER**

**SONOMA COUNTY WATER AGENCY**  
**ACTUAL WATER DELIVERY DISTRIBUTION BY AQUEDUCT (ACRE FEET)**  
**PRIOR 12 MONTHS**

Aqueduct No.	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	TOTAL	***** DELIVERING AQUEDUCT *****			
														Santa Rosa	Petaluma	Sonoma	TOTAL
<b>PRIMES</b>														<b>DELIVERED TO:</b>			
1 City of Santa Rosa	982.8	1,048.3	1,202.6	1,424.2	1,440.0	1,629.6	2,352.1	1,803.8	1,578.1	2,024.8	1,255.9	1,281.5	18,023.8	<b>CITY OF SANTA ROSA (A)</b>			
2 City of Petaluma	397.9	419.7	550.8	556.9	514.9	660.3	903.6	729.5	703.9	777.5	579.8	533.4	7,328.2	Jan 2020	858.6	0.0	124.2
2 North Marin Water Dist.	343.3	369.1	465.6	503.5	483.1	513.2	723.6	641.4	642.7	920.9	616.7	561.4	6,784.6	Feb 2020	917.4	0.0	131.0
2 City of Rohnert Park	107.4	113.5	123.4	137.8	195.2	227.4	324.4	254.5	221.5	278.2	217.6	209.6	2,410.5	Mar 2020	1,018.0	0.0	184.6
2 City of Cotati	19.6	21.0	27.0	33.3	40.8	59.3	79.9	64.7	67.8	77.9	53.0	44.5	588.8	Apr 2020	1,172.4	0.0	251.9
1 Town of Windsor	32.8	36.5	34.5	40.4	64.6	39.9	57.7	48.0	48.5	45.7	39.8	32.4	520.7	May 2020	1,146.6	0.0	293.4
4 City of Sonoma	78.4	81.7	130.5	145.0	153.8	203.8	259.8	232.4	181.6	223.4	165.6	129.3	1,985.4	Jun 2020	1,284.1	0.0	345.5
4 Valley of the Moon Dist.	79.0	77.9	122.9	130.0	185.7	244.1	335.9	259.4	230.5	259.5	166.5	135.0	2,226.2	Jul 2020	1,897.2	0.0	454.9
<b>TOTAL PRIMES</b>	<b>2,041.2</b>	<b>2,167.8</b>	<b>2,657.3</b>	<b>2,971.1</b>	<b>3,078.2</b>	<b>3,577.6</b>	<b>5,037.0</b>	<b>4,033.7</b>	<b>3,674.5</b>	<b>4,607.7</b>	<b>3,095.0</b>	<b>2,926.9</b>	<b>39,868.1</b>	Aug 2020	1,469.4	0.0	334.5
<b>OTHER AGENCY CUSTOMERS</b>														Sep 2020	1,300.6	0.0	277.5
1 Cal-American Water	12.3	15.3	20.3	13.4	23.0	24.9	39.9	31.6	25.3	35.8	21.7	14.7	277.9	Oct 2020	1,603.6	0.0	421.1
2 Penngrove Water Co	8.4	8.8	11.1	16.2	13.7	20.2	27.4	21.7	20.1	22.6	14.4	13.8	198.4	Nov 2020	1,016.9	0.0	239.1
4 Lawndale Mutual	1.4	1.8	3.3	3.6	4.2	5.0	8.1	7.8	6.7	7.7	5.5	4.8	59.8	Dec 2020	1,078.1	0.0	203.3
4 Kenwood Village Water Co	0.4	0.6	0.4	0.2	0.2	0.2	0.5	0.5	0.5	2.4	0.5	0.5	6.9	<b>TOTAL SANTA ROSA</b>	<b>14,762.9</b>	<b>0.0</b>	<b>3,260.9</b>
3 Forestville Co Water Dist.	18.9	20.3	22.2	27.9	30.7	42.3	55.9	47.2	42.0	52.5	31.8	27.3	418.9	<b>OTHER PRIME CONTRACTORS (B)</b>	<b>0.0</b>	<b>7,328.2</b>	<b>7,328.2</b>
1 Other Gov-Santa Rosa Aq	0.5	0.5	0.5	0.7	0.6	0.7	1.2	0.4	1.6	0.4	0.3	0.2	7.5	CITY OF PETALUMA		6,784.6	6,784.6
2 Other Gov-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CITY OF ROHNERT PARK	21.7	2,388.8	2,410.5
4 Other Gov-Sonoma Aq	7.5	6.4	8.8	8.0	8.9	11.4	18.8	21.9	18.0	21.9	18.0	17.4	167.0	CITY OF COTATI	44.1	544.7	588.8
<b>TOTAL OTHER AGY. CUST</b>	<b>49.3</b>	<b>53.6</b>	<b>66.6</b>	<b>69.9</b>	<b>81.2</b>	<b>104.6</b>	<b>151.8</b>	<b>131.2</b>	<b>114.1</b>	<b>143.3</b>	<b>92.0</b>	<b>78.7</b>	<b>1,136.4</b>	TOWN OF WINDSOR	520.7		520.7
<b>OFF-PEAK CUSTOMERS</b>														CITY OF SONOMA		1,985.4	1,985.4
2 Marin Municipal	321.6	479.2	466.8	502.1	466.2	681.9	785.3	592.9	477.8	576.3	531.5	763.8	6,645.6	VALLEY OF THE MOON DISTRICT		2,226.2	2,226.2
<b>SURPLUS CUSTOMERS</b>														<b>TOTAL OTHER PRIME CONTRACTORS</b>	<b>586.5</b>	<b>17,046.3</b>	<b>4,211.5</b>
1 Irrigation-Santa Rosa Aq	1.2	0.2	0.6	5.0	4.4	5.7	8.0	5.6	3.5	2.0	0.9	0.3	37.5	<b>TOTAL DELIVERIES TO PRIMES</b>	<b>15,349.4</b>	<b>17,046.3</b>	<b>7,472.4</b>
2 Irrigation-Petaluma Aq	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>LESS: NORTH MARIN</b>		(6,784.6)	(6,784.6)
4 Irrigation-Sonoma Aq	2.0	2.1	2.9	3.2	3.9	6.5	8.6	10.2	7.1	7.3	4.3	2.9	60.9	<b>TOTAL SONOMA COUNTY DELIVERIES</b>	<b>15,349.4</b>	<b>10,261.7</b>	<b>7,472.4</b>
<b>TOTAL SURPLUS CUST.</b>	<b>3.2</b>	<b>2.4</b>	<b>3.5</b>	<b>8.2</b>	<b>8.3</b>	<b>12.1</b>	<b>16.5</b>	<b>15.8</b>	<b>10.6</b>	<b>9.3</b>	<b>5.1</b>	<b>3.2</b>	<b>98.4</b>				
<b>TOTAL DELIVERIES</b>	<b>2,415.4</b>	<b>2,702.9</b>	<b>3,194.3</b>	<b>3,551.3</b>	<b>3,633.9</b>	<b>4,376.3</b>	<b>5,990.7</b>	<b>4,773.5</b>	<b>4,277.1</b>	<b>5,336.7</b>	<b>3,723.7</b>	<b>3,772.8</b>	<b>47,748.4</b>				

**FY 2021-22 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
<b><u>WATER SALES - O&amp;M</u></b>			
1 PRIMES without Subcharges	39,209.5	685.92	26,894,512
2 OTHER AGENCY CUSTOMERS	1,015.5	1,196.18	1,214,695
3 MARIN MUNICIPAL (OFF-PEAK)	4,300.0	845.05	3,633,709
4 MARIN MUNICIPAL (SUPPLEMENTAL)	1,469.3	845.05	1,241,654
5 SURPLUS CUSTOMERS	101.0	858.71	86,689
<b>TOTAL WATER SALES - O&amp;M</b>	46,095.3	N/A	\$33,071,259

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
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	46,095.3	0.00	230
1b Watershed Planning/Restoration Sub-charge [4.14]	46,095.3	132.66	6,114,794
1c Recycled Water & Local Supply Sub-charge [4.15]	46,095.3	0.93	43,000
1d Water Conservation Sub-charge [4.16]	46,095.3	44.44	2,048,425
<b>TOTAL WATER SALES - Subcharges</b>	46,095.3	N/A	\$8,206,449

## FY 2021-22 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
<b><u>WATER SALES - O&amp;M</u></b>			
1 SANTA ROSA AQUEDUCT	18,429.0	685.92	12,640,802

#### Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	18,429.0	0.00	92
1b Watershed Planning/Restoration Sub-charge [4.14]	18,429.0	132.66	2,444,713
1c Recycled Water & Local Supply Sub-charge [4.15]	18,429.0	0.93	17,192
1d Water Conservation Sub-charge [4.16]	18,429.0	44.44	818,966
<b>TOTAL WATER SALES - Subcharges</b>	18,429.0	N/A	\$3,280,963

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	18,429.0	20.00	368,581
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	18,429.0	23.12	426,014
Common Facilities Capital Charge [4.8]	18,429.0	93.39	1,721,095
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	18,429.0	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	18,429.0	N/A	\$2,515,690

**TOTAL ESTIMATED REVENUE**

**\$18,437,455**



# FY 2021-22 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
<b><u>WATER SALES - O&amp;M</u></b>			
1 PETALUMA AQUEDUCT	23,061.5	685.92	15,818,266

### Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - Sub-charges</u></b>			
1a Water Management Planning Sub-charge [4.13]	23,061.5	0.00	115
1b Watershed Planning/Restoration Sub-charge [4.14]	23,061.5	132.66	3,059,230
1c Recycled Water & Local Supply Sub-charge [4.15]	23,061.5	0.93	21,513
1d Water Conservation Sub-charge [4.16]	23,061.5	44.44	1,024,826
<b>TOTAL WATER SALES - Subcharges</b>	23,061.5	N/A	\$4,105,684

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	23,061.5	20.00	461,229
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	23,061.5	23.12	533,099
Common Facilities Capital Charge [4.8]	23,061.5	93.39	2,153,719
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	23,061.5	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	23,061.5	N/A	\$3,148,047

**TOTAL ESTIMATED REVENUE**

**\$23,071,997**

# FY 2021-22 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
<b>WATER SALES - O&amp;M</b>			
1 SONOMA AQUEDUCT	4,200.6	685.92	2,881,267

### Sub-Object 4175, 4176, 4177, and 4178

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>WATER SALES - Sub-charges</b>			
1a Water Management Planning Sub-charge [4.13]	4,200.6	0.00	21
1b Watershed Planning/Restoration Sub-charge [4.14]	4,200.6	132.66	557,233
1c Recycled Water & Local Supply Sub-charge [4.15]	4,200.6	0.93	3,919
1d Water Conservation Sub-charge [4.16]	4,200.6	44.44	186,670
<b>TOTAL WATER SALES - Subcharges</b>	4,200.6	N/A	\$747,843

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b>CAPITAL CHARGES</b>			
Aqueduct Facilities Capital Charges [4.6 e]	4,200.6	38.00	159,623
<b>BOND AND LOAN CAPITAL CHARGES</b>			
Storage Facilities Capital Charge [4.7]	4,200.6	23.12	97,103
Common Facilities Capital Charge [4.8]	4,200.6	93.39	392,296
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	4,200.6	126.72	532,318
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	4,200.6	N/A	\$1,181,340

**TOTAL ESTIMATED REVENUE**

**\$4,810,450**

# FY 2021-22 BUDGET BEGINNING AND ENDING CASH SUMMARY

Section Title:

Water Transmission System Agency Fund

Fund/Department No:

44205

33040100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>10,923,333</b>	<b>18,302,676</b>		<b>7,523,711</b>		

## REVENUES

### USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	440,828	165,750	165,750	36,000	(129,750)	(78.28%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(32,837)	(120,000)	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
<b>SUBTOTAL</b>	<b>407,991</b>	<b>45,750</b>	<b>165,750</b>	<b>36,000</b>	<b>(129,750)</b>	<b>(78.28%)</b>

### INTERGOVERNMENTAL REVENUES

42282 State CalOES Disaster Funding	75,313	0	0	0	0	N/A
42284 State Cal OES Admin Allowance	7,532	0	0	0	0	N/A
42358 State Other Funding	0	0	0	0	0	N/A
42441 Federal FEMA Disaster Funding	301,251	0	0	0	0	N/A
42443 Federal FEMA Admin Allowance	10,244	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
<b>SUBTOTAL</b>	<b>394,340</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

### 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	23,820	16,000	0	0	0	N/A
45301 Charges for Services	210,022	(108,000)	0	0	0	N/A
45314 Sale - Power	26,385	25,000	100,000	100,000	0	0.00%
45315 Sale - Water, Wholesale	28,865,328	30,167,874	30,167,874	33,071,259	2,903,385	9.62%
45316 Water Conservation	2,202,440	1,870,952	1,870,952	2,048,425	177,473	9.49%
45323 Common Fac Rev Bond Chg	3,102,444	3,545,690	3,545,690	3,529,049	(16,641)	(0.47%)
45324 Storage Fac Rev Bond Chg	1,065,782	797,136	797,136	785,991	(11,146)	(1.40%)
45325 Sonoma Aqueduct Rev Bond Chg	563,693	534,306	534,306	532,318	(1,988)	(0.37%)
45327 Santa Rosa Aqueduct Cap Chg	607,374	546,474	546,474	449,129	(97,345)	(17.81%)
45328 Petaluma Aqueduct Cap Chg	354,023	332,486	332,486	253,676	(78,810)	(23.70%)
45329 Sonoma Aqueduct Cap Chg	260,937	184,000	122,845	151,642	28,797	23.44%
45330 North Marin Rev Bond Chg	318,312	355,399	355,399	353,652	(1,747)	(0.49%)
45331 Water Mgmt Plan/Restore Chg	53,498	40,000	40,000	230	(39,770)	(99.43%)
45332 Watershed Plan/Restore Chg	4,830,925	5,128,067	5,128,067	6,114,794	986,727	19.24%
45333 Recycled Water & Local Supply	138,879	41,000	41,000	43,000	2,000	4.88%
45401 Revenue Appl PY Chgs for Svcs	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>42,623,862</b>	<b>43,476,384</b>	<b>43,582,229</b>	<b>47,433,165</b>	<b>3,850,936</b>	<b>8.84%</b>

### Miscellaneous Revenues

46027 Insurance Claims Reimbursement	1,438,751	0	0	0	0	N/A
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## Section Title:

## Water Transmission System Agency Fund

## Fund/Department No:

44205

33040100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	6,206	5,000	0	0	0	N/A
46041 Discounts Earned	6	15	0	0	0	N/A
46050 Cancelled/Stale Dated Warrants	0	500	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	129,486	4,500	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
<b>SUBTOTAL</b>	<b>1,574,449</b>	<b>10,015</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
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
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL REVENUES</b>	<b>45,000,641</b>	<b>43,532,149</b>	<b>43,747,979</b>	<b>47,469,165</b>	<b>3,721,186</b>	<b>8.51%</b>

## 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	6,240	9,495	6,600	6,600	0	0.00%
51041 Insurance - Liability	0	11,000	11,000	11,000	0	0.00%
51061 Maintenance - Equipment	915,932	1,111,809	1,065,000	1,465,000	400,000	37.56%
51071 Maintenance - Bldg & Improve	1,366	0	0	0	0	N/A
51072 Landscaping Services	0	100,000	0	0	0	N/A
51077 Maint-Infrastructure	0	0	0	0	0	N/A
51083 VSP Premiums	0	220	220	220	0	0.00%
51205 Advertising/Marketing Svc	0	100	100	100	0	0.00%
51209 Information Tech Svc (non ISD)	120	1,500	1,500	1,500	0	0.00%
51211 Legal Services	13,179	11,500	11,500	12,000	500	4.35%
51212 Outside Counsel - Legal Advice	0	100,700	1,200	1,200	0	0.00%
51214 Agency Extra/Temp Help	0	0	0	0	0	N/A
51226 Consulting Services	0	25,091	0	0	0	N/A
51230 Security Services	2,676	2,600	2,600	2,600	0	0.00%
51231 Testing/Analysis	124,332	145,000	125,000	135,000	10,000	8.00%
51241 Outside Printing and Binding	1,016	2,500	2,500	2,500	0	0.00%
51242 Bank Charges	30	50	50	50	0	0.00%
51244 Permits/License/Fees	109,031	90,000	65,000	90,000	25,000	38.46%
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	480,577	425,000	425,000	500,000	75,000	17.65%
51421 Rents and Leases - Bldg/Land	0	1,600	1,600	1,600	0	0.00%
51601 Training Services	3,160	18,000	18,000	18,000	0	0.00%
51602 Business Travel/Mileage	6,207	10,000	10,000	10,000	0	0.00%
51605 Private Car Expense	602	1,100	1,100	1,100	0	0.00%
51801 Other Services	0	10,000	10,000	10,000	0	0.00%
51803 Other Contract Services	2,771,055	11,607,726	6,503,910	5,876,645	(627,265)	(9.64%)
51902 Telecommunication Usage	43,278	85,000	85,000	85,000	0	0.00%

## Section Title:

## Water Transmission System Agency Fund

## Fund/Department No:

44205

33040100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
51911 Mail Services	137	150	150	150	0	0.00%
51917 District Operations Chgs	14,796,660	15,774,671	15,774,671	16,649,480	874,809	5.55%
51921 Equipment Usage Charges	859,329	950,000	950,000	900,000	(50,000)	(5.26%)
52021 Clothing, Uniforms, Personal	4,285	13,500	13,500	13,500	0	0.00%
52031 Food	269	700	700	700	0	0.00%
52041 Household Supplies Expense	0	300	300	300	0	0.00%
52042 Janitorial Supplies	231	1,000	1,000	1,000	0	0.00%
52061 Fuel/Gas/Oil	43,263	7,100	7,100	45,000	37,900	533.80%
52071 Materials and Supplies Expense	22,723	56,438	6,000	30,000	24,000	400.00%
52072 Chemicals	681,114	900,000	900,000	900,000	0	0.00%
52081 Medical/Laboratory Supplies	18,626	20,000	20,000	20,000	0	0.00%
52091 Memberships/Certifications	35,116	45,000	40,000	37,500	(2,500)	(6.25%)
52101 Other Supplies	0	30,000	30,000	0	(30,000)	(100.00%)
52111 Office Supplies	3,747	12,500	12,500	12,500	0	0.00%
52114 Freight/Postage	0	1,000	1,000	1,000	0	0.00%
52115 Books/Media/Subscriptions	1,119	500	500	500	0	0.00%
52117 Mail and Postage Supplies	1,207	5,500	1,500	1,500	0	0.00%
52141 Minor Equipment/Small Tools	99,377	155,150	155,000	150,000	(5,000)	(3.23%)
52142 Computer Equipment/Accessories	1,732	7,000	7,000	10,000	3,000	42.86%
52143 Computer Software/Licensing Fees	28,998	40,000	40,000	40,000	0	0.00%
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities	441	500	500	500	0	0.00%
52193 Utilities - Electric	3,264,531	3,500,000	3,500,000	3,500,000	0	0.00%
<b>SUBTOTAL</b>	<b>24,341,706</b>	<b>35,291,000</b>	<b>29,808,301</b>	<b>30,543,745</b>	<b>735,444</b>	<b>2.47%</b>
<b>OTHER CHARGES</b>						
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	6,456,095	7,762,000	7,762,000	7,982,000	220,000	2.83%
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	0	0	N/A
53610 Other Charges	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>6,459,527</b>	<b>7,816,000</b>	<b>7,816,000</b>	<b>8,036,000</b>	<b>220,000</b>	<b>2.81%</b>
<b>FIXED ASSETS</b>						
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	0	0	0	0	0	N/A
19840 Work in Progress - Eqt	36,258	0	0	190,000	190,000	N/A
19841 Work in Progress - Intang	282	0	0	223,720	223,720	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>36,540</b>	<b>0</b>	<b>0</b>	<b>413,720</b>	<b>413,720</b>	<b>N/A</b>

## Section Title:

Water Transmission System Agency Fund

## Fund/Department No:

44205

33040100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	13,292,244	19,020,113	12,990,358	15,554,939	2,564,581	19.74%
57012 Transfers Out - btw Govtl Fund	60,000	0	0	0	0	N/A
SUBTOTAL	13,352,244	19,020,113	12,990,358	15,554,939	2,564,581	19.74%
<b>APPROP. FOR CONTINGENCIES</b>						
55011 Appropriation for Contingency	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>REMIBURSEMENTS</b>						
58010 Reimb. - General	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>ADMIN. CONTROL ACCOUNT</b>						
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
<b>TOTAL EXPENDITURES</b>	<b>44,190,017</b>	<b>62,127,113</b>	<b>50,614,659</b>	<b>54,548,404</b>	<b>3,933,745</b>	<b>7.77%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Depreciation	6,459,527	7,816,000		8,036,000		
Donated Asset (Caltrans)	0					
Outstanding Encumbrances - Net Change	115,506	0				
Capitalized Interest	0					
Gain/Loss on disposal of fixed assets	0					
Unrealized Gain/ Loss (GASB 31)	32,837					
Change in Prepaid Expense	25,671					
Change in Prudent Reserve						
Post audit adjustments - Payables	(64,822)					
Rounding	(1)					
<b>ENDING FUND BALANCE</b>	<b>18,302,676</b>	<b>7,523,711</b>		<b>8,480,472</b>		

Operations and Maintenance 44205 Fund Balance Reserve Goal  
Over/(Under) Goal

7,739,366  
741,106

**Water Transmission System Agency Fund**  
**Major Services & Supplies Expenditure Items**

Fund/Department No:

**44205**

**33040100**

	Actual FY19-20	Adopted FY20-21	Requested FY21-22	Difference	Percent Change
<u>51061 Maintenance - Equipment</u>	915,932	1,065,000	1,465,000	400,000	37.6%
Increase for collector well pump and valve replacements and chlorine and pH projects to build system resiliency.					
<u>51211 Legal Services</u>	13,179	11,500	12,000	500	4.3%
Reflects five year average expenditures.					
<u>51231 Testing/Analysis</u>	124,332	125,000	135,000	10,000	8.0%
Increase due to fire-related water quality testing.					
<u>51803 Other Contract Services</u>	2,771,055	6,503,910	5,876,645	(627,265)	-9.6%
Decrease due to tank maintenance contracting delays and change in approach. Tank maintenance program will cost an estimated \$1 million per year (prior year budgets will roll forward). Recoat projects will be bid under separate contracts.					
<u>51917 District Operations Chgs</u>	14,796,660	15,774,671	16,649,480	874,809	5.5%
Increase attributable to increase in maintenance to build system resiliency (pumps, pipes, valves, chlorine and pH projects), and regional water supply resiliency, water quality studies, and emergency response planning and training.					
<u>51921 Equipment Usage Charges</u>	859,329	950,000	900,000	(50,000)	-5.3%
Reflects five year average expenditures.					
<u>52072 Chemicals</u>	681,114	900,000	900,000	0	0.0%
No increase anticipated over FY2020-2021 budget.					
<u>52141 Minor Equipment/Small Tools</u>	99,377	155,000	150,000	(5,000)	-3.2%
Reflects five year average expenditures.					
<u>52193 Utilities - Electric</u>	3,264,531	3,500,000	3,500,000	0	0.0%
No increase anticipated over FY2020-2021 budget.					

**2021-22**

**Water Transmission System Agency Fund**

<b>51061</b>	<b>Maintenance - Equipment</b>	<b>AMOUNT</b>
1	Cotati AQ Repair-Peterson Hole	70,000
2	Collector 3 Pump 6 Bowl Assembly	110,000
3	Collector 3 Pump 6 Column Set Assembly	310,000
4	Collector 5 Replacement Pump Control Valves	80,000
5	Dunbar Meter Vault Removal	20,000
6	Electrical Supplies and Maintenance Services	355,000
7	Groundwater Monitoring Instruments	25,000
8	Hardware and Miscellaneous Supplies	50,000
9	Mainline Valve Replacement	200,000
10	Pump and Pipeline Supplies and Maintenance Services	50,000
11	Riverfront Park Maintenance - Regional Parks	150,000
12	Santa Rosa Plain Well Monitoring Program (SW Wells)	25,000
13	WT Monitoring Well Pressure Transducers	20,000
		<b>\$ 1,465,000</b>

<b>51803</b>	<b>Other Contract Services</b>	<b>AMOUNT</b>
1	Aqueduct Condition Assessments	200,000
2	As-Needed Dive Services	50,000
3	Asset Management	300,000
4	Cathodic Protection - Maintenance	109,100
5	Cathodic Protection - SR/Cotati	3,120,045
6	Chlorine Systems Assessment for Mirabel and Wohler	200,000
7	Collector 3,5,6 Seismic Mitigation Planning	250,000
8	Crane and Hoist Inspection and Certification	50,000
9	Hazardous Materials Management	40,000
10	LHMP Program Planning	30,000
11	Maintenance Agreements	200,000
12	pH System Assessment and Update	200,000
13	SCADA Improvements	250,000
14	Sonoma Youth Ecology Corps	32,000
15	Water Transmission System Fire Related Vegetation Maintenan	200,000
16		
17	Community Outreach Program	10,000
18	Integrated Water Management Plan	
19	Bay Area	5,500
20	North Coast	75,000
21	Legislative Advocacy - Federal	95,000
22	Legislative Advocacy - State	45,000
23	North Bay Water Regional Outreach Coordination	25,000
24	Hydrography Study	15,000
25	Regional Water Supply Resiliency Study	175,000
26	RRIFR Mirabel Dam Salmonid Monitoring	25,000
27	Transmission System Monitoring Master Plan	125,000
28	Watershed and Riverbank Filtration Water Quality Studies	50,000
		<b>\$ 5,876,645</b>



**51803 Other Contract Services Project Information****FY21-22****Aqueduct Condition Assessments****200,000**

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.

**Asset Management****300,000**

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.

**Cathodic Protection - SR/Cotati****3,120,045**

Provide improvements to upgrade/rehabilitate the cathodic protection system along the existing Santa Rosa Aqueduct and Russian River-Cotati Intertie. The project includes replacing the existing corrosion protection system with an impressed current corrosion protection system. These systems have a useful life of approximately 50 years and allow for remotely assessing the condition of the pipeline and adjusting the corrosion protection system as the pipeline properties change (soil and moisture characteristics surrounding the pipeline). The project will be constructed in two phases with a completed project that consists of 27 corrosion protection well sites and 51 test stations.

**Collector 3,5,6 Seismic Mitigation Planning****250,000**

Develop and evaluate strategies to mitigate seismically-induced liquefaction and lateral spread vulnerabilities for collector wells in the Wohler and Mirabel area. Conduct geo-structural modeling analysis and risk assessment to identify project concepts that can be further evaluated for future implementation feasibility.

**LHMP Program Planning****30,000**

The LHM program planning and design effort provides for the maintenance and update to the Local Hazard Mitigation Plan (required for FEMA funding) and the preliminary development of mitigation project concepts for the purposes of preparing grant applications and refining projected costs of projects associated with the Natural Hazard Reliability Mitigation Program.

**pH System Assessment and Update****200,000**

Upgrade the pumps and programmable logic controls in both Wohler and Mirabel caustic soda (pH) buildings, to make them more efficient and program-compatible with forthcoming electronic and supervisory control and data acquisition (SCADA) master plans. The pumps and programmable logic controls will replace existing equipment.

**SCADA Improvements****250,000**

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 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.

SCADA team will also coordinate with Asset Management Team to achieve alignment between asset management and SCADA systems.

**Hydrography Study****15,000**

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.

**51803 Other Contract Services Project Information****FY21-22****Regional Water Supply Resiliency Study****175,000**

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, such as a regional Water Evaluation and Planning System (WEAP) model, could be used to evaluate strategies and water supply projects that would make the region more resilient to future water shortages.

**Transmission System Monitoring Master Plan****125,000**

Develop a Water Transmission System Monitoring Master Plan to evaluate the existing water system operations monitoring equipment infrastructure, assess operational and regulatory requirements, and develop guidelines for design, operation and maintenance of all components in the monitoring network.

**Watershed and Riverbank Filtration Water Quality Studies****50,000**

Sonoma Water, in an effort to better understand the natural filtration process, has completed numerous Russian River aquifer research projects in the vicinity of its riverbank filtration facilities. This research has been conducted over approximately the past 15 years through various in-house studies as well as cooperative programs with other agencies including the US Geological Survey and Lawrence Berkeley National Laboratory. Sonoma Water wishes to develop a list of qualified firms to provide technical support as needed for these ongoing efforts.

DRAFT

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Management Planning

Fund/Department No:

44210

33041000

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>633,917</b>	<b>685,080</b>		<b>478,041</b>		
<b><u>REVENUES</u></b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	14,599	7,735	7,735	1,680	(6,055)	(78.28%)
44050 Unrealized Gains and Losses	(1,586)	(6,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>13,013</b>	<b>1,735</b>	<b>7,735</b>	<b>1,680</b>	<b>(6,055)</b>	<b>(78.28%)</b>
<b><u>INTERGOVERNMENTAL REVENUE</u></b>						
42619 Town of Windsor	3,731	2,226	2,226	12	(2,214)	(99.45%)
<b>SUBTOTAL</b>	<b>3,731</b>	<b>2,226</b>	<b>2,226</b>	<b>12</b>	<b>(2,214)</b>	<b>(99.45%)</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	53,499	40,000	40,000	230	(39,770)	(99.43%)
47102 Transfers In - btw Govtl Func	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>53,499</b>	<b>40,000</b>	<b>40,000</b>	<b>230</b>	<b>(39,770)</b>	<b>(99.43%)</b>
<b>TOTAL REVENUES</b>	<b>70,243</b>	<b>43,961</b>	<b>49,961</b>	<b>1,922</b>	<b>(48,039)</b>	<b>(96.15%)</b>
<b><u>EXPENDITURES</u></b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51205 Advertising Marketing	0	0	0	0	0	N/A
51211 Legal Services	0	1,000	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 Expenses	247	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	8,857	200,000	125,000	50,000	(75,000)	(60.00%)
51917 District Operations Chgs	20,236	50,000	50,000	30,000	(20,000)	(40.00%)
51921 Equipment Usage Charges	184	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>29,524</b>	<b>251,000</b>	<b>175,000</b>	<b>80,000</b>	<b>(95,000)</b>	<b>(54.29%)</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53501 Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Func	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>29,524</b>	<b>251,000</b>	<b>175,000</b>	<b>80,000</b>	<b>(95,000)</b>	<b>(54.29%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	8,857	0		0		
Audit Adjustment (A/P)	0	0		0		
Unrealized Gain/ Loss (GASB 31)	1,586	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>685,080</b>	<b>478,041</b>		<b>399,963</b>		

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Watershed Planning/Restoration

Fund/Department No:

44215

33041100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>9,055,666</b>	<b>10,980,934</b>		<b>4,112,850</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	251,251	66,300	66,300	14,400	(51,900)	(78.28%)
44050 Unrealized Gains and Losses	(20,843)	(75,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>230,408</b>	<b>(8,700)</b>	<b>66,300</b>	<b>14,400</b>	<b>(51,900)</b>	<b>(78.28%)</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42461 Federal Other Funding	20,459	75,000	75,000	75,000	0	0.00%
42619 Town of Windsor	336,954	285,341	285,341	322,618	37,277	13.06%
<b>SUBTOTAL</b>	<b>357,413</b>	<b>360,341</b>	<b>360,341</b>	<b>397,618</b>	<b>37,277</b>	<b>10.34%</b>
<b>CHARGES FOR SERVICES</b>						
<b>45301</b> Charges for Services	0	0	0	0	0	N/A
45332 Watershed Plan/Restore Chg	43,758	45,000	40,000	40,000	0	0.00%
<b>Subtotal Charges for Service</b>	<b>43,758</b>	<b>45,000</b>	<b>40,000</b>	<b>40,000</b>	<b>0</b>	<b>0.00%</b>
<b>MISCELLANEOUS REVENUE</b>						
46021 Capital Grants - Federal	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	400,000	400,000	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	500	0	0	0	0	N/A
46200 Revenue Appl PY Misc Reven	20,391	(20,391)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>20,891</b>	<b>(20,391)</b>	<b>0</b>	<b>400,000</b>	<b>400,000</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	4,831,047	5,128,067	5,128,067	6,114,794	986,727	19.24%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>4,831,047</b>	<b>5,128,067</b>	<b>5,128,067</b>	<b>6,114,794</b>	<b>986,727</b>	<b>19.24%</b>
<b>TOTAL REVENUES</b>	<b>5,483,517</b>	<b>5,504,317</b>	<b>5,594,708</b>	<b>6,966,812</b>	<b>1,372,104</b>	<b>24.53%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51021 Communication Expense	0	0	0	0	0	N/A
51061 Maintenance - Equipment	41,989	1,500	0	0	0	N/A
51205 Advertising Marketing	482	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	0	0	0	0	0	N/A
51211 Legal Services	8,929	2,500	0	0	0	N/A
51212 Legal Services - External	473	1,000	0	0	0	N/A
51221 Medical/Laboratory Services	0	0	0	0	0	N/A
51226 Consulting Services	0	22,762	0	0	0	N/A
51231 Testing/Analysis	44,845	52,900	0	0	0	N/A
51241 Outside Printing and Binding	69	0	0	0	0	N/A
51244 Permits/License/Fees	57,679	10,000	0	0	0	N/A
51401 Rents and Leases - Equipment	323	5,000	0	0	0	N/A
51601 Training/Conference	270	0	0	0	0	N/A
51602 Business Travel/Mileage	141	0	0	0	0	N/A
51605 Private Car Expense	897	2,000	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	1,442,927	5,775,055	4,436,000	3,904,405	(531,595)	(11.98%)

## Section Title:

Watershed Planning/Restoration

## Fund/Department No:

44215

33041100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
51902 Telecommunication Usage	472	300	0	0	0	N/A
51917 District Operations Chgs	1,878,571	2,864,484	2,146,067	2,359,250	213,183	9.93%
51921 Equipment Usage Charges	30,544	26,000	0	0	0	N/A
52021 Clothing, Uniforms, Personal	1,864	400	0	0	0	N/A
52031 Food	355	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	0	0	0	0	0	N/A
52063 Vehicle Parts	0	0	0	0	0	N/A
52071 Materials and Supplies Expens	3,444	0	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	183	0	0	0	0	N/A
52114 Freight/Postage	703	0	0	0	0	N/A
52115 Books/Media	351	500	0	0	0	N/A
52117 Mail and Postage Supplies	30	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	9,636	0	0	0	0	N/A
52142 Computer Equipment/Accesso	65	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
<b>SUBTOTAL</b>	<b>3,525,241</b>	<b>8,764,401</b>	<b>6,582,067</b>	<b>6,263,655</b>	<b>(318,412)</b>	<b>(4.84%)</b>
<b>OTHER CHARGES</b>						
53104 Other Interest Expense	0	0	0	0	0	N/A
53402 Depreciation Expense	12,050	16,000	16,000	8,000	(8,000)	(50.00%)
53501 Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>12,050</b>	<b>16,000</b>	<b>16,000</b>	<b>8,000</b>	<b>(8,000)</b>	<b>(1)</b>
<b>REIMBURSEMENTS</b>						
58010 Reimb. - General	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>FIXED ASSETS</b>						
19840 Acq-WIP-Equipment	0	0	0	0	0	N/A
19841 Acq-WIP-Intangibles	233,163	3,600,000	2,495,000	1,022,139	(1,472,861)	
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>233,163</b>	<b>3,600,000</b>	<b>2,495,000</b>	<b>1,022,139</b>	<b>(1,472,861)</b>	<b>(1)</b>
<b>OTHER FINANCING USES</b>						
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
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>3,770,454</b>	<b>12,380,401</b>	<b>9,093,067</b>	<b>7,293,794</b>	<b>(1,799,273)</b>	<b>(19.79%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	311,763	0				
Capital Interest	0	0				
Depreciation	12,050	8,000		8,000		
Change in prepaid expense	333	0				
Unrealized Gain/ Loss (GASB 31)	20,843	0				
Audit Adjustment (A/P)	(132,783)	0				
Rounding	(1)	0				
<b>ENDING FUND BALANCE</b>	<b>10,980,934</b>	<b>4,112,850</b>		<b>3,793,868</b>		

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Recycled Water and Local Supply

Fund/Department No:

44220

33041200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>407,407</b>	<b>212,245</b>		<b>167,101</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	14,206	16,575	16,575	480	(16,095)	(97.10%)
44050 Unrealized Gains and Losses	(3,831)	(7,700)	0	0	0	N/A
SUBTOTAL	10,375	8,875	16,575	480	(16,095)	(97.10%)
<b>INTERGOVERNMENTAL REVENUE</b>						
42358 State Other Funding	0	0	0	0	0	N/A
42619 Town of Windsor	9,687	2,281	2,281	2,269	(12)	(0.54%)
SUBTOTAL	9,687	2,281	2,281	2,269	(12)	(0.54%)
<b>CHARGES FOR SERVICES</b>						
45301 Charges for Services	0	0	0	0	0	N/A
45333 Recycled Water & Local Supply	0	0	0	0	0	N/A
45401 Revenue Appl PY Chgs for Svcs	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	0
<b>MISCELLANEOUS REVENUE</b>						
46022 Capital Grants-State	0	0	0	0	0	N/A
46029 Donations/Contributions	0	0	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	0	0	0	0	N/A
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	138,882	41,000	41,000	43,000	2,000	4.88%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	138,882	41,000	41,000	43,000	2,000	4.88%
<b>TOTAL REVENUES</b>	<b>158,944</b>	<b>52,156</b>	<b>59,856</b>	<b>45,749</b>	<b>(14,107)</b>	<b>(23.57%)</b>

**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	5,993	0	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	15,000	15,000	15,000	0	0.00%
51921 Equipment Usage Charges	0	0	0	0	0	N/A

## Section Title:

Recycled Water and Local Supply

## Fund/Department No:

44220

33041200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
52031 Food	0	0	0	0	0	N/A
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	5,993	15,000	15,000	15,000	0	0.00%
<b>OTHER CHARGES</b>						
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	373,785	80,000	80,000	80,000	0	0.00%
SUBTOTAL	379,751	86,000	86,000	86,000	0	0.00%
<b>FIXED ASSETS</b>						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	0	2,300	0	0	0	N/A
19841 Work in Progress - Intang	0	0	0	0	0	N/A
SUBTOTAL	0	2,300	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
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
<b>TOTAL EXPENDITURES</b>	<b>385,744</b>	<b>103,300</b>	<b>101,000</b>	<b>101,000</b>	<b>0</b>	<b>0.00%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change	65,033	0				
Change in Windsor Reserve	(43,192)	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)	3,831	0		0		
Rounding	0	0				
<b>ENDING FUND BALANCE</b>	<b>212,245</b>	<b>167,101</b>		<b>117,850</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Conservation

Fund/Department No:

44225

33041300

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
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**BEGINNING FUND BALANCE**

1,319,002

1,340,818

902,304

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	38,755	16,575	16,575	3,360	(13,215)	(79.73%)
44050 Unrealized Gains and Losses	(3,309)	(11,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>35,446</b>	<b>5,575</b>	<b>16,575</b>	<b>3,360</b>	<b>(13,215)</b>	<b>(79.73%)</b>

**INTERGOVERNMENTAL REVENUE**

42358 State Other Funding	116,305	389,943	283,148	592,575	309,427	109.28%
42461 Federal Other Funding	0	0	0	0	0	N/A
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	153,619	104,105	104,105	108,075	3,970	3.81%
42621 North Marin Water District	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>269,924</b>	<b>494,048</b>	<b>387,253</b>	<b>700,650</b>	<b>313,397</b>	<b>80.93%</b>

**Charges for Services**

45301 Charges for Services	55,325	15,000	15,000	37,000	22,000	146.67%
45316 Water Conservation	20,000	20,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>75,325</b>	<b>35,000</b>	<b>15,000</b>	<b>37,000</b>	<b>22,000</b>	<b>146.67%</b>

**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	90,000	90,000	380,000	290,000	322.22%
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	0	0	0	0	0	N/A
46050 Cancelled/State Dated Warrants	0	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	11,585	0	0	0	0	N/A
46204 PY Intergovmntl Rev - Other	0	1	0	0	0	N/A
46215 Other Grants	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>11,585</b>	<b>90,001</b>	<b>90,000</b>	<b>380,000</b>	<b>290,000</b>	<b>322.22%</b>

**OTHER FINANCING SOURCES**

47101 Transfers In - within a Fund	2,202,495	1,870,952	1,870,952	2,048,425	177,473	9.49%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,202,495</b>	<b>1,870,952</b>	<b>1,870,952</b>	<b>2,048,425</b>	<b>177,473</b>	<b>9.49%</b>

**TOTAL REVENUES**

2,594,776

2,495,576

2,379,780

3,169,435

789,655

33.18%

**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	700	3,000	0	0	0	N/A
51205 Advertising/Marketing Svc	25,190	50,000	0	0	0	N/A
51209 Information Tech Svc (non ISD)	531	150	0	0	0	N/A
51211 Legal Services	3,657	3,300	0	0	0	N/A



## Section Title:

## Water Conservation

## Fund/Department No:

44225

33041300

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
51214 Agency Extra/Temp Help	0	0	0	0	0	N/A
51225 Training Services	0	1,000	0	0	0	N/A
51230 Security Services	0	220	0	0	0	N/A
51241 Outside Printing and Binding	17,993	60,000	60,000	53,500	(6,500)	(10.83%)
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	92	200	0	0	0	N/A
51601 Training Services	3,214	6,200	0	0	0	N/A
51602 Business Travel/Mileage	675	0	13,000	13,000	0	0.00%
51605 Private Car Expense	659	1,000	0	0	0	N/A
51801 Other Services	0	0	0	0	0	N/A
51803 Other Contract Services	156,469	343,510	334,100	585,800	251,700	75.34%
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	1,672,192	1,560,000	1,560,000	1,900,000	340,000	21.79%
51921 Equipment Usage Charges	9,375	8,000	0	0	0	N/A
52021 Clothing, Uniforms	50	200	0	0	0	N/A
52031 Food	1,124	800	0	0	0	N/A
52042 Janitorial Supplies	0	0	0	0	0	N/A
52061 Fuel/Gas/Oil	0	0	0	0	0	N/A
52071 Materials and Supplies Expense	40,763	75,000	75,000	75,000	0	0.00%
52091 Memberships/Certifications	15,594	12,000	12,000	12,000	0	0.00%
52101 Other Supplies	0	0	0	0	0	N/A
52111 Office Supplies	1,262	1,200	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	674	0	0	0	0	N/A
52117 Mail and Postage Supplies	216	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	24,544	0	0	0	0	N/A
52142 Computer Equipment/Accessories	0	500	0	0	0	N/A
52162 Special Department Expense	0	0	0	0	0	N/A
52171 Water Conservation Program	135,145	701,364	470,000	379,000	(91,000)	(19.36%)
52181 Business Meals/Supplies	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,110,117</b>	<b>2,827,644</b>	<b>2,524,100</b>	<b>3,018,300</b>	<b>494,200</b>	<b>19.58%</b>
<b>OTHER CHARGES</b>						
53500 Contributions Non-County Agy	0	0	0	0	0	N/A
53501 Contributions	0	0	0	556,700	556,700	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>556,700</b>	<b>556,700</b>	<b>N/A</b>
<b>OTHER FINANCING USES</b>						
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
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>2,110,117</b>	<b>2,827,644</b>	<b>2,524,100</b>	<b>3,575,000</b>	<b>1,050,900</b>	<b>41.63%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Chan	(333,249)	0		0		
Change in Windsor Reserve	(133,015)	(106,446)		0		
Change in Prepaid Expense	110	0		0		
Unrealized Gain/ Loss (GASB 31)	3,309	0		0		
Rounding	2	0		0		
<b>ENDING FUND BALANCE</b>	<b>1,340,818</b>	<b>902,304</b>		<b>496,740</b>		

## Water Transmission Budget

2021-22

### Itemized Detail for Subfunds Consulting/Contractual Services

Budget  
FY21-22

#### Water Management Planning

Water Demand Analysis/ Financial Modeling: Develop scope, cost, energy requests, and schedule of transmission system projects required to meet Sonoma Water's portion of UWMP-identified projected demands through the Urban Water Management planning horizon. Projects will be identified using Sonoma Water's transmission system hydraulic model. Next UWMP due July 1, 2021.	\$ 25,000
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#### Watershed Planning/Restoration

RRIFR Decision 1610 Change Petition: Russian River Flows: Assist in preparation of draft Environmental Impact Report for Fish Habitat Flows and Water Rights Project 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, hydroelectric analysis, water quality monitoring, climate change modeling (USGS), EIR, and hydrologic index evaluation needed. Work is occurring internally on the Environmental Impact Report for the Fish Habitat Flows and Water Rights Project. 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 FY19/20, work was focused on preparation of Draft EIR for recirculation, including modeling updates. In FY20/21, most of the work will focus on preparing the recirculated Draft EIR,. Work also includes submission of annual Temporary Urgency Change (TUC) Petition 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 the State Board TUC Order. Compared to FY20-21, the Decision 1610 Change Petition budget has increased \$156,000. The increase is attributable to the anticipated level of effort to prepare the recirculated Draft EIR and a Final EIR. Work anticipated for FY21-22 includes work on the recirculated draft EIR, reviewing public comments, preparation of the Final EIR, and presentation to the Board of Directors to certify, as well as monitoring and reporting related to the annual TUC.	\$ 288,000
RRIFR Estuary Management: Required Annual Biological Opinion Activities: Sonoma Water, in consultation with 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 extensive surveys of estuary invertebrates; conduct juvenile steelhead and coho salmon rearing surveys, and prepare annual reports. Other FY19/20 and FY20/21 activities include installation and monitoring of downstream migrant salmonid traps and water quality monitoring stations, and flood risk feasibility studies. Compared to FY20-21, the Estuary Management budget has increased approximately \$90,000. The increase is attributable to level of staff effort anticipated for monitoring and for purchase and replacement of equipment related to fisheries monitoring, Work anticipated for FY21-22 includes preparation of the annual adaptive management plan and continuation of required monitoring and studies.	\$ 330,000
Upper Russian River Water Quality Monitoring: This water quality monitoring was conducted in FY19-20 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, and the Forecast Informed Reservoir Operations (FIRO) projects. Monitoring included the deployment of datasondes and collection of grab samples, as well as laboratory analysis. The budget has decreased \$46,000 due to changes in field data collection and analysis. Work anticipated for FY21-22 includes the efforts described above.	\$ 23,000
Winter Russian River Algae /WQ Monitoring: 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. Compared to FY20-21, the budget for FY21-22 remains the same for this activity. Work	\$ 14,000

2/16/2021

## Water Transmission Budget

2021-22

### Itemized Detail for Subfunds Consulting/Contractual Services

	Budget FY21-22
<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 and with offsetting matching revenue from PGE Settlement Funds.	\$ 400,000
	\$ 655,000
<b><u>Recycled Water and Local Supply</u></b>	
Funding for Groundwater Management in FY 20/21 for Groundwater Sustainability activities.	\$ 80,000
	\$ 80,000
<b><u>Water Conservation</u></b>	
<b><u>51241-Outside Printing and Binding</u></b>	
WUE Program materials, water education calendar, and Green Business Program brochures, Garden Sense materials, Russian River Friendly Workshop	\$ 53,500
<b><u>51602-Business Travel/Mileage</u></b>	
Attend local and statewide meetings representing the Partnership and Sonoma Water	\$ 13,000
<b><u>51803-Other Contract Services</u></b>	
Community Resilience Challenge: Event provides training and local workshops to promote water use efficiency	\$ -
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	\$ 15,000
QWEL: Local instructors to teach QWEL trainings and Database maintenance contract	\$ 33,000
Sonoma County Fair: Materials and hardware that are WUE focused for distribution at the Sonoma County fair	\$ 15,000
Sonoma Marin Saving Water Partnership Website: Website hosting and maintenance	\$ 24,000
Water Education Bus Contract to shuttle kids from school to field study sites	\$ 41,800
Water Loss Programs: Technical assistance for regional water loss meetings and supply meter assessment and testing plan, Prop 1 grant for leakage component analysis.	\$ 50,000
	\$ 253,800

2/16/2021

## Water Transmission Budget

2021-22

### Itemized Detail for Subfunds Consulting/Contractual Services

	Budget FY21-22
<b><u>51917-District Operations Chgs</u></b>	
Salaries, benefits and overhead costs for staff assigned to projects budgeted within the Water Conservation Fund.	\$ 1,900,000
<b><u>52071-Materials and Supplies Expense</u></b>	
Water Ed Teaching Materials: pH strips, fabric for displays, youth outreach displays, pencil sharpeners, pencils, classroom testing kits, maps, workbooks, rulers, toothbrushes, stickers, etc.	\$ 75,000
<b><u>52091-Memberships/Certifications</u></b>	
Irrigation Association Certificate Renewals, Water Education Foundation, and California Water Efficiency Partnership, Alliance for Water Efficiency, etc.	\$ 12,000
<b><u>52171-Water Conservation Program</u></b>	
Outdoor Water Use Focused Programs: Qualified Water Efficient Landscaper Training in English and Spanish, Garden Sense funding provides onsite visits by local master gardeners to support local turf removal programs, Community Resilience Challenge event provides training and local workshops to promote water use efficiency; Plant labeling Program, Russian River Friendly Workshops, etc.	\$ 15,000
Public Information/Outreach Programs: Media campaign for the Sonoma-Marín Saving Water Partnership including media ad buy, ad development, DIY toolkits.	\$ 163,000
Rainwater Harvesting Rebates: Prop 1 grant for rebate program for installation of rainwater harvesting cisterns.	\$ 31,000
Saving Water Partnership Wholesaler Support: Act as the regional liaison attend meetings of the CalWEP Board, Alliance for Water Efficiency, Independent Technical Panel, Urban Advisory Group, CA Science Teachers Association, environmental education conference, Fire Rebuild.	\$ 35,000
School Education Program: Such as assembly program, port-a-potties, steelhead in the classroom program, youth outreach events, teacher program, English as a second language program, educational workbooks, maps.	\$ 70,000
Seminars, Workshops, Training: Host trainings/ workshops to benefit the Partnership, such as Water Loss, WELO; Participation in national/ statewide studies such as Turf Transformation Study.	\$ 50,000
Smart Controller Program: The smart controller program is a new incentive program through the Sonoma-Marín Saving Water Partnership. The program will offer smart controllers to customers of participating agencies at a reduced price. Funding for the program will come directly from members of the Partnership (contractors) that offer the program to their customers. Sonoma Water is coordinating the program and will receive invoices from the vendor. In turn, Sonoma Water will invoice the agencies using the program. As such, the majority of the costs incurred through the program will be offset by revenue received from participating contractors.	\$ 15,000
	\$ 379,000
Total	\$ 2,686,300

2/16/2021

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:  
Fund/Department No:

<b>Santa Rosa Aqueduct Capital Fund</b>	
<b>44230</b>	<b>33045000</b>

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
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<b>BEGINNING FUND BALANCE</b>	<b>7,304,567</b>	<b>7,881,399</b>		<b>954,278</b>		
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**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	151,836	55,250	55,250	26,400	(28,850)	(52.22%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Los	(17,328)	(45,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>134,508</b>	<b>10,250</b>	<b>55,250</b>	<b>26,400</b>	<b>(28,850)</b>	<b>(52.22%)</b>

**MISCELLANEOUS REVENUES**

46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46021 Capital Grants - Federal	104,503	2,400,000	2,400,000	0	(2,400,000)	(100.00%)
46029 Donations/Contributions	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated V	0	128	0	0	0	N/A
<b>SUBTOTAL</b>	<b>104,503</b>	<b>2,400,128</b>	<b>2,400,000</b>	<b>0</b>	<b>(2,400,000)</b>	<b>(100.00%)</b>

**ADMINISTRATIVE CONTROL ACCOUNT**

49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**OTHER FINANCING SOURCES**

47101 Transfers In - within a F	607,374	546,474	546,474	449,129	(97,345)	(17.81%)
47102 Transfers In - btw Govtl	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>607,374</b>	<b>546,474</b>	<b>546,474</b>	<b>449,129</b>	<b>(97,345)</b>	<b>(17.81%)</b>

**SPECIAL ITEMS**

48004 Residual Equity Transfe	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

<b>TOTAL REVENUES</b>	<b>846,385</b>	<b>2,956,852</b>	<b>3,001,724</b>	<b>475,529</b>	<b>(2,526,195)</b>	<b>(84.16%)</b>
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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		
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**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	448,759	9,883,972	9,544,565	800,000	(8,744,565)	(91.62%)
19840 Work in Progress - Eqt	0	0	0	0		
19841 Work in Progress - Intar	0	0	0	0		

Section Title:  
Fund/Department No:

**Santa Rosa Aqueduct Capital Fund**

**44230**

**33045000**

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
19851 Intangible Assets - Non-	0	0	0	0		
SUBTOTAL	448,759	9,883,972	9,544,565	800,000	(8,744,565)	(91.62%)
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>448,759</b>	<b>9,883,972</b>	<b>9,544,565</b>	<b>800,000</b>	<b>(8,744,565)</b>	<b>(91.62%)</b>

**Adjustments to Reserves/Encumbrances:**

Repayment of Loan to Storage	0	0	0
Unrealized Gain/ Loss (GASB 31)	161,880	0	0
Capitalized Interest	17,328	0	0
Rounding	(2)	0	0

<b>ENDING FUND BALANCE</b>	<b>7,881,399</b>	<b>954,278</b>	<b>629,808</b>
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**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

**Petaluma Aqueduct Capital Fund**

Fund/Department No:

**44235**

**33045100**

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>8,404,890</b>	<b>8,064,692</b>		<b>6,906,770</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	170,132	55,250	55,250	33,120	(22,130)	(40.05%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(20,863)	(50,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>149,269</b>	<b>5,250</b>	<b>55,250</b>	<b>33,120</b>	<b>(22,130)</b>	<b>(40.05%)</b>
<b>MISCELLANEOUS REVENUE</b>						
46021 Capital Gains - Federal	54,336	220,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>54,336</b>	<b>220,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>ADMINISTRATIVE CONTROL ACCOUNT</b>						
49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	354,023	332,486	332,486	253,676	(78,810)	(23.70%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>354,023</b>	<b>332,486</b>	<b>332,486</b>	<b>253,676</b>	<b>(78,810)</b>	<b>(23.70%)</b>
<b>TOTAL REVENUES</b>	<b>557,628</b>	<b>557,736</b>	<b>387,736</b>	<b>286,796</b>	<b>(100,940)</b>	<b>(26.03%)</b>
<b>EXPENDITURES</b>						
<b>OTHER CHARGES</b>						
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		
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>FIXED ASSETS</b>						
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	540,399	1,708,658	64,845	202,411	137,566	212.15%
19840 Work in Progress - Eqt	0	0	0	0	0	N/A
19841 Work in Progress - Intang	0	7,000	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0		
<b>SUBTOTAL</b>	<b>540,399</b>	<b>1,715,658</b>	<b>64,845</b>	<b>202,411</b>	<b>137,566</b>	<b>212.15%</b>

Section Title:  
Fund/Department No:

**Petaluma Aqueduct Capital Fund**

**44235**

**33045100**

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b><u>SPECIAL ITEMS</u></b>						
56030 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>540,399</b>	<b>1,715,658</b>	<b>64,845</b>	<b>202,411</b>	<b>137,566</b>	<b>212.15%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
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	(312,407)	0		0		
Donated Asset	(65,883)	0		0		
Unrealized Gain/ Loss (GASB 31)	20,863	0		0		
Rounding	(1)					
<b>ENDING FUND BALANCE</b>	<b>8,064,692</b>	<b>6,906,770</b>		<b>6,991,155</b>		



**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Capital Fund

Fund/Department No:

44240

33045200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>1,535,363</b>	<b>605,188</b>		<b>165,060</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	32,238	24,000	2,210	480	(1,730)	(78.28%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(779)	(10,000)	0	0	0	N/A
SUBTOTAL	31,459	14,000	2,210	480	(1,730)	(78.28%)
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	3,260,937	622,845	622,845	351,642	(271,203)	(43.54%)
47102 Transfers In - btw Govtl Func	0	0	0	0	0	N/A
SUBTOTAL	3,260,937	622,845	622,845	351,642	(271,203)	(43.54%)
<b>SPECIAL ITEMS</b>						
48004 Residual Equity Transfers	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL REVENUES</b>	<b>3,292,396</b>	<b>636,845</b>	<b>625,055</b>	<b>352,122</b>	<b>(272,933)</b>	<b>(43.67%)</b>
<b>EXPENDITURES</b>						
<b>OTHER CHARGES</b>						
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
<b>FIXED ASSETS</b>						
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	639,590	1,016,973	627,000	50,000	(577,000)	(92.03%)
19840 Work in Progress - Eqt	0	0	0	0		
19841 Work in Progress - Intang	0	0	0	0		
19851 Intangible Assets - Non-amor	0	0	0	0		
SUBTOTAL	639,590	1,016,973	627,000	50,000	(577,000)	(92.03%)
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Func	0	60,000	0	0	0	N/A
SUBTOTAL	0	60,000	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>639,590</b>	<b>1,076,973</b>	<b>627,000</b>	<b>50,000</b>	<b>(577,000)</b>	<b>(92.03%)</b>

Section Title:

Sonoma Aqueduct Capital Fund

Fund/Department No:

44240

33045200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>Adjustments to Reserves/Encumbrances:</b>						
Outstanding Encumbrances - Net Change (3,583,760)		0		0		
Sale or Purchase of Fixed Asset	0	0		0		
Unrealized Gain/ Loss (GASB 31)	779	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>605,188</b>	<b>165,060</b>		<b>467,182</b>		

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**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities

Fund/Department No:

44250

33043000

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>406,047</b>	<b>815,319</b>		<b>14,078</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	9,135	5,000	0	0	0	N/A
44050 Unrealized Gains & Losses	3,482	(2,500)	0	0	0	N/A
SUBTOTAL	12,618	2,500	0	0	0	N/A
<b><u>MISCELLANEOUS REVENUE</u></b>						
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
<b><u>Administrative Control</u></b>						
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
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	475,000	150,000	150,000	120,000	(30,000)	(20.00%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	475,000	150,000	150,000	120,000	(30,000)	(20.00%)
<b>TOTAL REVENUES</b>	<b>487,618</b>	<b>152,500</b>	<b>150,000</b>	<b>120,000</b>	<b>(30,000)</b>	<b>(20.00%)</b>
<b>EXPENDITURES</b>						
<b><u>OTHER CHARGES</u></b>						
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	2,784,343	0	0	0	0	
SUBTOTAL	2,784,343	0	0	0	0	N/A
<b><u>FIXED ASSETS</u></b>						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	44,174	836,414	100,000	25,000	(75,000)	(75.00%)
19841 Acq-WIP-Intangibles	53,994	117,327	50,000	0	(50,000)	(100.00%)
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	98,168	953,741	150,000	25,000	(125,000)	(83.33%)

## Section Title:

Storage Facilities

Fund/Department No:

44250

33043000

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b><u>ADMINISTRATIVE CONTROL ACCOUNT</u></b>						
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
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>2,882,511</b>	<b>953,741</b>	<b>150,000</b>	<b>25,000</b>	<b>(125,000)</b>	<b>(83.33%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
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	23,305	0		0		
PY CIP adjustment - reclass to PY Exp	0	0		0		
B & I Tsfrs	0	0		0		
LTD Proceeds	0	0		0		
Capitalized Interest	0	0		0		
Move Project CIP Balance	0	0		0		
Gain/loss on disposal of Capital Assets	2,784,343	0		0		
Unrealized Gain/ Loss (GASB 31)	(3,482)	0		0		
PY Encumbrances	0	0		0		
Rounding	(1)	0		0		
<b>ENDING FUND BALANCE</b>	<b>815,319</b>	<b>14,078</b>		<b>109,078</b>		

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities

Fund/Department No:

44260

33043200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>1,519,355</b>	<b>9,688,314</b>		<b>6,976,337</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	31,148	60,000	22,100	4,800	(17,300)	(78.28%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(8,724)	(10,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>22,424</b>	<b>50,000</b>	<b>22,100</b>	<b>4,800</b>	<b>(17,300)</b>	<b>(78.28%)</b>
<b>CHARGES FOR SERVICES</b>						
45062 Construct/Bldg Permit Rvw Svc	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>MIECELLANEOUS REVENUES</b>						
46021 Capital Grants - Federal	229,262	5,531,575	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 Revenue Appl PY Misc Revenu	1,475	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>230,737</b>	<b>5,531,575</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>ADMINISTRATIVE CONTROL</b>						
49002 Advances	0	0	0	0	0	N/A
49003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	9,733,600	7,436,216	361,401	1,946,689	1,585,288	438.65%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>9,733,600</b>	<b>7,436,216</b>	<b>361,401</b>	<b>1,946,689</b>	<b>1,585,288</b>	<b>438.65%</b>
<b>TOTAL REVENUES</b>	<b>9,986,761</b>	<b>13,017,791</b>	<b>383,501</b>	<b>1,951,489</b>	<b>1,567,988</b>	<b>408.86%</b>

**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	1,257	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,257</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**FIXED ASSETS**

19810 Land	0	0	0	0	0	N/A
19812 Acq-CIP-Land	0	0	0	0	0	N/A
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	1,816,130	14,229,768	1,961,401	7,686,689	5,725,288	291.90%
19840 Acq-WIP-Equipment	0	0	0	500,000	500,000	N/A

## Section Title:

Common Facilities

Fund/Department No:

44260

33043200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
19841 Work in Progress - Intang	0	875,000	250,000	250,000	0	0.00%
19851 Intangible Assets - Non-amort	0	625,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,816,130</b>	<b>15,729,768</b>	<b>2,211,401</b>	<b>8,436,689</b>	<b>6,225,288</b>	<b>281.51%</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>ADMINISTRATIVE CONTROL ACCOUNT</b>						
59002 Advances	0	0	0	0	0	N/A
59003 Advances Clearing	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>1,817,387</b>	<b>15,729,768</b>	<b>2,211,401</b>	<b>8,436,689</b>	<b>6,225,288</b>	<b>281.51%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Loan from Petaluma Aqueduct Capital Fund	0	0		0		
Principal payment on Loan from Petaluma /	0	0		0		
Advances	0	0		0		
Outstanding Encumbrances - Net Change	(10,396)	0		0		
Capitalized Interest	0	0		0		
Gain/loss on disposal of Capital Assets	1,257	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 - Payables	0	0		0		
Unrealized Gain/ Loss (GASB 31)	8,724	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>9,688,314</b>	<b>6,976,337</b>		<b>491,137</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: North Marin Water Deposit

Fund/Department No: 44300 33045300

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>13,946</b>	<b>69,623</b>		<b>74,423</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	366	5,000	371	81	(290)	(78.26%)
44050 Unrealized Gains and Losses	(44)	(200)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>321</b>	<b>4,800</b>	<b>371</b>	<b>81</b>	<b>(290)</b>	<b>(78.26%)</b>

**Intergovernmental Revenue**

42610 Other Governmental Agencies	1,106,216	1,106,216	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,106,216</b>	<b>1,106,216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**OTHER FINANCING SOURCES**

47101 Transfers In - within a Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

<b>TOTAL REVENUES</b>	<b>1,106,537</b>	<b>1,111,016</b>	<b>371</b>	<b>81</b>	<b>(290)</b>	<b>(78.26%)</b>
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**EXPENDITURES**

**OTHER CHARGES**

53501 Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**OTHER FINANCING USES**

57011 Transfers Out - within a Fund	0	1,106,216	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>1,106,216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,106,216</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
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**Adjustments to Reserves/Encumbrances:**

Unrealized Gain/ Loss (GASB 31)	44	0
Post Audit Adjustment	(1,050,905)	0
Rounding	1	0

<b>ENDING FUND BALANCE</b>	<b>69,623</b>	<b>74,423</b>	<b>74,504</b>
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**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Debt Service Fund

Fund/Department No:

44265

33047000

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$286,519</b>	<b>\$452,500</b>		<b>\$441,678</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	21,343	15,470	15,470	1,920	(13,550)	(87.59%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(1,818)	(10,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>19,525</b>	<b>5,470</b>	<b>15,470</b>	<b>1,920</b>	<b>(13,550)</b>	<b>(87.59%)</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	1,196,268	1,196,267	1,196,267	1,196,267	0	0.00%
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,196,268</b>	<b>1,196,267</b>	<b>1,196,267</b>	<b>1,196,267</b>	<b>0</b>	<b>0.00%</b>
<b>TOTAL REVENUES</b>	<b>1,215,793</b>	<b>1,201,737</b>	<b>1,211,737</b>	<b>1,198,187</b>	<b>(13,550)</b>	<b>(1.12%)</b>
<b>EXPENDITURES</b>						
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	224,175	201,220	201,220	177,619	(23,601)	(11.73%)
<b>SUBTOTAL</b>	<b>224,175</b>	<b>201,220</b>	<b>201,220</b>	<b>177,619</b>	<b>(23,601)</b>	<b>(11.73%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	150,000	150,000	120,000	(30,000)	(20.00%)
<b>SUBTOTAL</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>120,000</b>	<b>(30,000)</b>	<b>(20.00%)</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59002 Advances	816,057	839,012	839,012	862,613	23,601	2.81%
59003 Advances Clearing	(816,057)	(839,012)	(839,012)	(862,613)	(23,601)	2.81%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>224,175</b>	<b>351,220</b>	<b>351,220</b>	<b>297,619</b>	<b>(53,601)</b>	<b>(15.26%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on loan	(827,455)	0				
(Increase) / Decrease in Principal Payable	0	(839,012)		(839,012)		
Advances from Other Govt	1,818	(22,328)		(22,328)		
Unrealized Gain/ Loss (GASB 31)	0	0		0		
Rounding	0	1		0		
<b>ENDING FUND BALANCE</b>	<b>\$452,500</b>	<b>\$441,678</b>		<b>\$480,906</b>		



**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Reserve Fund

Fund/Department No:

44270

33047100

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>(\$0)</b>		<b>(\$0)</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
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	(3,396)	0	0	0	0	N/A
SUBTOTAL	(3,396)	0	0	0	0	N/A
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL REVENUES</b>	<b>(3,396)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>EXPENDITURES</b>						
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Increase in Reserve	0	0		0		
Unrealized Gain/ Loss (GASB 31)	3,396	0				
Rounding	0	0				
<b>ENDING FUND BALANCE</b>	<b>(\$0)</b>	<b>(\$0)</b>		<b>(\$0)</b>		

**FY 2021-22 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bond - 2012A

Fund/Department No:

44280

33047300

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$172,351</b>	<b>\$158,191</b>		<b>\$31,586</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	4,053	332	332	96	(236)	(71.08%)
44003 Other Interest Earnings	3,975	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(151)	(1,500)	0	0	0	N/A
SUBTOTAL	7,876	(1,168)	332	96	(236)	(71.08%)
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	310,043	310,610	310,610	309,610	(1,000)	(0.32%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	310,043	310,610	310,610	309,610	(1,000)	(0.32%)
<b>TOTAL REVENUES</b>	<b>317,919</b>	<b>309,442</b>	<b>310,942</b>	<b>309,706</b>	<b>(1,236)</b>	<b>(0.40%)</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	863	1,000	1,000	1,000	0	0.00%
SUBTOTAL	863	1,000	1,000	1,000	0	0.00%
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	93,462	86,698	86,698	79,623	(7,075)	(8.16%)
53104 Other Interest Expense	(4,781)	86,698	5,526	5,526	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	88,682	173,396	92,224	85,149	(7,075)	(7.67%)
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	65,000	80,000	80,000	50,000	(30,000)	(37.50%)
SUBTOTAL	65,000	80,000	80,000	50,000	(30,000)	(37.50%)
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	169,114	176,871	176,871	183,077	6,206	3.51%
59005 Admin Control Acct Clearing	(169,114)	(176,871)	(176,871)	(183,077)	(6,206)	3.51%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>154,544</b>	<b>254,396</b>	<b>173,224</b>	<b>136,149</b>	<b>(37,075)</b>	<b>(21.40%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(169,114)	(176,871)		(183,077)		
Restricted cash with trustee (reserve)	0					
Debt Issuance Costs						
(Increase) / Decrease in Bonds Payable	0					
Amortization of bond discount	(10,307)	(10,307)		(10,307)		
Amortization of deferred amount of refunding	5,526	5,526		5,526		
Changed in Reserved Fund Balance	(3,792)					
Unrealized Gain/ Loss (GASB 31)	151					
Rounding	1					
<b>ENDING FUND BALANCE</b>	<b>\$158,191</b>	<b>\$31,586</b>		<b>\$17,285</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds - 2012 A

Fund/Department No:

44275

33047200

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$252,874</b>	<b>\$324,325</b>		<b>\$314,233</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	5,907	2,000	884	1,440	556	62.90%
44003 Other Interest Earnings	5,566	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(240)	(2,200)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>11,233</b>	<b>(200)</b>	<b>884</b>	<b>1,440</b>	<b>556</b>	<b>62.90%</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	434,081	435,105	435,105	433,705	(1,400)	(0.32%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>434,081</b>	<b>435,105</b>	<b>435,105</b>	<b>433,705</b>	<b>(1,400)</b>	<b>(0.32%)</b>
<b>TOTAL REVENUES</b>	<b>445,314</b>	<b>434,905</b>	<b>435,989</b>	<b>435,145</b>	<b>(844)</b>	<b>(0.19%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,120	1,500	1,500	1,500	0	0.00%
<b>SUBTOTAL</b>	<b>1,120</b>	<b>1,500</b>	<b>1,500</b>	<b>1,500</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	130,871	121,400	121,400	111,493	(9,907)	(8.16%)
53104 Other Interest Expense	(6,645)	7,787	7,787	7,787	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>124,226</b>	<b>129,187</b>	<b>129,187</b>	<b>119,280</b>	<b>(9,907)</b>	<b>(7.67%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	0	60,000	60,000	0	(60,000)	(100.00%)
<b>SUBTOTAL</b>	<b>0</b>	<b>60,000</b>	<b>60,000</b>	<b>0</b>	<b>(60,000)</b>	<b>(100.00%)</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	236,803	247,665	247,665	256,355	8,690	3.51%
59005 Admin Control Acct Clearing	(236,803)	(247,665)	(247,665)	(256,355)	(8,690)	3.51%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>125,346</b>	<b>190,687</b>	<b>190,687</b>	<b>120,780</b>	<b>(69,907)</b>	<b>(36.66%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(236,803)	(247,665)		(256,355)		
(Increase) / Decrease in Bonds Payable	0	0		0		
Restricted cash with trustee (reserve)	(5,308)	0		0		
Amortization of bond discount	0	0		0		
Amortization of bond premium	(14,432)	(14,432)		(14,432)		
Amortization of deferred amount of refunding	7,787	7,787		7,787		
Unrealized Gain/ Loss (GASB 31)	240	0		0		
Rounding	(2)			0		
<b>ENDING FUND BALANCE</b>	<b>\$324,325</b>	<b>\$314,233</b>		<b>\$365,598</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2012

Fund/Department No:

44285

33047400

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$246,939</b>	<b>\$191,180</b>		<b>\$228,342</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	5,451	1,326	1,326	960	(366)	(27.60%)
44003 Other Interest Earnings	3,269	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(380)	(2,100)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>8,340</b>	<b>(774)</b>	<b>1,326</b>	<b>960</b>	<b>(366)</b>	<b>(27.60%)</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	255,341	255,705	255,705	254,884	(821)	(0.32%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>255,341</b>	<b>255,705</b>	<b>255,705</b>	<b>254,884</b>	<b>(821)</b>	<b>(0.32%)</b>
<b>TOTAL REVENUES</b>	<b>263,681</b>	<b>254,931</b>	<b>257,031</b>	<b>255,844</b>	<b>(1,187)</b>	<b>(0.46%)</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	752	1,000	1,000	1,000	0	0.00%
<b>SUBTOTAL</b>	<b>752</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>0</b>	<b>0.00%</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	76,866	71,303	71,303	65,485	(5,818)	(8.16%)
53104 Other Interest Expense	(3,892)	4,585	4,585	4,585	0	0.00%
53105 Costs of Issuance	0	0	0	0	0	N/A
53109 Capitalized Interest	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>72,974</b>	<b>75,888</b>	<b>75,888</b>	<b>70,070</b>	<b>(5,818)</b>	<b>(7.67%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	100,000	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	139,084	145,464	145,464	150,568	5,104	3.51%
59005 Admin Control Acct Clearing	(139,084)	(145,464)	(145,464)	(150,568)	(5,104)	3.51%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>173,726</b>	<b>76,888</b>	<b>76,888</b>	<b>71,070</b>	<b>(5,818)</b>	<b>(7.57%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
(Increase)/Decrease in Bonds Payable						
Principal Payments on Bonds	(139,084)	(145,464)		(150,568)		
Amortization of bond discount	(8,477)	0		0		
Change in Reserved Fund Balance	(3,118)	0		0		
Capitalized Interest	0	0		0		
Amortization of deferred amount of refund	4,584	4,584		4,584		
Unrealized Gain/ Loss (GASB 31)	380	0		0		
Rounding	1	(1)		0		
<b>ENDING FUND BALANCE</b>	<b>\$191,180</b>	<b>\$228,342</b>		<b>\$267,132</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bonds 2015

Fund/Department No:

44290

33047500

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$452,144</b>	<b>\$328,549</b>		<b>\$109,035</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	10,782	2,000	663	432	(231)	(34.84%)
44003 Other Interest Earnings	9,737	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(2,640)	(7,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>17,879</b>	<b>(5,000)</b>	<b>663</b>	<b>432</b>	<b>(231)</b>	<b>(34.84%)</b>
<b>Miscellaneous Revenues</b>						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	713,766	486,527	486,527	476,381	(10,146)	(2.09%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>713,766</b>	<b>486,527</b>	<b>486,527</b>	<b>476,381</b>	<b>(10,146)</b>	<b>(2.09%)</b>
<b>TOTAL REVENUES</b>	<b>731,645</b>	<b>481,527</b>	<b>487,190</b>	<b>476,813</b>	<b>(10,377)</b>	<b>(2.13%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,153	1,500	1,500	1,500	0	0.00%
<b>SUBTOTAL</b>	<b>1,153</b>	<b>1,500</b>	<b>1,500</b>	<b>1,500</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	194,548	187,568	187,568	169,141	(18,427)	(9.82%)
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
<b>SUBTOTAL</b>	<b>183,079</b>	<b>192,626</b>	<b>192,626</b>	<b>174,199</b>	<b>(18,427)</b>	<b>(9.57%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	410,000	70,000	70,000	70,000	0	0.00%
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>410,000</b>	<b>70,000</b>	<b>70,000</b>	<b>70,000</b>	<b>0</b>	<b>0.00%</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	579,351	228,941	228,941	238,545	9,604	4.19%
59005 Admin Control Acct Clearing	(579,351)	(228,941)	(228,941)	(238,545)	(9,604)	4.19%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>594,233</b>	<b>264,126</b>	<b>264,126</b>	<b>245,699</b>	<b>(18,427)</b>	<b>(6.98%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Change in Principal due to Bond Reallocation	0					
Change in Bond Premium due to Bond Reallo	0					
Capitalized Interest	0					
Loss on Refunding of Debt	5,058	5,058		5,058		
Principal Payment	(425,448)	(425,448)		(238,545)		
Special Fund Stmt's!B449	0	0		0		
Amortization of Bond Premium	(16,525)	(16,525)		(16,525)		
Change in Reserved Fund Balance	173,269					
Unrealized Gain/ Loss (GASB 31)	2,640					
Rounding	(1)	(0)				
<b>ENDING FUND BALANCE</b>	<b>\$328,549</b>	<b>\$109,035</b>		<b>\$90,136</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds 2015

Fund/Department No:

44295

33047600

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$117,878</b>	<b>\$295,059</b>		<b>\$537,299</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	3,740	4,420	4,420	2,400	(2,020)	(45.70%)
44003 Other Interest Earnings	7,060	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(11,468)	(3,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(668)</b>	<b>1,420</b>	<b>4,420</b>	<b>2,400</b>	<b>(2,020)</b>	<b>(45.70%)</b>
<b><u>MISCELLANEOUS REVENUES</u></b>						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	1,030,030	1,237,202	1,237,202	1,224,505	(12,697)	(1.03%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,030,030</b>	<b>1,237,202</b>	<b>1,237,202</b>	<b>1,224,505</b>	<b>(12,697)</b>	<b>(1.03%)</b>
<b>TOTAL REVENUES</b>	<b>1,029,362</b>	<b>1,238,622</b>	<b>1,241,622</b>	<b>1,226,905</b>	<b>(14,717)</b>	<b>(1.19%)</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	2,064	2,500	2,500	2,500	0	0.00%
<b>SUBTOTAL</b>	<b>2,064</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>	<b>0</b>	<b>0.00%</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	527,067	518,877	518,877	483,190	(35,687)	(6.88%)
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
<b>SUBTOTAL</b>	<b>502,059</b>	<b>523,393</b>	<b>523,393</b>	<b>487,706</b>	<b>(35,687)</b>	<b>(6.82%)</b>
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	120,000	120,000	180,000	60,000	50.00%
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>120,000</b>	<b>120,000</b>	<b>180,000</b>	<b>60,000</b>	<b>50.00%</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	327,614	549,935	549,935	574,581	24,646	4.48%
59005 Admin Control Acct Clearing	(327,614)	(549,935)	(549,935)	(574,581)	(24,646)	4.48%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>504,123</b>	<b>645,893</b>	<b>645,893</b>	<b>670,206</b>	<b>24,313</b>	<b>3.76%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal Payment	(327,614)	(327,614)		(574,581)		
Change in Principal due to Bond Reallocation	0	0		0		
Change in Bond Premium due to Bond Reallocation	0	0		0		
Revenue Bonds Pay - Change in Current	0	0		0		
Amortization of Bond Premium	(29,523)	(27,390)		(27,390)		
Capitalized Interest	0					
Change in Reserved Fund Balance	(6,903)					
Loss on Refunding Debt	4,515	4,515		4,515		
Unrealized Gain/ Loss (GASB 31)	11,468	0		0		
Rounding	(1)	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$295,059</b>	<b>\$537,299</b>		<b>\$496,542</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2015

Fund/Department No:

44305

33047700

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$65,448</b>	<b>\$90,469</b>		<b>\$87,997</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	1,513	500	0	384	384	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(2,977)	(1,000)	0	0	0	N/A
SUBTOTAL	(1,464)	(500)	0	384	384	N/A
<b><u>MISCELLANEOUS REVENUES</u></b>						
46200 PY Revenue - Miscellaneous	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b><u>OTHER FINANCING SOURCES</u></b>						
47101 Transfers In - within a Fund	47,394	38,073	38,073	37,809	(264)	(0.69%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	47,394	38,073	38,073	37,809	(264)	(0.69%)
<b>TOTAL REVENUES</b>	<b>45,930</b>	<b>37,573</b>	<b>38,073</b>	<b>38,193</b>	<b>120</b>	<b>0.31%</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	294	500	500	500	0	0.00%
SUBTOTAL	294	500	500	500	0	0.00%
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	16,655	16,482	16,482	15,502	(980)	(5.95%)
53104 Other Interest Expense	(689)	0	0	0	0	N/A
53105 Costs of Issuance	0	0	0	0	0	N/A
SUBTOTAL	15,965	16,482	16,482	15,502	(980)	(5.95%)
<b><u>OTHER FINANCING USES</u></b>						
57011 Transfers Out - within a Fund	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	6,938	16,125	16,125	16,875	750	4.65%
59005 Admin Control Acct Clearing	(6,938)	(16,125)	(16,125)	(16,875)	(750)	4.65%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>16,259</b>	<b>16,982</b>	<b>16,982</b>	<b>16,002</b>	<b>(980)</b>	<b>(5.77%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Change in Principal due to Bond Reallocation	0	0		0		
Change in Bond Premium due to Bond Reallc	0	0		0		
Accrual of Principal Payment - Revenue Bond	(6,938)	(6,938)		(6,938)		
Principal Payment	0	(16,125)		(16,875)		
Amortization of Bond Premium	(689)	0		0		
Unrealized Gain/ Loss (GASB 31)	2,977	0		0		
Change in Reserved Fund Balance	0					
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$90,469</b>	<b>\$87,997</b>		<b>\$86,375</b>		

**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: **Common Facilities Revenue Bonds 2019**

Fund/Department No: **44310** **33047800**

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$1,018,252</b>	<b>\$7,561</b>		<b>\$52,645</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	190,287	2,000	33,150	480	(32,670)	(98.55%)
44003 Other Interest Earnings	5,927	0	0	0	0	N/A
44050 Unrealized Gains and Losses	47,747	(60,000)	0	0	0	N/A
SUBTOTAL	243,961	(58,000)	33,150	480	(32,670)	(98.55%)
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	649,709	677,117	677,117	674,569	(2,548)	(0.38%)
47102 Transfers In - btw Govtl Funds	0	0	0	0	0	N/A
SUBTOTAL	649,709	677,117	677,117	674,569	(2,548)	(0.38%)
<b>TOTAL REVENUES</b>	<b>893,670</b>	<b>619,117</b>	<b>710,267</b>	<b>675,049</b>	<b>(35,218)</b>	<b>(4.96%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,290	2,000	2,000	2,000	0	0.00%
SUBTOTAL	1,290	2,000	2,000	2,000	0	0.00%
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	331,755	321,061	321,061	307,774	(13,287)	(4.14%)
53104 Other Interest Expense	(54,724)	0	0	0	0	N/A
53105 Costs of Issuance	174,687	0	0	0	0	N/A
SUBTOTAL	451,718	321,061	321,061	307,774	(13,287)	(4.14%)
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	9,733,600	0	0	0	0	N/A
57012 Transfers Out - btw Govtl Fund	0	0	0	0	0	N/A
SUBTOTAL	9,733,600	0	0	0	0	N/A
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	250,972	265,736	265,736	276,808	11,072	4.17%
59005 Admin Control Acct Clearing	(250,972)	(265,736)	(265,736)	(276,808)	(11,072)	4.17%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>10,186,608</b>	<b>323,061</b>	<b>323,061</b>	<b>309,774</b>	<b>(13,287)</b>	<b>(4.11%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	8,127,078	0		0		
Deposit to Cost of Issuance Fund	0	0		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Principal Payment	(250,973)	(250,973)		(276,808)		
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	1,094,484	0		0		
Loss on Refunding of Debt	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(47,747)	0		0		
Changed in Reserved Fund Balance	(585,872)	0		0		
Rounding	1	1		0		
<b>ENDING FUND BALANCE</b>	<b>\$7,561</b>	<b>\$52,645</b>		<b>\$141,113</b>		



**FY 2021-22 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2019

Fund/Department No:

44315

33047900

Account Title	Actual 2019-2020	Estimated 2020-2021	Adopted 2020-2021	Requested 2021-22	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$227,482</b>	<b>\$395,101</b>		<b>\$136,872</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	64,708	26,520	26,520	480	(26,040)	(98.19%)
44003 Other Interest Earnings	2,102	0	0	0	0	N/A
44050 Unrealized Gains and Losses	17,131	(20,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>83,941</b>	<b>6,520</b>	<b>26,520</b>	<b>480</b>	<b>(26,040)</b>	<b>(98.19%)</b>
<b>OTHER FINANCING SOURCES</b>						
47101 Transfers In - within a Fund	207,354	240,528	240,528	239,626	(903)	(0.38%)
47102 Transfers In - btw Govtl Funds	0	60,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>207,354</b>	<b>300,528</b>	<b>240,528</b>	<b>239,626</b>	<b>(903)</b>	<b>(0.38%)</b>
<b>TOTAL REVENUES</b>	<b>291,295</b>	<b>307,048</b>	<b>267,048</b>	<b>240,106</b>	<b>(26,943)</b>	<b>(10.09%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,210	1,000	1,000	1,000	0	0.00%
<b>SUBTOTAL</b>	<b>1,210</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	117,684	113,890	113,890	109,177	(4,713)	(4.14%)
53104 Other Interest Expense	(19,412)	0	0	0	0	N/A
53105 Costs of Issuance	61,967	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>160,238</b>	<b>113,890</b>	<b>113,890</b>	<b>109,177</b>	<b>(4,713)</b>	<b>(4.14%)</b>
<b>OTHER FINANCING USES</b>						
57011 Transfers Out - within a Fund	2,900,000	500,000	500,000	200,000	(300,000)	(60.00%)
<b>SUBTOTAL</b>	<b>2,900,000</b>	<b>500,000</b>	<b>500,000</b>	<b>200,000</b>	<b>(300,000)</b>	<b>(60.00%)</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	89,028	94,265	94,265	98,193	3,928	4.17%
59005 Admin Control Acct Clearing	(89,028)	(94,265)	(94,265)	(98,193)	(3,928)	4.17%
<b>SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>3,061,448</b>	<b>614,890</b>	<b>614,890</b>	<b>310,177</b>	<b>(304,713)</b>	<b>(49.56%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Unrealized Gains and Losses	0	0		0		
Proceeds Bond Issuance	2,882,922	0		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Accrual of Principal Payment - Revenue Bonds	(89,027)	(94,264)		0		
Principal Payment	0	0		0		
Deposit to Cost of Issuance Fund	0	0		0		
Bond Premium - Issuance of Revenue Bonds	388,247	388,247		0		
Amortization of Bond Premium	(19,413)	(19,413)		0		
Unrealized Gain/ Loss (GASB 31)	(17,131)	(17,131)		0		
Change in Reserved Fund Balance	(207,826)	(207,826)		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$395,101</b>	<b>\$136,872</b>		<b>\$66,801</b>		

**REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY21-22**

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>2012 A Revenue Bond</b>	<b>44275</b>	<b>TBD</b>	<b>TBD</b>	<b>44280</b>	<b>44285</b>
PRINCIPAL	256,355			183,077	150,568
INTEREST	111,493			79,623	65,485
OTHER INTEREST - DEFERRED REFUNDING CHARGE	7,787			5,526	4,585
FISCAL AGENT FEES	1,500			1,000	1,000
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	377,135	0		269,226	221,638
Bond Reserve	56,571	0		40,384	33,246
<b>Total Individual Bond Debt Service</b>	<b>433,706</b>	<b>0</b>		<b>309,610</b>	<b>254,884</b>
<b>2015A Revenue Bond</b>	<b>44295</b>			<b>44290</b>	<b>44305</b>
PRINCIPAL	574,581			238,545	16,875
INTEREST	483,190			169,141	15,502
OTHER INTEREST - DEFERRED REFUNDING CHARGE	4,516			5,058	0
FISCAL AGENT FEES	2,500			1,500	500
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	1,064,787			414,244	32,877
Bond Reserve	159,719			62,137	4,932
<b>Total Individual Bond Debt Service</b>	<b>1,224,506</b>			<b>476,381</b>	<b>37,809</b>
<b>2019A Revenue Bond</b>					
PRINCIPAL	276,808				98,193
INTEREST	307,774				109,177
FISCAL AGENT FEES	2,000				1,000
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	586,582			0	208,370
Bond Reserve	87,988			0	31,256
<b>Total Individual Bond Debt Service</b>	<b>674,570</b>			<b>0</b>	<b>239,626</b>
<b>2013 Capital Fund Loan Requirement</b>					
PRINCIPAL	0				
INTEREST	0				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
DISCOUNT/BONDS	0				
Total Individual Loan Payments	0				
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>				
<b>2013 Santa Rosa AQ Capital Fund Loan</b>					
PRINCIPAL					
INTEREST					
FISCAL AGENT FEES					
DEBT ISSUANCE COSTS					
DISCOUNT/BONDS					
Total Individual Loan Payments					
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>			<b>0</b>	<b>0</b>
<b>2013 Petaluma AQ Capital Fund Loan</b>					
PRINCIPAL					
INTEREST					
FISCAL AGENT FEES					
DEBT ISSUANCE COSTS					
DISCOUNT/BONDS					
Total Individual Loan Payments					
Loan Reserve					
<b>Total Individual Loan Debt Service</b>	<b>0</b>			<b>0</b>	
1. 09/10 Financing Exp for Common Fac incl above until index established	<b>Mirabel Generators</b>				
PRINCIPAL	0				
INTEREST	0				
FISCAL AGENT FEES	0				
DEBT ISSUANCE COSTS	0				
Total Individual Bond Payments	0	0	0	0	0
Reserve	0	0	0	0	0
<b>Total Individual Financing Debt Service</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY21-22**

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>SRF LOAN</b>	<b>44265</b>				
PRINCIPAL	862,613			N.A	N.A
INTEREST	177,619			N.A	N.A
Total Individual Loan Payments	1,040,232				
Reserve Requirement	156,035				
<b>Total SRF Debt Service</b>	<b>1,196,267</b>				
<b>SRF LOAN RESERVE</b>					
RESERVE				N.A	N.A
<b>Total SRF Debt Service</b>	<b>1,196,267</b>				
<b>TOTAL DEBT SERVICE</b>	<b>\$3,529,049</b>	<b>\$0</b>	<b>\$0</b>	<b>\$785,991</b>	<b>\$532,318</b>
LESS REV. FROM N. MARIN REV. BOND CHARGES	353,652				
<b>REMAINING REVENUE REQUIREMENT</b>	<b>\$3,175,397</b>	<b>\$0</b>	<b>\$0</b>	<b>\$785,991</b>	<b>\$532,318</b>

**B. CALCULATIONS OF WATER RATES FOR FY21-22**

	Common Facilities Debt Service Charge	Watershed Plan Restoration Debt Service Charge	Water Conservation Debt Service Charge	Storage Facilities Revenue Bonds Charge	Sonoma Pipeline Facilities Revenue Bonds Charge
REVENUE REQUIREMENT	\$3,175,397.00	\$0	\$0	\$785,991	\$532,318
APPLICABLE BASE WATER DELIVERIES IN A.F.	34,001.32	45,994.3	45,994.3	34,001.32	4,200.6
<b>CHARGES PER ACRE-FEET</b>	<b>\$93.39</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$23.12</b>	<b>\$126.72</b>

**C. CALCULATIONS OF NORTH MARIN REVENUE BONDS CHARGE**

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE ( <i>Remaining Facilities per RA 4.3a2</i> )	2,854,480
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (11.2/90.4))	353,652
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>6,224</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>56.82</b>
REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE ( <i>Additional Facilities per RA 4.3b9</i> )	-
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (19.9/146.2))	-
<b>ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)</b>	<b>6,224</b>
<b>NORTH MARIN REVENUE BONDS CHARGE</b>	<b>-</b>
1,970,357	0
0	421,622
	265,636

<b>Common Facilities</b>		<b>NMWD Cash for 2019 Common Bonds</b>	
Debt Service RA 4.3a2 ( <i>remaining facilities</i> )	2,854,480	Total Revenue Required	\$2,854,480
N. Marin's Share (11.2/90.4)	353,652	Debt service - Additional Facilities	
Estimated Water Deliveries to N. Marin	6,224	Revenue base for NMWD	\$2,854,480
Applicable portion of the N. Marin R. Bonds Charge	<b>\$56.82</b>		

2015A New Money P&I Begins 2020

**NMWD pd cash**

Debt Service RA 4.3b9 ( <i>additional facilities</i> )	0
N. Marin's Share (19.9/146.2)	-
Estimated Water Deliveries to N. Marin	6,224
Applicable portion of the N. Marin R. Bonds Charge	<b>\$</b>
Total NMWD Share	353,652
NMWD Total Bonds Charge	<b>\$56.82</b>

**FY 2021-22 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		449,129	629,680	629,808	128
Petaluma Aq. Capital Fund	44235	0		253,676	6,991,155	6,991,155	0
Sonoma Aq. Capital Fund	44240	0		351,642	467,182	467,182	(0)
Sonoma Rev Bond 2012 Fund	44285	0	Sonoma AQ	254,884	267,132	267,132	0
Sonoma Rev Bond 2015 Fund	44305	0	Sonoma AQ	37,809	86,375	86,375	0
Sonoma Rev Bond 2019 Fund	44315	200,000	Sonoma AQ	239,626	66,801	66,801	0
Storage Rev Bond 2012 Fund	44280	50,000	Storage Facilities	309,610	17,285	17,285	0
Storage Rev Bond 2015 Fund	44290	70,000	Storage Facilities	476,381	90,137	90,136	(0)
Common Rev Bond 2012 Fund	44275	0	Common Facilities	433,705	365,598	365,598	0
Common Rev Bond 2015 Fund	44295	180,000	Common Facilities	1,224,505	496,542	496,542	0
Common Rev Bond 2019 Fund	44310	0	Common Facilities	674,569	141,113	141,113	0
State Loan Debt Service	44265	120,000	Common Facilities	1,196,267	480,906	480,906	0
State Loan Reserve	44270	0		0	(0)	(0)	0
Capital Lease Financing		0		0	0	0	0
Agency Fund (Discretionary)	44205	1,646,689	Common Facilities	0	8,480,472	8,480,472	0
Agency Fund (Charges)	44205	13,908,250		0			
Pipeline Facilities	44255			0	0	0	0
Storage Facilities	44250			120,000	109,078	109,078	0
Common Facilities	44260			1,946,689	491,137	491,137	0
North Marin	44300	0		0	74,504	74,504	0
Water Management Planning	44210			230	399,963	399,963	(0)
Watershed Planning/Restoration	44215			6,114,794	3,793,868	3,793,868	0
Recycled Water & Local Supply	44220			43,000	117,850	117,850	0
Water Conservation	44225			2,048,425	496,739	496,740	0
<b>Total</b>		<b>16,174,939</b>		<b>16,174,939</b>	<b>24,063,515</b>	<b>24,063,643</b>	<b>128</b>

Common Facilities OT - in 47101 From

Water Transmission (discretionary)	1,646,689
Water Transmission (Charges)	-
North Marin	-
2012 Bond Fund	-
2015 Bond Fund	180,000
2019 Bond Fund	-
State Loan Debt Service	120,000
	<u>1,946,689</u>

O&M Rate Computation

Revenue Requirement - Transfers Out:

13,908,250

Agency Fund (Charges) OT - Out To:

<u>AQ Capital Funds</u>	
Santa Rosa Aq. Capital Fund	449,129
Petaluma Aq. Capital Fund	253,676
Sonoma Aq. Capital Fund	<u>151,642</u>
	854,447

Agency Fund (Charges) OT - Out To:

<u>Summary</u>	
AQ Capital Funds	854,447
Debt Service Funds	4,847,355
WT Subfunds	<u>8,206,449</u>
	13,908,250

Debt Service Funds

Sonoma Rev Bond 2012 Fund	254,884
Sonoma Rev Bond 2015 Fund	37,809
Sonoma Rev Bond 2019 Fund	239,626
Storage Rev Bond 2012 Fund	309,610
Storage Rev Bond 2015 Fund	476,381
Common Rev Bond 2012 Fund	433,705
Common Rev Bond 2015 Fund	1,224,505
Common Rev Bond 2019 Fund	674,569
State Loan Debt Service	1,196,267
State Loan Reserve	0
Capital Lease Financing	<u>0</u>
	4,847,355

Capital Funds and North Marin

1,646,689

Total

15,554,939

Capital Funds and North Marin

Pipeline Facilities	0
Storage Facilities	0
Common Facilities	1,646,689
North Marin	<u>0</u>
	1,646,689

WT Subfunds

Water Management Planning	230
Watershed Planning/Restoration	6,114,794
Recycled Water & Local Supply	43,000
Water Conservation	<u>2,048,425</u>
	8,206,449

<b>Total</b>	<b>15,554,939</b>
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## MEMORANDUM

To: Board of Directors

February 12, 2021

From: Tony Williams, Assistant General Manager/Chief Engineer *AW*  
Ryan Grisso, Water Conservation Coordinator *RG*Subject: 2020 Urban Water Management Plan Status Update  
R:\Folders by Job Nov\000 jobs\W050.01 2020 UWMP\BOD Memos\UWMP Update 2-16-21 rev1.doc**RECOMMENDED ACTION:** Information**FINANCIAL IMPACT:** None at this time

Urban water suppliers are required to prepare Urban Water Management Plans (UWMP) to support their long-term water resource planning and to ensure that adequate water supplies are available to meet existing and future water demands. The District is defined as an urban water supplier due to the fact that we provide more than 3,000 acre-feet of water per year to our customers and have more than 3,000 connections (This only applies to the Novato Service area). This update is required every five years and the next UWMP update is due for submittal to the Department of Water Resources by June 30, 2021.

In November 2019, the Board authorized a letter agreement with the City of Santa Rosa to hire EKI Environment and Water, Inc. (EKI), to update the demand analysis and water conservation measures for the 2020 UWMP for all water contractors in the Sonoma Marin Saving Water Partnership. EKI staff from their Burlingame, CA office completed this work on behalf of the District and the final report will be included in the UWMP. The gross water demand estimates are now projected at the year 2045 to comply with the 2020 UWMP requirements and total 10,284 acre feet per year (AFY). This is a continued reduction in gross demand from the 2015 UWMP calculations completed by Maddaus Water Management. The continued reduction is due to continued lower population and job growth estimates pursuant to updated ABAG projections over the next 25-year planning period as well as lower 2020 starting year demands when compared to estimated 2020 demands in the 2015 UWMP. The lower 2020 demands are due to NMWD's continued aggressive water conservation programs and recycled water expansion, combined with demand hardened customer (post 2014-2016 drought) coupled with plumbing code and Cal-Green measures. The District was able to incorporate an increase in population due to the projected increase in housing units thought to be imposed on the City of Novato in the near future. There will be a much more detailed presentation on the future demand projections and water conservation measures when the formal UWMP is presented to the Board.

Leveraging the demand analysis and conservation work that EKI was performing on behalf of the District, along with their involvement in the UWMP Guidebook development, staff recommended and the Board approved a contract with EKI to assist in writing all components of the District's UWMP, including the final submittal to the California State Department of Water Resources (DWR).

The 2020 UWMP will include all of the information and analysis required by DWR. The following outlines the various sections of the Plan:

- Section 1 Introduction
- Section 2 Plan Preparation
- Section 3 Novato Service Area and System Description
- Section 4 System Water Demands
- Section 5 Baseline Water Use and Water Conservation Targets (SBX7-7)
- Section 6 Water System Supplies
- Section 7 Water Supply Reliability
- Section 8 Water Shortage Contingency Planning
- Section 9 Water Demand Management Measures
- Section 10 Plan Adoption and Submittal to DWR
- Section 11 References

The Water Shortage Contingency Planning (Section 8) will result in a stand-alone Shortage Contingency Plan (WSCP), which requires separate but simultaneous adoption by the Board, along with the 2020 UWMP adoption.

The Plan is currently on schedule for all of the specified deadlines for review and adoption. The 2020 UWMP must be submitted to DWR by July 1, 2021 and a public hearing must be held prior to its adoption. We have properly noticed (as required) other water suppliers, wastewater agencies and planning agencies to provide the 60-day notification prior to hearing. Staff will request noticing the public hearing at the April 20, 2021 Board meeting, approving the updated Water Shortage Contingency Plan at the April 20, 2021 meeting and to hold the public hearing to approve the UWMP on June 21<sup>st</sup> along with the regular Board meeting on that date.

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## MEMORANDUM

To: Board of Directors February 26, 2021  
From: Pablo Ramudo, Water Quality Supervisor *PR*  
Subject: Point Reyes System Salinity Intrusion Alternate Water Supply Contingency Plan  
p:\lab\wq supv\2021\draft memo to board re pr alternative source.doc

**RECOMMENDED ACTION:** Provide Direction to Staff

**FINANCIAL IMPACT:** Potential impact of up to \$98,000 in FY 2021/2022

Seasonal salinity intrusion has been observed in water produced from North Marin Water District's wells situated adjacent to the former Coast Guard housing facility for decades. The problem has worsened significantly in the past several years, going from an infrequent problem affecting taste for a few days every few years, to a persistent exceedance of secondary standards for chloride and conductivity for almost half the year. In the past, NMWD was able to mitigate the saltier water by supplementing with water supplied from the Gallagher well, blending with the Coast Guard well water to dilute the salts. Over the past four years, however, salt levels have increased dramatically in the coast guard wells to the point that in 2020, even after blending with Gallagher well water to the maximum extent possible, the water produced and distributed had a very salty taste noted by many of NMWD's customers.

**SALINITY INTRUSION 2020**

Water served to customers beginning on or around July 7, 2020 was above the secondary standards for chloride (250mg/L) and conductivity (900 $\mu$ S/cm<sup>2</sup>) until December 15, 2020. During this time the sodium concentration was also above the district's own 50 mg/L customer notification threshold. Many customers complained about the salty taste and reported their apprehension to use the water for drinking and cooking, citing their sodium restricted diets and health problems, potentially made worse with the increased salt intake. For most people, the amount of sodium contributed to their diet by drinking water would not be problematic from a health perspective, even though they may find the salty taste unpalatable.

## **SODIUM INTAKE, RESTRICTIONS, AND THEIR RELATION TO DRINKING WATER**

Sodium is an essential nutrient, necessary for proper nerve and muscle function and to balance fluid levels in the body. The US Dietary Guidelines recommend a daily intake for sodium from all sources of 2,300 milligrams (mg) per day. Persons with underlying health conditions such as chronic kidney disease, high blood pressure, or heart disease may be restricted to no more than 2,000 mg per day. More serious disease affected by sodium may carry recommendations for limiting sodium intake to 1,500 mg per day. Despite recommendations, average daily sodium consumption in America is about 3,400 mg per day

During the period between July and December 2020, the highest sodium concentration of the water distributed to customers was 264 milligrams per Liter (mg/L) with a median value of 117mg/L. Given the standard adult consumption is 2 liters of water per day, this translates to a maximum daily sodium contribution to the diet of about 528 mg from drinking water alone, or 234 mg on average during the 6-month period in which salinity intrusion affected distributed water. In the first 6-month period of 2020, the average sodium concentration in distributed water was 15mg/L, or a daily sodium contribution of 30 mg.

It is difficult to know how many NMWD customers in the West Marin service area are under sodium restricted diets. A nationwide poll conducted in 2014 reported that 36% of households have at least one member that is on a sodium restricted diet. In the West Marin system this could translate to about 250 residential accounts, or up to 650 individuals.

## **MITIGATION OF INCREASED SODIUM INTAKE**

Increased sodium intake from drinking water can be offset by making changes in the diet. These changes can include avoiding foods that are high in salt and adjusting the amount of salt in recipes in order to keep sodium intake below a daily value.

This may be difficult for some people on a severe sodium restriction and/or if they have little control over the foods that are available to them. Some of these people may have to use an alternative source of drinking water during times when the sodium concentration in drinking water

would present a dietary contribution above that which could be offset by changes in diet.

Due to there being no primary standard for sodium in drinking water, and because the (secondary) standards associated with higher salts are non-enforceable levels based simply on aesthetics, North Marin Water District is not under any regulatory obligation to provide alternative sources of drinking water. NMWD is committed not only to serving water to customers that meets or surpasses all state and federal standards for quality, but also tastes good. Significant investments are being made for the permitting and construction of a new source well that is not vulnerable to salinity intrusion and is capable of meeting the production demands of the system. It is possible the new well may be available for use July 2021 when salt levels would be expected to increase again. If the well cannot be placed into service by this time, a portion of NMWD's customers with severe sodium restrictions may again find it necessary to use alternative sources of water. We have heard a call from some of these customers, such as representatives from the Point Reyes Village Association, advocating for NMWD to provide water from alternative sources.

## **OPTIONS TO PROVIDE ALTERNATIVE SOURCES OF WATER**

There are several potential ways NMWD could provide for alternative sources of drinking water in the case of another prolonged period of salinity intrusion. The options are listed as follows:

**Option 1:** Assemble water fill stations connected to a standalone tank at a local distribution point. Water produced to fill the tank will come solely from Gallagher well.

**Option 2:** 275 Gallon Totes filled in Novato; trucked and staged at a distribution point daily.

**Option 3:** Bottled water purchased and distributed to customers via a designated distribution point.

**Option 4:** A credit provided on the customer's water bill which could be used to reimburse some or all the expense of bottled water.

**Option 5:** Do not provide an alternative source of water.

## Logistics and costs

### Assumptions

- Number of residents that will take part in the alternate water source program:  
**650 participants**
- Water served per customer: **2 Liters per day** (based on EPA's average consumption estimates)
- Volume needed for program: 650 (participants) x 2 (Liters per participant per day) =  
**1300 Liters or 343 Gallons per day**
- Water will be provided while sodium concentration is above 115 mg/L, a value representing 10% of the recommended daily sodium intake: based on 2020 this would be approximately  
**21 Weeks or 147 days.**

### Option 1

Use of a 5,000-gallon polyethylene tank suitable for potable water to be placed at a location able to serve as a distribution point. Fill stations will be assembled and connected to the tank using flexible lines. The tank will be filled with potable water produced solely from Gallagher well, if possible.

If running the system with only Gallagher well to fill the tank is not possible due to high demand, the tank can be filled via a potable water delivery service. Pardini offers 3500-gallon deliveries in the area for \$275 or bills \$120 per hour if we supply the water from our Novato system.

Tank purchase and delivery \$3,550

Daily cost: \$25 per day

Total Cost for 2021: \$3550 plus the cost of water

## **Option 2**

275-gallon HDPE tank/totes can be purchased locally for approximately \$400. Two of these totes can be filled in Novato and trucked to a location capable of serving as a distribution point using NMWD's flatbed truck #19. Water would be available during the work week and each participant would have an assigned weekday to come and receive water for a full week (3.7 gallons). The totes would be kept on the truck which would require its dedicated use for the duration of the program. Cost of fuel for the daily trips and labor for the driver to refill the totes would be the main cost.

Two 275-gallon totes =\$800

32.8 miles/10 miles per gallon=3.3 gallons of diesel x \$3.80 per gallon=\$12.54 per day in fuel

Staff time 6 hours per day X \$80 per hour=\$480 per day

Daily Cost: \$498 plus the cost of water

Total cost for 2021: \$73,190

## **Option 3**

Bottled water can be purchased by NMWD and delivered to a distribution point in Point Reyes Station for \$490 for a pallet of 1920 half-liter bottles, or around \$1 per person/per day. There are community organizations operating in Point Reyes Station that could partner in making this water available to designated customers on our behalf.

960 Liters / \$490

Daily Cost: \$663

Total Cost for 2021: \$97,461

## **Option 4**

A credit program would eliminate the logistical problems associated with other options but would require more administrative oversight by NMWD accounting/billing staff to organize and implement a web-based water bill credit program.

As the cost of any plan to provide alternative sources of drinking water or a water bill credit will be borne by the NMWD customers in the Point Reyes system, there will need to be adequate criteria for eligibility and sufficient funding to make sure that those customers who have salt restrictive diets were adequately served.

### **Option 5**

As noted above, water served by NMWD meets all health-based, primary standards. This means that there is no regulatory obligation to provide an alternative source of water. Customers would procure water from alternative sources at their option and cost.

### **SUMMARY**

It is Staff's recommendation to move forward with Option 1 using a temporary storage tank and associated fill stations located at the former Coast Guard Housing property along Commodore Webster Road. This location is near the District's Point Reyes Water Treatment Plant to facilitate ease of refilling the temporary storage tank with Gallagher Well water. This option has been discussed with representatives of the Point Reyes Village Association as well as Marin County representatives (current owner of the former Coast Guard Housing property)

### **RECOMMENDATION**

Board to consider options for providing an alternative source of potable water for customers with sodium restricted diets when sodium concentrations exceed 115 mg/L and provide direction to staff.

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## MEMORANDUM

To: Board of Directors  
From: Pablo Ramudo, Water Quality Supervisor *PR*  
Subject: FY 2020-21 Second Quarter Progress Report – Water Quality  
p:\lab\wq supv\wq reports\2021\2nd qtr fy21 wq rpt.doc

February 26, 2021

**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** None

The water served to the communities of Novato and Point Reyes met federal and state primary and secondary water quality standards during the second quarter of fiscal year 2020-2021

Following is a review of the activities and water quality issues in regards to:

- Source Water
- Treatment Performance
- Distribution System Water Quality
- Novato Recycled Water

## NOVATO SYSTEM

### Source Water: Stafford Lake

Stafford Lake water was used as a source of drinking water during the second quarter until November 2<sup>nd</sup>. Water quality was monitored on a biweekly basis for chemical and mineral components as well as microbiological activity. The Stafford Treatment Plant (STP) shutdown occurred earlier than planned, due to very elevated manganese in raw water.

Algae were identified and enumerated from one sample from the raw water. Algae numbers were moderate with low diversity. Only three species of algae were recorded in appreciable numbers, all of them cyanobacteria (blue-green algae) capable of producing compounds which can affect taste and odor.

### Treatment Performance: Stafford Treatment Plant

Total organic carbon (TOC) removal was excellent, well above the 35% requirement of the Enhanced Surface Water Treatment Rule. Operators were able to achieve 76% TOC removal with a finished water TOC concentration of 2.5 mg/L, just above the district's goal of a maximum 2.0 mg/L.

The treatment plant's ability to remove manganese from the raw water was overwhelmed in early November, prompting operators to shut the plant down for the season prematurely. Increased manganese in the lake was due to anoxic conditions in the deepest sections, which causes metals in the sediment to dissolve and rise into the water column.



### **Distribution System: Novato**

Of 253 samples collected for compliance with the Total Coliform Rule, none were positive for coliform bacteria. Disinfection byproducts were low during the quarter and well within standards of the Stage 2 Disinfection By-Product Rule, except for one sample location representing the entry point from the Stafford Treatment Plant which showed total trihalomethanes above the MCL. This problem exists when Stafford Treatment Plant is off for the season and the distribution system valving to eliminate the STP transmission line causes this location to become a dead end. In response to the high THM value, an operational solution was identified and put into place where this area is flushed at the same time the valving configuration is changed.

## **POINT REYES SYSTEM**

### **Source Water: Coast Guard Wells**

Raw water quality, by most measures, was good throughout the quarter, however water quality parameters affected by salt water were elevated throughout the quarter to unprecedented levels. These peaked in early November and then fell throughout December. The sodium concentration ranged from 180 to 470 mg/L and chloride ranged from 520 to 1500 mg/L. Bromide, the seawater constituent that has been responsible for previous exceedances of trihalomethane (THMs) regulatory limits, increased from 1.9 to 5.1 mg/L.

### **Source Water: Gallagher Well**

Raw water quality was good throughout the quarter. Water quality parameters affected by saltwater are very low from this source and because the well is not prone to intrusion from seawater, concentrations of salts are very steady. The average concentration of sodium was 10 mg/L, chloride was 12 mg/L, and the bromide concentration was 0.07 mg/L.

### **Treatment Performance: Point Reyes Treatment Plant**

The Point Reyes Treatment Plant is designed to provide disinfection and to remove iron and manganese, the two primary contaminants of groundwater in the area. Treatment in these respects was excellent, neither iron or manganese being detectable in finished water and all bacterial tests were clean.

Water was primarily sourced from Gallagher Well when possible, which was supplemented with water from the Coast Guard wells during times of higher demand. Water from the two sources is blended prior to treatment.

#### **Distribution System: Point Reyes**

There were 23 samples collected for routine monitoring and compliance with the total coliform rule, none tested positive for coliform bacteria. Chlorine residual concentrations throughout our distribution system were good.

Disinfection byproducts decreased from the previous quarter despite the high concentration of bromide in water produced from the Coast Guard wells. This can be credited to operational changes put in place to keep the disinfectant dose as low as practical and to lower water age through pumping practices.

#### **NOVATO RECYCLED WATER**

##### **Deer Island Recycled Water Facility**

The Deer Island facility was off during the quarter.

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## MEMORANDUM

To: Board of Directors

February 12, 2021

From: Robert Clark, Operations / Maintenance Superintendent 

Subject: FY 2020-21 Second Quarter Progress Report – Operations/Maintenance

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**RECOMMENDED ACTION:** Information**FINANCIAL IMPACT:** None**Safety Committee**

The Safety Committee reviewed six safety incidents, two of which were recordable incidents resulting in a total of 15 lost work days. Calendar year 2020 ended with 44 consecutive days without a lost day incident. Staff participated in five safety training courses as well as other activities that included Construction tailgate meetings, pre-employment skills testing, hearing tests, and North Bay Safety Managers' meetings.

**Operations and Maintenance Summary**

Stafford Treatment Plant treated 211 MG between July and December 2020 and shut down production activities on October 8<sup>th</sup> (versus November 27<sup>th</sup> last year). This production volume was 145 MG less than the prior five year average due to limited rainfall. Due to dry year conditions it is unlikely that staff will be able to produce 439 MG in spring to reach 100% of the annual target of 650 MG by the end of June.

Point Reyes Treatment Plant treated 42.9 MG for the period July 1<sup>st</sup> – December 31<sup>st</sup> 2020, tracking 19% lower from last year's 52.8 MG.

In Oceana Marin, normal operation and maintenance work was completed on time. Wastewater volume was up 12% to 3.4 MG vs 3.0 MG in 2019 for the same period. Freeboard in the ponds was 7.6 feet in the treatment pond and 10.4 in the storage pond.

The recycled water system customer base is now 91 accounts with another six in the planning phase. Both Las Gallinas Valley Sanitary District and Novato Sanitary District consistently produced recycled throughout 2020. The combined recycled water production volumes for the period July 1<sup>st</sup> – December 31<sup>st</sup> were 157 MG for this year compared to 142 MG last year a 10% increase. In all, the Novato recycled water use was around 10% of the total water use in Novato for the same period.

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**DISBURSEMENTS - DATED FEBRUARY 18, 2021**

Date Prepared 2/16/21

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

Seq	Payable To	For	Amount
1	Alpha Analytical Labs	Lab Testing	\$55.00
2	Athens Administrators	January Indemnity Review Fee	105.00
3	Automation Direct	Programmable Logic Controllers for Pump Station	292.95
4	Bay Area Barricade Service	Blue & Orange Reflective Tape (\$476), "High Pressure Water Line" Reflective Stickers (30) (\$129), Signs "Steel Plates Ahead" (4) (\$250) & Traffic Cones (30) (\$311)	1,166.45
5	Borges & Mahoney	Parts to Rebuild Chlorine Gas Regulators @ STP	3,862.05
6	Chandrasekera, Carmela	Retiree Exp Reimb (Jan Health Ins)	1,063.97
7	Cilia, Joseph	Retiree Exp Reimb (Jan Health Ins)	372.37
8	Clipper Direct	March Commuter Benefit Program (2)	49.00
9	Diesel Direct West	Diesel (64 gal)	220.91
10	EKI Environment & Water	Prog Pymt#3: Prepare 2020 Urban Water Management Plan Update (Balance Remaining on Contract \$28,605)	8,074.82
11	Evoqua Water Technologies	Jan Service on Deionization System (Lab)	292.77
12	Fisher Scientific	Petri Dishes (600) (Lab)	135.43
13	Frontier Communications	Leased Lines	1,444.50
14	GHD	Prog Pymt#2: Old Ranch Road Tank No. 2 Design Services (\$14,842) (Balance Remaining on Contract \$90,767) & Prog Pymt#17: Engineering Services for the Oceana Marin Pond Rehab Project (\$824) (Balance Remaining on Contract \$21,089)	15,665.94

Seq	Payable To	For	Amount
15	Grainger	Rubber Boots (Kauwe) (\$112), Pipe Wrench for Cross Connection Control (\$141), Sump Pump Parts & Fittings (\$411), Anti Seize Lubricant (10) (\$256) & Miscellaneous Maintenance Tools & Supplies (\$370)	1,289.58
16	Hildebrand Consulting	Prog Pymt#4: West Marin Water Rate Study 2021 (Balance Remaining on Contract \$5,880)	9,660.00
17	Holton, Nancy	Exp Reimb: Office Supplies Due to Working Remotely	81.18
18	InfoSend	January Fee for Processing Water Bills (\$919) & Postage (\$2,539)	3,457.70
19	Jackson, David	Retiree Exp Reimb (Jan Health Ins)	1,063.97
20	Latanyshyn, Roman	Retiree Exp Reimb (Jan Health Ins)	372.37
21	Lemos, Kerry	Retiree Exp Reimb (Jan Health Ins)	1,063.97
22	Manzoni, Alicia	Retiree Exp Reimb (Jan Health Ins)	1,063.97
23	Marin Municipal Water District	Water Deliveries to Lagunitas Creek-2020 (9.4 AF) (\$2,203) & Nicasio Surplus Water (1.02 AF) (\$229)	2,431.66
24	Marin County Ford	Service Parts ('10 F150-\$61 & '20 F250-\$85)	146.41
25	McLellan, WK	Misc Paving	9,705.83
26	McMaster-Carr Supply	Tank Switches (4)	173.81
27	Mitch's Certified Classes	Backflow Prevention Assembly Tester Workshop (2/4-2/5/21) (Davenport)	700.00
28	Novato Builders Supply	Sign for B/G Shop, Filter Maintenance Supplies (STP) (\$82), Concrete (\$114), Rebar (4) & Mortar (4)	298.95
29	Novato Sanitary District	Treatment & Disposal of Discharge from STP	1,176.30
30	Office Depot	Copy Paper (90 Reams)	390.50
31	Pace Supply	Gaskets (8), PVC Pipe (220') (\$5,579), Corp Stops (62) (\$2,464), 4" Bolts (4) (\$97) & Bench Pipe Vise (\$232) (Less Credit of \$702 Received for Returned Parts)	7,699.87

Seq	Payable To	For	Amount
32	PG&E	Energy Bill for District Apartment (\$15) & Power: Bldgs/Yard (\$4,071), Other (\$137), Pumping (\$31,294), Rect/Controls (\$514) & Treatment (\$241)	36,273.09
33	Protection Engineering	Coal Tar Epoxy (2) (STP)	206.92
34	Quadiant	March Postal Meter Rental	143.09
35	Darlene D. Rhodes	HR Consulting (12/11/20-1/25/21)	2,450.00
36	Schwaab	"Ok to Pay" Stamp	49.42
37	Syar Industries	Pea & Sand (48 tons)	1,940.65
38	TPx Communications	February Telephone Charges	636.68
39	United Parcel Service	Delivery Service: Sent Planning Permit, Rock & Soil Samples for Gallagher Well No. 2 & Emergency Action Plan for Stafford Dam	28.34
40	Univar	Sodium Hypochlorite (624 gal) (STP)	1,212.74
41	USA BlueBook	PVC Coupling & Chemical Injection Quill (\$121) (STP)	144.61
42	VWR International	Sulfuric Acid (\$46), Chloride & Phosphate (Lab)	113.14
43	White & Prescott	Prog Pymt#26: Old Ranch Road Tank Site (Balance Remaining on Contract \$7,495)	180.00
44		Vision Reimbursement	16.23
		<b>TOTAL DISBURSEMENTS</b>	<b><u>\$116,972.14</u></b>

The foregoing payroll and accounts payable vouchers totaling \$116,972.14 are hereby approved and authorized for payment.

Julie Blue  
Auditor-Controller

2/16/2021  
Date

*Acting* [Signature]  
General Manager

2/16/2021  
Date



## **DISBURSEMENTS - DATED FEBRUARY 25, 2021**

Date Prepared 2/23/21

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

Seq	Payable To	For	Amount
P/R*	Employees	Net Payroll PPE 2/15/21	\$138,863.60
90357*	Internal Revenue Service	Federal & FICA Taxes PPE 2/15/21	62,616.23
90358*	State of California	State Taxes & SDI PPE 2/15/21	14,098.86
90359*	CalPERS	Pension Contribution PPE 2/15/21	36,869.43
EFT*	US Bank	January Bank Analysis Charge (Lockbox \$912 & Other \$333, Less Interest \$74)	1,171.59
1	AC3	Annual Crane Inspections (4)	1,200.00
2	Alpha Analytical Labs	Lab Testing	395.00
3	American Family Life	February AFLAC Employee Paid Benefit	3,085.53
4	Associated Right of Way Services	Prog Pymt#5: Right of Way Real Estate Services for Gallagher Well # 2 (Balance Remaining on Contract \$21,143)	75.00
5	AT&T	Leased Lines	66.68
6	Bank of Marin	Bank of Marin Principal & Interest (Pymt #112 of 240) Aqueduct Energy Efficiency Project	46,066.67
7	Borges & Mahoney	Chlorine Gas Detector Sensors (3) (STP)	1,350.71
8	Chase	Chase Loan Payment AMI Project (Pymt #6 of 30)	325,145.00
9	Comcast	February Internet Connection	144.92
10	Core Utilities	Consulting Services: Jan IT Support (\$6,000), SCADA Programming (\$600), CORE Billing Maintenance (\$400), Website Maintenance (\$100) & Server Upgrades (\$1,425)	8,525.00
11	Cronin, Irene	Refund Alternative Compliance Reg 15 Deposit	630.00
12	Cummings Trucking	Rock (82 yds) (\$1,225) & Sand (48 yds) (\$1,050)	2,275.00

Seq	Payable To	For	Amount
13	Ditch Witch West	Pin for Vac Excavator ('19 Ditch Witch)	137.35
14	Ehrhardt, Haleigh	Refund Overpayment on Closed Account	164.41
15	Environmental Express	Conical Tube (Lab)	298.02
16	Farwest Corrosion Control	Rockshield (45 sq ft.)	116.32
17	Fisher Scientific	Petri Dishes (600) (\$135) & Bottles (4) (\$245)	380.65
18	GHD	Prog Pymt#31: PRE Water Tank 4A Replacement (Balance Remaining on Contract \$12,537)	875.50
19	Grainger	Spray Guns (3) (\$145), Tool Magnets, Sockets for E/M & Construction (\$331), Solenoid Valves (2) (\$362) (STP) & Miscellaneous Maintenance Tools & Supplies (\$549)	1,387.18
20	InfoSend	January Processing Fee for Water Bills (\$406), Postage (\$1,088) & January Monthly Support Fee (\$850)	2,345.01
21		Vision Reimbursement	114.00
22	Kiosk Creative	Prog Pymt#17: District Directed Communication Support (Balance Remaining on Contract \$23,510)	2,718.50
23	Lincoln Life	Deferred Compensation PPE 2/15/21	8,271.92
24	Marin Sanitary Service	Document Shredding (3 Carts)	160.00
25	Millsap Degnan & Assoc	Refund Security Deposit on Hydrant Meter Less Final Bill	748.58
26	Nationwide Retirement Solution	Deferred Compensation PPE 2/15/21	920.00
27		Vision Reimbursement	173.97
28	O'Reilly Auto Parts	Automotive Cleaning Supplies	162.55
29	Pace Supply	Hex Pipe Wrench (\$178), Bolts for Fire Services (16) (\$387) & Tracer Wire (1,000') (\$319)	884.26
30	Pacific Gold Marketing	Refund Security Deposit on Hydrant Meter Less Final Bill	396.86
31	Parkinson Accounting Systems	January Accounting Software Support	1,023.75

Seq	Payable To	For	Amount
32	Piazza Construction	Prog Pymt#8: PRE Tank 4A Replacement Project (Balance Remaining on Contract \$169,825)	91,572.60
33	Piazza Construction Escrow Acct	5% Retainer: Piazza Construction PRE Tank #4A Replacement	4,819.61
34	Point Reyes Prop Mgmt Assn	February HOA Fees (25 Giacomini Rd)	75.05
35	Redwing Shoes	Safety Boots (Lemos)	200.00
36	Save The Bay	Refund Security Deposit on Hydrant Meter Less Final Bill	523.00
37	Scott Technology Group	Monthly Maintenance on Engineering Copier (2/21-3/20/21) (\$183) & Contract Overage	185.00
38	Skewes-Cox, Amy	Prog Pymt#9: Old Ranch Road Tank No. 2 Consultation (Balance Remaining on Contract \$696)	240.00
39	Soiland	Asphalt Recycling (86 tons)	1,600.73
40	Sonoma County Water Agency	January Contract Water	480,875.57
41	SPG Solar	January Energy Delivered Under Solar Services Agreement	7,051.45
42	SRT Consultants	Prog Pymt#15: Consulting Services to Complete Stafford Lake Sanitary Survey (Balance Remaining on Contract \$6,086)	260.00
43	Telstar Instruments	Flow Meter Calibration (STP)	2,540.00
44	Township Building Services	January Janitorial Services	2,035.48
45	USA BlueBook	Hand Sanitizer (15-13 oz Bottles)	170.41
46	VWR International	Lauryl Tryptose Broth (2) (Lab)	176.51
47	HD-Supply - White Cap	Visqueen (40' x 100') (2)	483.43

Seq	Payable To	For	Amount
48	Winzer	Miscellaneous Hardware for Auto Shop	338.09
		<b>TOTAL DISBURSEMENTS</b>	<b><u>\$1,257,004.98</u></b>

The foregoing payroll and accounts payable vouchers totaling \$1,257,004.98 are hereby approved and authorized for payment.

Julie Blue 2/23/2021  
Auditor-Controller Date

*acting* [Signature] 2/23/2021  
General Manager Date

North Marin Water District  
Hydrant Meters  
As of February 26, 2021

**SET HYDRANT METERS**

Customer	Location	Use/Reason	Issue Date	Area
Bill Pardini	4th and B Street Pt Reyes	Construction Water	05/03/17	WM
Sundt Construction	516 E Hospital Dr & Hamilton Park	Construction Water	08/06/19	Novato
Ryder Homes	Misty Rd. @ lot #7	Construction Water	10/01/19	Novato
Robert Taft Construction	299 Marin Valley Dr	Construction Water	02/14/20	Novato
Ghilotti Bros	Silveira Ranch Rd (off hwy101 @ dump)	Crushing operations	03/03/20	Novato
Piazza Construction	PRE tank Drakes View	Dust Control	05/06/20	WM
Kevin Heselton	465 Gage Ln	Dust Control	06/24/20	Novato
North Bay Land Co. Llc	Gross Field Helo Pad	Compaction & Dust	07/21/20	Novato
KDW Construction	Redwood Rd and Wood Hollow Dr	Truck Fill	08/06/20	Novato
West Coast Footings	3777 Vineyard Rd.	Stables Upkeep	09/02/20	Novato
Smith Denison Construction	7711 Redwood Blvd (Redwood/Wood Hollow)	Construction Water	12/14/20	Novato
KB Home North Bay	Redwood Dr & Pinheiro Rd	Connection to temp - RWF on site	02/04/21	Novato
KB Home North Bay	Construction area off Pinheiro Rd	Construction	02/10/21	Novato

**FLOATING HYDRANT METERS**

Customer	Location	Use/Reason	Issue Date	Area
WK Mclelland Co	Floating	Paving	03/29/06	Novato
Novato Sanitary District	Floating	Flush Sewer Lines	05/12/04	Novato
Novato Sanitary District	Floating	Flush Sewer Lines	05/05/06	Novato
Novato Sanitary District	Floating	Flush Sewer Lines	10/02/13	Novato
Novato Sanitary District	Floating	Flush Sewer Lines	10/02/13	Novato
County of Marin	Floating	Construction	03/05/12	Novato
Marin Sonoma Mosq	Floating	Mosquito Control	03/31/06	Novato
Blach Construction	Floating	Construction @ IVC	01/30/19	Novato



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# POINT REYES LIGHT

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## Bo to ration water

By Anna Guth  
02/10/2021

Water will likely be rationed for Bolinas residents starting March 1. The village has already halved overall water consumption since last summer through voluntary measures, but the utility district says scant rains threaten its ability to provide water through 2021 without further conservation measures.

Should the board of the Bolinas Community Public Utility District approve a resolution later this month, it will be the second time it has rationed water since it enacted a moratorium that limits the number of water hookups in the 1970s. The ration system will look the same as in 2009, though some board members have expressed concern that the approach—which will limit water by connection instead of by person—is inequitable.

Since July, the district has counted just 10.2 inches of rain, a third of the average rainfall for this time of year. Last year was also dry, with a total of 22.7 inches of rain compared to the average 32.5 inches. Similar lows are seen across West Marin, though no other district is facing rationing at this time.

“The current challenge that we have is a water supply problem, a lack of recharge with our water supply—it’s not currently a water use problem, with water use low right now, especially by historical standards,” Jennifer Blackman, BCPUD’s general manager, said at a community meeting last week.

Ms. Blackman said it is critical that overall use remain at least where it is today, and that the district could not risk the typical increase seen in the spring and summer.

The board will finalize the terms at its regular meeting on Feb. 17. Staff are recommending 125 gallons a day per connection, with exceptions for around 14 local businesses and public-serving entities. The cap will be enforced weekly rather than on a daily basis, allowing some flexibility in day-to-day use. Should households fail to comply, they could ultimately lose their water.

While the board mulled over the possibility of allowing residents who have greater water needs due to large households or multiple units to apply for exceptions now, staff recommended that residents first work with the district to see if meeting the limit is possible.

Bolinas’s water system is particularly vulnerable to low rainfall. It is primarily fed by Arroyo Hondo Creek, a perennial creek on the southern end of the Point Reyes National Seashore; two reservoirs fed by seasonal creeks have provided additional supply since the 1980s.

Currently, supply is meeting use: Customers are relying entirely on Arroyo Hondo, which is flowing at around 78,610 gallons a day. Demand is around 62,000 gallons a day, which breaks down to an average of 102 gallons per connection. The reservoirs are refilling after the district was forced to dip into them prematurely last summer.

Ms. Blackman told the board that two historic trends are guiding her recommendation for rationing: the fact that water use consistently goes up in the warmer months, and the observation that, in years with as little rainfall as this one, predicted supply cannot meet that seasonal demand.

In the past 70 years there have been 12 other years in which rainfall was as low as it is today. In those years, the average rainfall was 20.7 inches. If the district should receive that amount this year, and see the typical seasonal use increase this summer, creek flows and storage would become critically low and water quality exceedingly poor by early fall.

In the worst-case scenario, without a drop more of rain, BCPUD's supply would run dry by November if use stays where it is today—and much faster with a seasonal increase.

Limiting water to 125 gallons a day per connection will allow the district to make it through to the next rainy season, assuming the dry-year average is met. Rainfall and water use would continue to be monitored closely, and the rationing cap could change over time.

Rationing has been on the table for months. In June, the district issued a heightened water conservation alert and asked residents to help bring down the town's overall use by 20 to 30 percent. In October, the district made a voluntary request for no more than 150 gallons a day.

Today there are disparities in use. In January, 470 customers, the majority, used less than the recommended ration of 125 gallons. Other customers used more: 69 used more than 150 gallons a day, and 33 used more than 200 gallons. Ms. Blackman said that among residential properties, big users could be those with a large number of people, high-turnover short-term rentals, large gardens, or residents with intensive-use habits like long showers.

Rationing in 2009 was short-lived. The cap, set at 150 gallons with some commercial and public-serving exceptions, took effect at the end of January after only nine inches of rain had fallen.

"But then we had the February miracle, so to speak," Ms. Blackman said. "We were prepared and ready, but we essentially didn't wind up having to live through it because as soon as we started enforcing, it started raining." More than 10 inches fell that February, followed by three in March. The board lifted the ration in mid-March, and the subsequent rain year was much larger than average.

At a special meeting held on Monday night, four of the five board members agreed with the staff's recommendations. Don Smith expressed reservations: He has advocated that the district consider rationing on a per-person basis, a sentiment echoed by several residents.

"People have families or people living on their properties, which is a major source of affordable housing here," Mr. Smith said. "Furthermore, if someone is renting out units to people affordably and finds the [allotment] is not enough to go around, they may just say, 'Well, you can't live here anymore.' And that would be very unfortunate, too: Some of these people have jobs in town, they are volunteering for the town, they are a part of the community. We don't want to see any more people leave town than has already been the case for other reasons."

One resident said he already received an eviction notice from his landlord, who has 12 people living on the property. His landlord also spoke, saying he thought it was the more sensitive thing to do, considering he didn't know if the district would give him an exception to continue housing that many people. He already has a rainwater catchment system.

At the next BCPUD meeting, the board is expected to enact the rationing. Everyone who anticipates needing more than 125 gallons a day is encouraged to contact the district now so they can conduct a water audit and brainstorm conservation measures.

Other water managers on Marin's coast are also facing the effects of the second consecutive year of drought.

The Inverness Public Utility District declared a water shortage emergency in July. After proceeding into stage two of four, which restricted outdoor watering, the district rolled back to stage one once the rains began. As in Bolinas, customers are averaging around 100 gallons a day, and the system is relatively balanced and the storage tanks are staying full.



Inverness has also recorded 11.16 inches of rain since July 1, around half the 90-year average.

IPUD would have to move through all four stages of its declaration before considering rationing, said Wade Holland, the customer services manager. Recently, the Inverness Foundation proposed a parcel tax that would help the district increase its storage, though IPUD's board has not yet discussed the idea.

Mr. Holland is concerned about the future. "We are at a point of stability, getting enough each day to satisfy customer demand and have a reasonable amount of water in the system, but we are not getting a lot of excess, and that is ominous," he said. "If we don't get a lot more rain, and we are just meeting the status quo in February, things are only going to get drier."

North Marin Water District has also asked customers to voluntarily reduce consumption. Should it need additional flow, it has an agreement with Marin Municipal Water District to purchase additional water from Kent Lake. The board of M.M.W.D. will consider voluntary conservation measures later this month.

# Marin balances local look with housing density laws

## DEVELOPMENT BLUEPRINT

Officials preparing to unveil new set of design standards

### **Marin Independent Journal**

**By Richard Halstead**

[rhalstead@marinij.com](mailto:rhalstead@marinij.com)

A group of planning officials from across Marin are set to debut a set of design standards intended to preserve the look of the county while complying with state laws mandating denser housing.

Called “objective design standards,” the new blueprint for development is set to be unveiled later this month.

“The idea of ‘objective design standards’ is to clarify your standards and streamline a process for building multifamily housing that is acceptable to the community, or in keeping with the community context,” said Supervisor Stephanie Moulton-Peters, who helped create more subjective design guidelines in Mill Valley while serving on the City Council there.

Over the last several years, a raft of new state laws have stripped local jurisdictions of much of their discretion to review and approve residential housing projects.

At the same time, in response to California’s critical shortage of housing, the state is increasing dramatically the number of new housing units that Marin County and local cities and towns will be expected to create over the next eight years.

Under the current scheme, the state would assign Marin the task of creating 4,156 units affordable to individuals with very low incomes, 389 units for people with low incomes, 2,182 for people with moderate incomes and 5,653 units for people with above moderate incomes by 2030.

Under the new state laws, the last bastion of local control will be these objective design standards — defined in Senate Bill 35 as “standards that involve no personal or subjective judgment by a public official and are uniformly verifiable by reference to an external and uniform benchmark.”

Jurisdictions that adopt the standards will have at least some say in what these denser multi-family developments will look like. Anyone hoping that such standards will allow Marin to avoid denser housing, however, will likely be disappointed.

“You can’t use objective standards as a back-door downzoning or reduction in density,” said Matthew Lewis, a spokesman for California YIMBY. “Marin would get sued for that and they would lose.”



A 74-unit apartment complex is planned for this 1.1-acre lot in Marin City. The developer took advantage of state law SB 35 to win approval of the five-story project.

ALAN DEP — MARIN INDEPENDENT JOURNAL



A view from the site of the planned 74-unit apartment complex in Marin City.

SHERRY LAVARS — MARIN INDEPENDENT JOURNAL

One of the objectives of the new state laws is to streamline the time-consuming process of obtaining approvals and entitlements to build new housing, which adds significantly to the financial cost of projects.

“You avoid the shenanigans of people who don’t want a building at all objecting to the size of the windows,” Lewis said.

Examples of objective standards include height, setbacks, lot coverage, percentage of open space, density and parking requirements. Subjective discretionary standards would be issues such as “address unmet need for senior housing,” “produce high quality authentic design” and “reflect the look and feel of the community.”

A year ago, using \$1.14 million in state grant money, Marin County hired Opticos Design, a Berkeley based company, to create a set of objective design standards that could be used by all of Marin’s cities and towns, as well as the county. Since then, Opticos has been working with a group of Marin planners to create the standards.

Marin County planning manager Leelee Thomas said work on a final first draft of the standards is complete and will be released to the public later this month. The next step will be for each jurisdiction to decide whether it wants to adopt the standards into its building code or possibly modify them.

Rather than use the new standards as a bulwark against development of new multifamily housing, the intent is to use a standards template to identify the best sites for increasing density limits, preferably sites where previously approved building envelopes would accommodate additional units. “There is sort of a disconnect in a lot of Marin jurisdictions between the building envelope that is allowed on any given parcel and the zoned density or units per acre,” said Stefan Pellegrini, a principal and vice president at Opticos Design.

Pellegrini said the building envelopes — as determined primarily by required height and setback limits — tend to be larger than the zoned density.

“So, what the objective design standards have really tried to do in these places,” Pellegrini said, “is to bring those two standards into alignment.”

Once again, however, that can’t be achieved by reducing the zoned density.

“Due to state law, Senate Bill 330, those numbers can’t be reduced,” Pellegrini said.

What jurisdictions can do is increase the number of units per acre allowed on sites.

“There are many single- family parcels where it would probably make a lot of sense to fit four units,” Pellegrini said.

Senate Pro Tem Toni Atkins has introduced legislation, Senate Bill 9, that would require duplexes in single-family neighborhoods to be considered ministerially, without discretionary review or hearing, if the proposed development meets certain requirements.

Novato Councilwoman Pat Eklund said, “What we’re trying to do is create design specifications so that it is clear what the expectations are if an applicant uses state law to build a higher density project on a particular lot.”

Thomas said the standards also will be used in evaluating parcels that have been designated for housing development in the housing elements of local jurisdictions’ general plans. She said in order to comply with an increased mandate from the state to create housing, local jurisdictions may need to consider increasing the zoning on some of these parcels.

Pellegrini said most of the 800 sites that the group of planners has focused on are zoned for a maximum of 20 to 25 units per acre. Under state law, Marin jurisdictions are required to permit a minimum of 20 units per acre on any parcel they designate for future housing development in their housing elements.

Increasing the number of units per acre to maximize use of permitted building envelopes would doubtless increase the number of housing units in the county. It would do so without creating massive structures that would be out of character with existing neighborhoods.

But would such a strategy produce units affordable for people with low, very low or even moderate incomes?

In December, AMG & Associates LLC of Encino took advantage of SB 35 to win approval of a five-story, 74-apartment complex on a 1.1-acre lot in Marin City without review by the county’s Planning Commission or detailed review under the California Environmental Quality Act.

Even at this density, however, AMG has said it plans to apply to the state for tax exempt bonds and tax credits to cover most of the estimated \$40 million project cost.

“It’s never been the case that you would expect new construction to be affordable to very low-income people,” said Michael Manville, associate professor of Urban Planning at the UCLA Luskin School of Public Affairs.

Manville said there are basically two ways to create low and very low-income housing.

“One is with a lot of subsidy,” he said. “The other is to build housing and let it get very old.

“If the supply of housing increases, particularly if you upzone in places where the demand is high,” Manville said, “then just the overall increase in supply lowers prices across the board.”

He said upzoning alone won’t solve the housing crisis.

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# POINT REYES LIGHT

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## North Marin outlines new water rate increase

By Braden Cartwright  
02/17/2021

The North Marin Water District is proposing a rate increase for roughly 1,800 residents in West Marin to help pay for aging infrastructure and keep up with inflation. Bills will go up by an average of 6 percent, though a new rate structure will have individual customers pay closer to the actual cost of serving them. Depending on where you live, your bill could go down or up by as much as 14 percent. “We want to make sure the cost for customers is not unfair, and they’re not supplementing anyone else. It’s a shift to make it more equitable,” said Julie Blue, the district’s auditor and controller. A hydraulic zone surcharge will apply to Olema, Inverness Park, Paradise Ranch Estates and homes in Bear Valley, to pay for the cost of pumping water. The threshold for water usage reaching a higher payment tier will also be lowered, so heavy users will begin paying more after using 250 gallons a day, rather than 400. A bimonthly charge based on the maximum flow of a customer’s water meter will be raised, allowing the district to generate more of its revenue from fixed costs and a small number of bulk users. For low users living near sea level, the bi-monthly bill will go from \$103 to \$104. For low users at a higher elevation, the bill will go from \$105 to \$119. Half of the proposed rate increase simply reflects the rising cost of doing business, while the rest will cover construction projects, which the water district projects will cost \$4.5 million over the next six years. The most expensive project is the replacement of a 25,000-gallon redwood tank in Paradise Ranch Estates with a 125,00-gallon concrete tank this year. The district is also boring a second well on the Gallagher Ranch, outside of the salty influence of Tomales Bay that has inundated the well on the Coast Guard property, leading to high levels of salt in the water. The district aims to finish the project by the winter, when the salinity intrusion is at its worst. Looking five years into the future, the district forecasts more replacements of pipes, tanks and pumps across its system. In 2030, the district plans to replace its water treatment plant on the Coast Guard property at a cost of \$4.8 million. The district’s system in West Marin includes 25 miles of pipeline, 13 tanks, seven pump stations, three wells and the water treatment plant for 783 customers. The new rate schedule will be presented at meetings on Feb. 23 and March 16, and on June 22 the board will vote to enact the new rates on Oct. 1. To participate, visit [nmwd.com](http://nmwd.com).

# Voluntary water cutback urged

MARIN MUNICIPAL

Mandatory measures are possible if area doesn't get sufficient rain

## **Marin Independent Journal**

By Will Houston

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The Marin Municipal Water District is calling on customers to voluntarily cut back on their water use for the first time since the 2013 drought in response to meager rainfall reminiscent of the notorious 1976-1977 drought.

"I have to say that looking at the forecast and how much rainfall we've had to date, we might actually be happy if we achieve the 1976-77 rainfall numbers at this point," Paul Sellier, the district's operations director, told the board of directors on Tuesday evening.

While the board did not set a specific conservation target on Tuesday, a 22% voluntary reduction similar to what customers achieved between 2014 and 2016 would make a "dramatic" impact on MMWD's water storage outlook, Sellier said. However, the district might need to consider other strategies, including mandatory conservation measures if dry weather continues into April.

Before then, the district is urging customers to refrain from washing their cars at home; replace faucets and showerheads with more efficient models; check for leaks; add compost and mulch to gardens; and adhere to the district's irrigation restrictions.

MMWD customers have cut back on their water use in general since the 2013 drought, using about 10% less in 2020 compared to 2013. As California's oldest municipal water district, MMWD serves about 191,000 residents in central and southern Marin, including San Rafael, Mill Valley, Corte Madera, Larkspur, Fairfax, Sausalito, Belvedere and Tiburon.

The district's seven reservoirs in the Mount Tamalpais watershed make up three-quarters of its water supply, with the other 25% being imported from Sonoma Water. As of the end of January, the reservoirs were at 68% of their average capacity by that time of year, with about 45,200 acre-feet of water. The district has historically had an average of 66,000 acre-feet by the end of January. This storage is similar to the levels seen in 1990 during the 1986-1992 drought, Sellier said. As of Monday, storage had dropped to 66% of average capacity.

Typically, the water district decides whether voluntary or mandatory conservation is needed by checking its reservoir storage as of April 1. If storage is below 50,000 acre-feet at that time, the district would call on customers to voluntarily reduce use by 10%. Storage levels below 40,000

acre-feet would trigger a 25% mandatory conservation rule, though Sellier said this has never been used before.

“We’ve always had some sort of miracle escape,” he told the board.

But it’s the Dec. 1 reservoir checkup that has MMWD staff worried and calling for voluntary conservation efforts early. If storage is below 30,000 acre-feet on Dec. 1, that would trigger a mandatory 50% conservation rule. Projections show this could happen if rainfall levels continue to be below 50% of average and if customers do not conserve more water.

As of Tuesday, the district recorded just under 17 inches of rain at Lake Lagunitas, just shy of 47% of the average rainfall it normally receives by this time of year. That’s tracking with rainfall levels during the 1976-1977 drought, when at one point the district was only 120 days away from running out of water after two years of low rainfall.

To avoid running out of water, an emergency pipeline was built across the Richmond- San Rafael Bridge to carry water over from the East Bay. It was used until 1982.

Much has changed since then, including the raising of the Kent Lake dam in 1982 to add more than 16,000 acre-feet of new storage, and the construction of the Soulagule Reservoir, the district’s third-largest basin, in 1979. Sonoma Water also increased its own reservoir storage by 381,000 acre-feet since that time, completing Lake Sonoma in 1984.

“We have far more storage than we did at that time so we aren’t really even close to that level of crisis and we hope not to be,” said Ben Horenstein, MMWD’s general manager.

While rainfall is essential, it’s the runoff into reservoirs that really counts, Sellier said. The 2020 calendar year was the second driest in 90 years for the district, with just more than 20 inches of rain falling at Lake Lagunitas. The past 12 months have been the fifth driest since the district began taking rainfall records 142 years ago. The intermittent rainfall Marin has seen so far this winter has not been enough to fully soak the parched ground.

“The way the rain has fallen has just simply not generated much in the way of runoff for the reservoirs,” Sellier said.

This runoff issue can be further illustrated by comparing the start of the 2013 drought with 2020. Even though 2020 had twice the amount of rainfall compared to 2013, the runoff in 2020 was only 67% of what flowed into reservoirs in 2013.

Any water conservation measures are expected to come at a cost to the district’s revenue. These costs would compound the economic hits from the coronavirus pandemic such as the surge in delinquent water bills and the district’s decision to delay planned rate and fee increases to April.

A 20% drop in water use translates to an estimated \$8 million in lost revenue, Horenstein said. The district also expects to pay another \$4.5 million for other drought actions, including its



decision to increase the amount of imported water it purchases from Sonoma, pumping water from rarely used reservoirs at Phoenix Lake and Soulajule and its public outreach efforts.

Any mandatory conservation rules would likely result in a “much deeper cut,” Horenstein said. “At that point, we would be thinking of, potentially, ways to address our financial picture through some sort of drought rate that we’ll be talking to the board between now and that point in time early or mid-April,” Horenstein said.

More information about water conservation rules and recommendations can be found at [marinwater.org/ water-conservation](http://marinwater.org/water-conservation).

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Thursday, 02/18/2021 Page .A01

# Overdue water bill payment plan set

## MARIN MUNICIPAL

District helps ratepayers facing financial hardships

### **Marin Independent Journal**

By Will Houston

[whouston@marinij.com](mailto:whouston@marinij.com)

The Marin Municipal Water District is giving ratepayers up to five years to pay overdue water bills in response to the financial hardships caused by the coronavirus pandemic.

The unanimous decision by the district board is a response to the near doubling of customers with delinquent accounts during the pandemic. About 7,500 customer accounts, or about 12% of the district total, were late on their water bills by more than 60 days as of the end of 2020. By comparison, about 3,990 customers were delinquent in December 2019.

The amount of owed money nearly tripled during that time frame, from \$700,000 in December 2019 to \$2.7 million a year later, according to the district. When taking into account customers who are only 30 days late on their bills, the amount owed increases to \$3.4 million.

Under the new program, customers with delinquent accounts will automatically be enrolled in a five-year, zero-interest repayment plan but can opt out at any time.

“I’d say we’re definitely leading the pack in terms of thinking about this and taking this sort of action,” Ben Horenstein, the district’s general manager, told the board on Tuesday in response to a question on whether other water agencies are taking similar steps.

Only customers with delinquent accounts before Dec. 31, 2021, will be enrolled in the extended repayment plan; thereafter, the district will revert back to its regular 12-month repayment period.

The district surveyed 1,850 residential customers who were late on their bills for more than 30 days to better understand why. About 69% of them said they didn’t know their bills were overdue. About half answered that they had forgotten to pay; didn’t pay on time because the district is no longer charging late fees for late bills; or didn’t pay because the state has barred utilities from shutting off water for delinquent customers.

Some board members questioned responses from customers who said they weren’t aware of their late bills.

“I can’t explain their response because it’s right there in black and white,” board director Larry Bragman said.

“I think there are some disingenuous responses here,” director Larry Russell said.

The district had stopped sending bill payment reminders to customers because of the state's ban on water shutoffs, but the amount of owed money is still included as part of the bimonthly bills. Horenstein said the utility plans to resume sending bill reminders.

Caitlin Lamberton, a University of Pennsylvania marketing professor who conducted the survey, said people in debt might also be experiencing the "ostrich effect."

"They don't look, they don't want to know," Lamberton told the board.

About 29% of survey respondents said they had experienced a minor economic shock such as having hours reduced or helping a family member. A quarter of respondents stated they had a major economic impact such as losing a job, having a major health issue or having to change jobs. Most respondents said paying their water bills was low on their list of priorities compared to other costs such as rent, according to the survey.

"People could live without their cellphones, sort of," Lamberton said. "They really can't live without their water, but they don't feel any risk that it's going to go away either."

The district ended water shutoffs for late bill payments in March, a few weeks before Gov. Gavin Newsom banned water shutoffs statewide during the pandemic.

In addition to the repayment plan, the district will waive certain fees for qualified customers whose income has been impacted by the pandemic. Under the program, the district will waive the capital maintenance fee, watershed management fee and the customer service charge for customers whose income is 80% or less of the federal low-income poverty level. For Marin, that's an annual income of \$78,080 for a single- person household and \$111,520 for a four-person household.

Customers with 5/8th inch water meters would save more than \$400 in a year from the waiver, according to Charles McBride, the district's chief finance officer.

The waiver will apply retroactively to all owed fees dating back to March, when the county's first stay at- home order was issued. Customers who qualify and had already paid these fees will be given a credit toward future bills through Dec. 31. The district estimates it will lose about \$560,000 in revenue this fiscal year from the waivers.

These are the latest actions taken by the water district since the start of the pandemic. The district, which serves about 191,000 residents in central and southern Marin, also voted to delay until April a 4% rate and fee hike set to take effect last July. The delay could cost the district as much as \$3 million that would have gone to repairing and replacing pipes, pumps, tanks and other equipment.

More information about Marin Water's coronavirus relief program can be found at [marinwater.org/ COVID19-Relief](http://marinwater.org/COVID19-Relief).

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**SUPPLEMENTAL  
INFORMATION  
PROVIDED AT  
MEETING**



North Marin Water District



## Gallagher Wells and Pipeline MND Addendum



March 2, 2020

## Project Background and Approach

- 2009 Initial Study and Mitigated Negative Declaration
- Key Project Elements Completed
- Gallagher Well No. 2:
  - Change in Location based on property owner discussion and hydrogeologic studies
- CEQA Addendum:
  - Can be used when only minor changes or additions are necessary
- Would project changes result in:
  - New or substantially increased impacts
  - Are conditions substantially changed
  - New information shows new or substantially more severe impacts



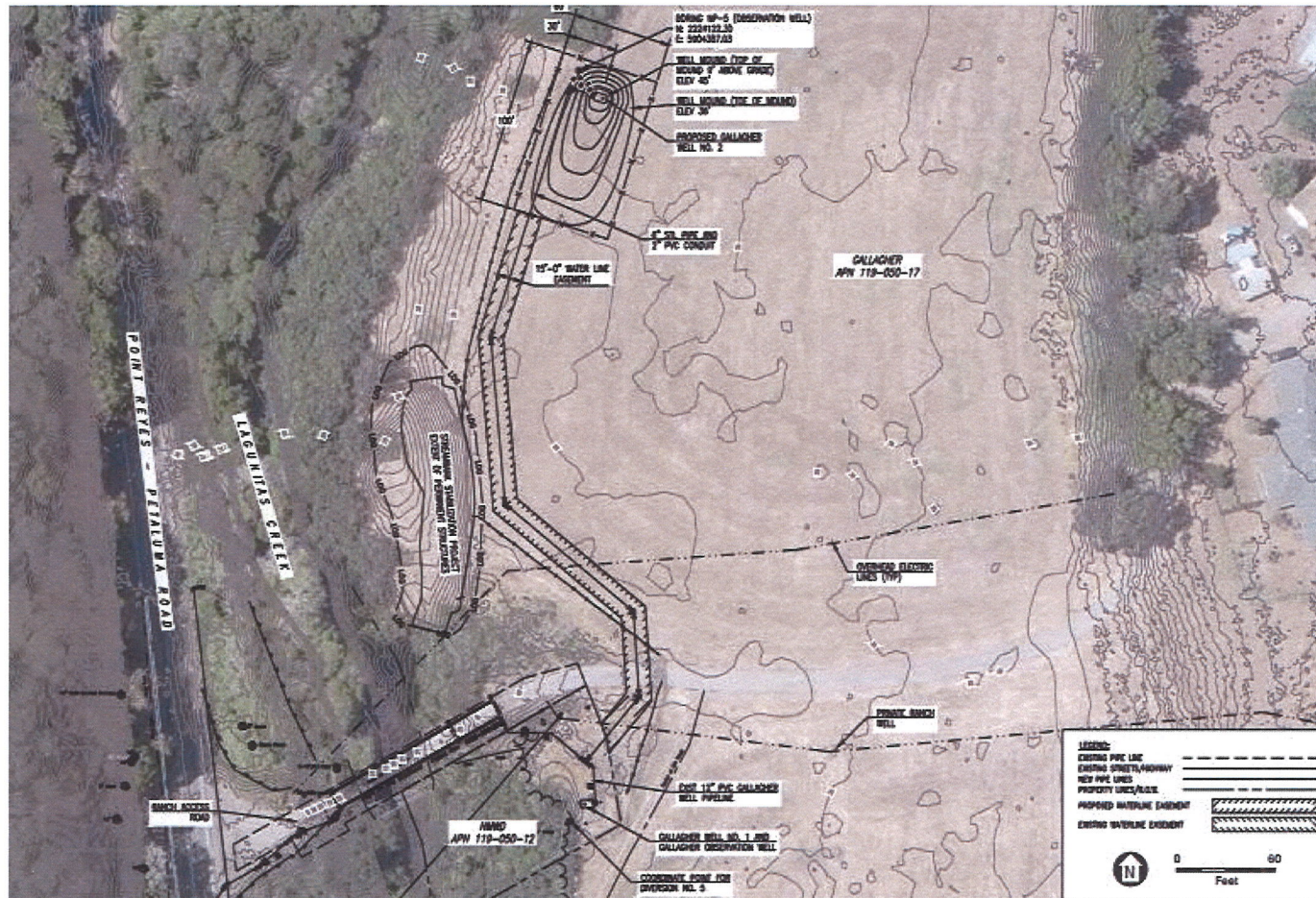
## 2009 MND Well No. 2: Proposed Location Area

- 2009 MND Gallagher Well Locations
- Well No. 2 Anticipated in South Pasture
- Location revised to North of Access Road





# Addendum: Revised Gallagher Well No. 2 Location





## Key Issue Areas Reviewed/Updated

- Biological Resources
  - Listed species
  - Secondary effects to fisheries habitat
- Water Resources
  - Pump test relative to stream flow
- Additional CEQA Checklist Items
- Update of Mitigation Measures
- Conclusion: No New or Substantially More Severe Impacts

## CEQA Addendum Process

- Circulation to Regulatory Agencies and Interested Parties
  - 30 day courtesy review period; not required under CEQA
  - Provides project update and opportunity for input
- Two Comment Letters Received
  - Save Our Seashores
  - RWQCB
- Key Comments:
  - Analysis did not review cumulative well operations or effects were masked by MMWD releases
  - Conditions under which project being implemented have changed
  - Potential impacts to salmonid habitat not analyzed
  - Mitigation Measure BR-2 may not be adequate based on flow data

## Technical Memorandum Responses

- Current iteration of project would not result in more severe impacts than those disclosed in 2009 MND
- Project consistent with 2009 MND
  - Wells optimized to meet water supply and water quality
    - Operational scenarios will continue to be based on annual and seasonal conditions
- Well pumping test adequately characterizes potential effects
  - All 3 Gallagher wells operating during pump test
  - Test conducted during dry year resulting in low flow conditions in Lagunitas Creek

## Technical Memorandum Responses

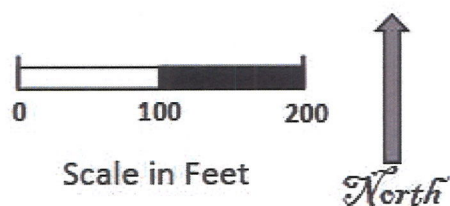
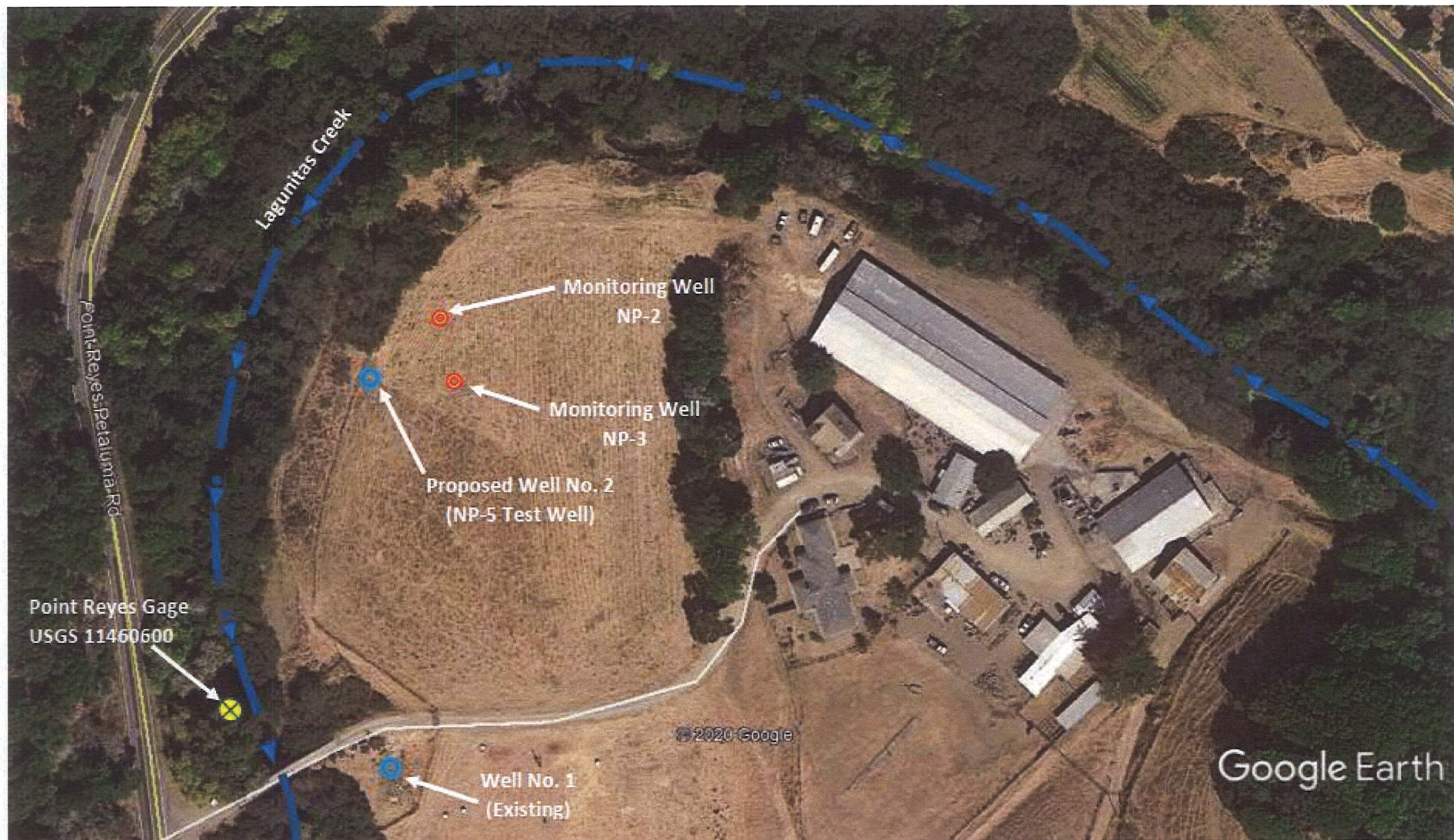
- Effects observed at USGS gage are de minimis
  - 0.3 cfs, or approximately  $\frac{1}{4}$  inch change in water surface elevation
- Additional discussion of potential effects of this level of change to salmonid habitat provided
  - Mitigation Measure BR-2 Modified to Include pre- and post confirmation monitoring to ensure no effects attributable to well operations

## Board Consideration

- Adoption of Resolution making Findings and Approving the Project
- Addendum meets requirements of CEQA:
  - No new or substantially more severe impacts identified
- NMWD continuing to work with Marin County regarding LCP approval

# Additional Slides





**FIGURE 1**

**North Marin Water District  
Gallagher Ranch  
Well Site**

**14500 Point Reyes – Petaluma Road**





Figure 1

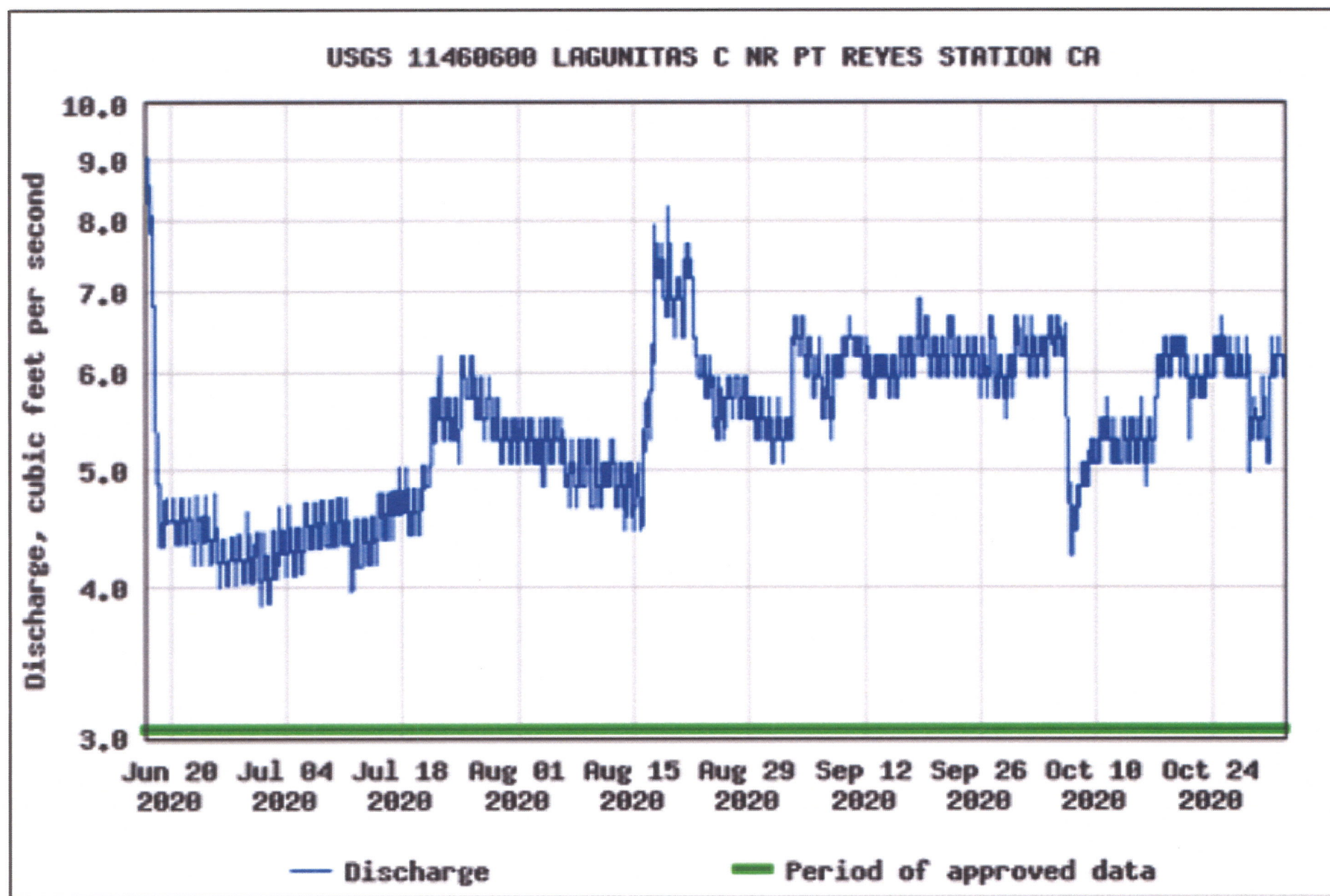




Figure 2

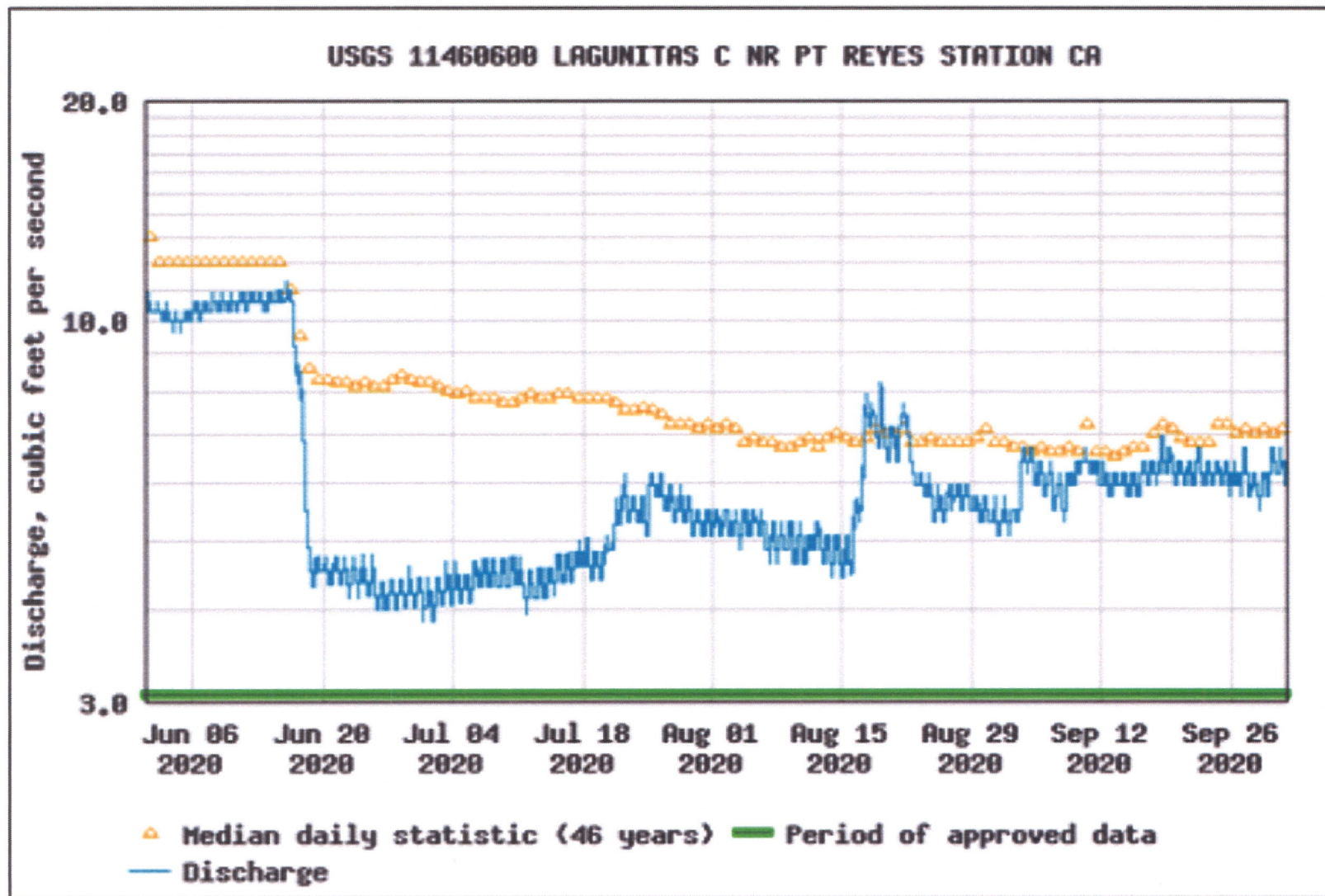


Figure 3

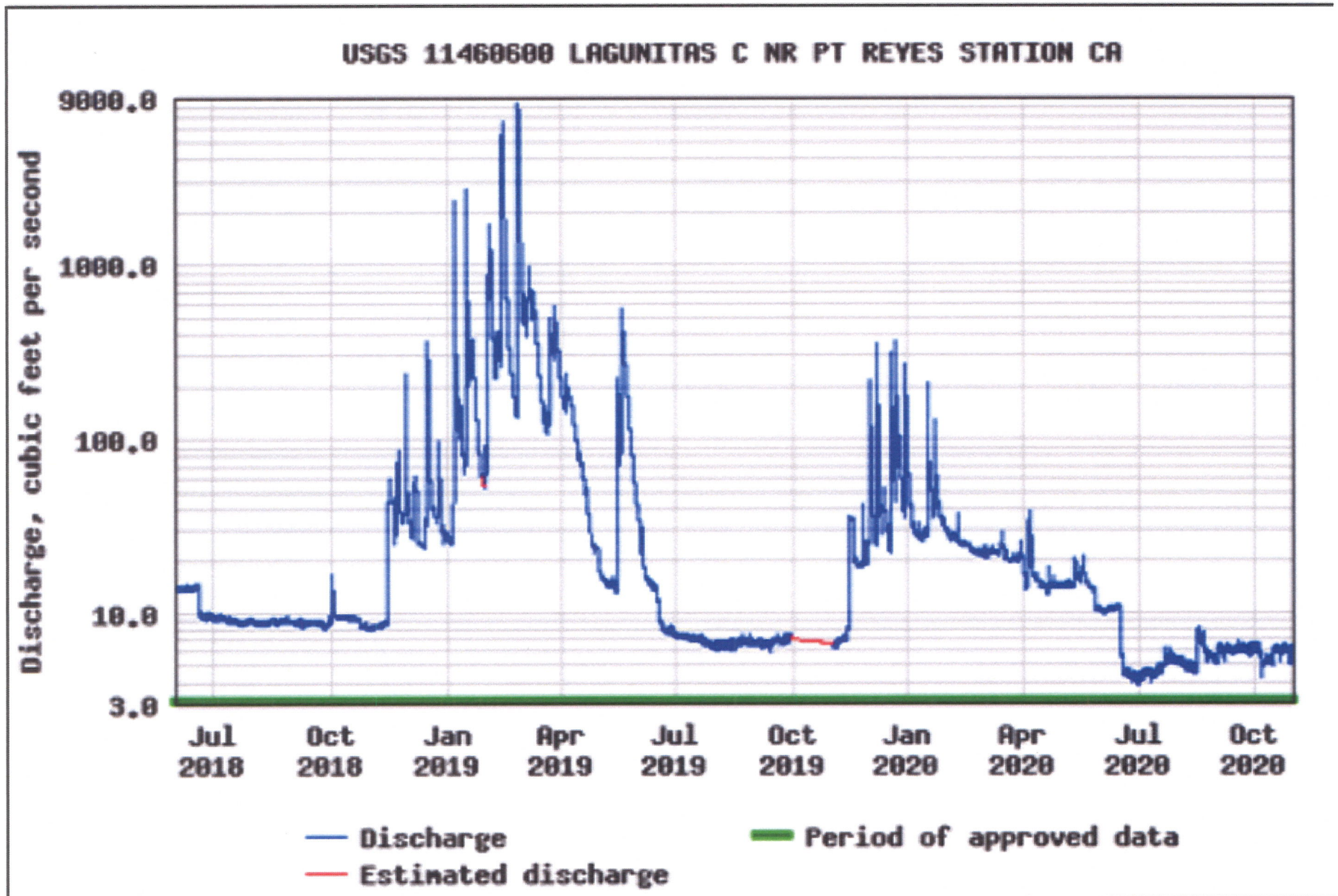
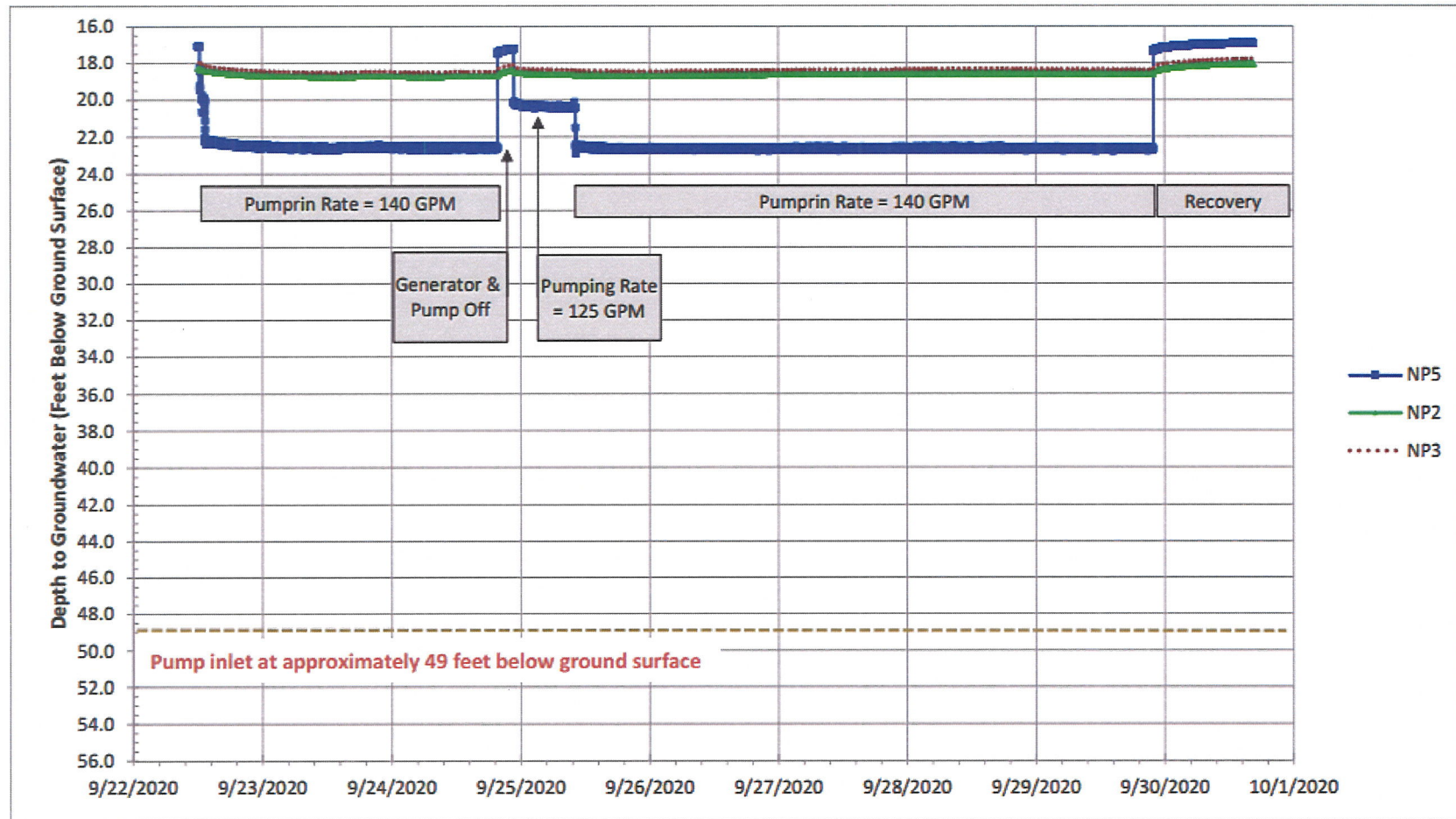




Figure 2



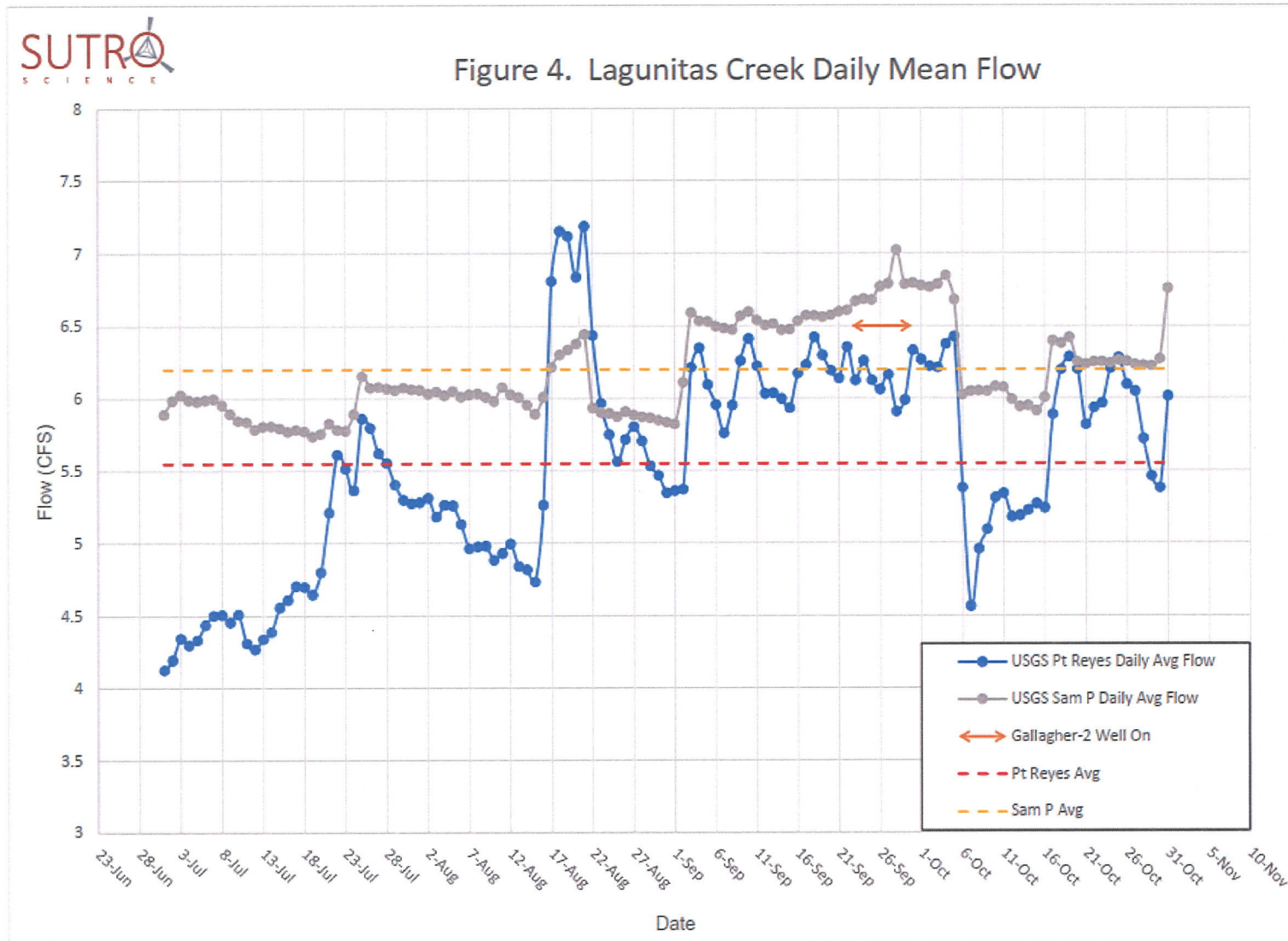
**PES Environmental, Inc.**  
Engineering & Environmental Services

**Hydrographs for 7-Day Constant Rate and Recovery Tests**  
Test Well NP-5 and Monitoring Wells NP-2 and NP-3

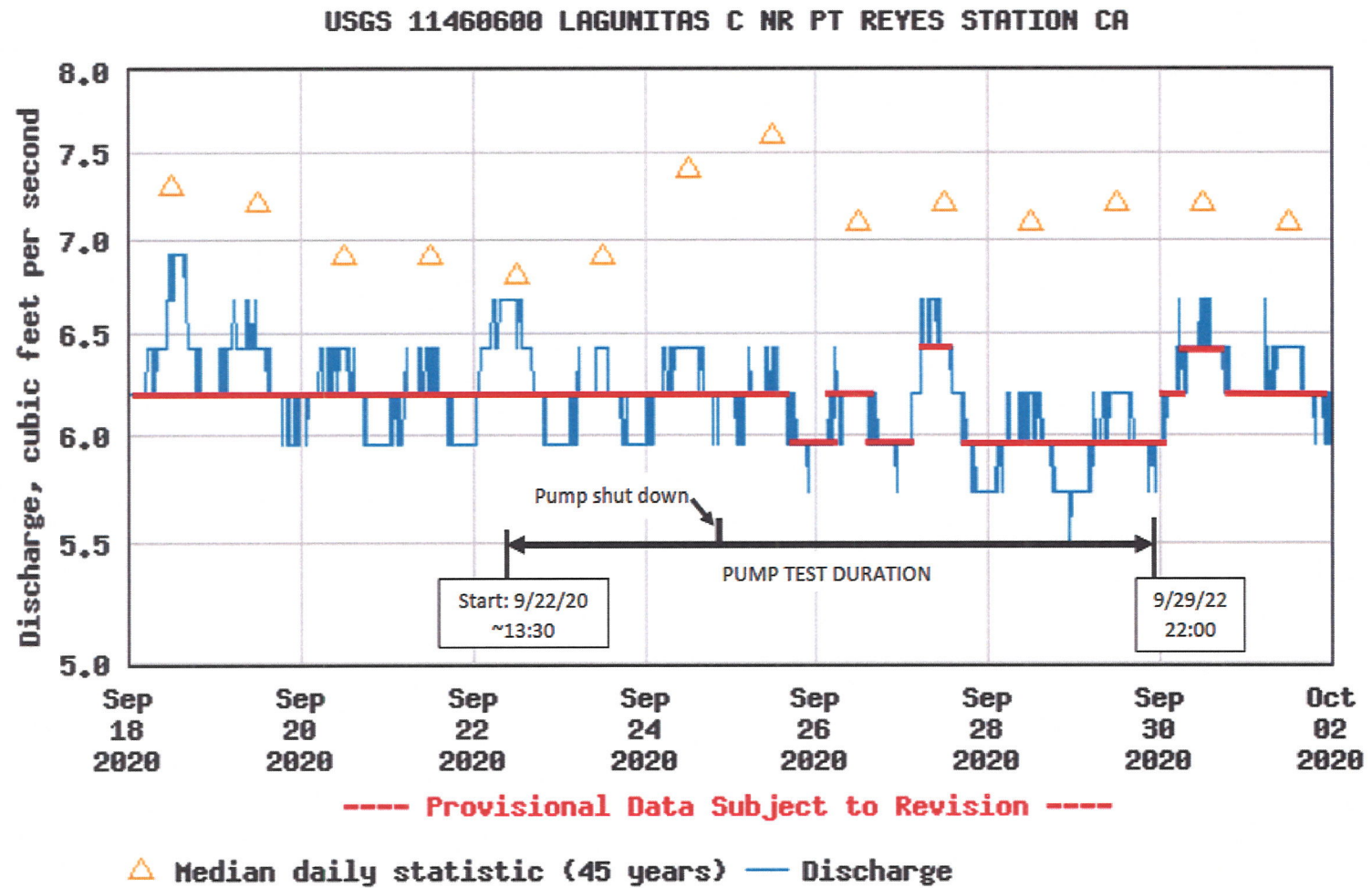
PLATE  
**6**



**Figure 3**

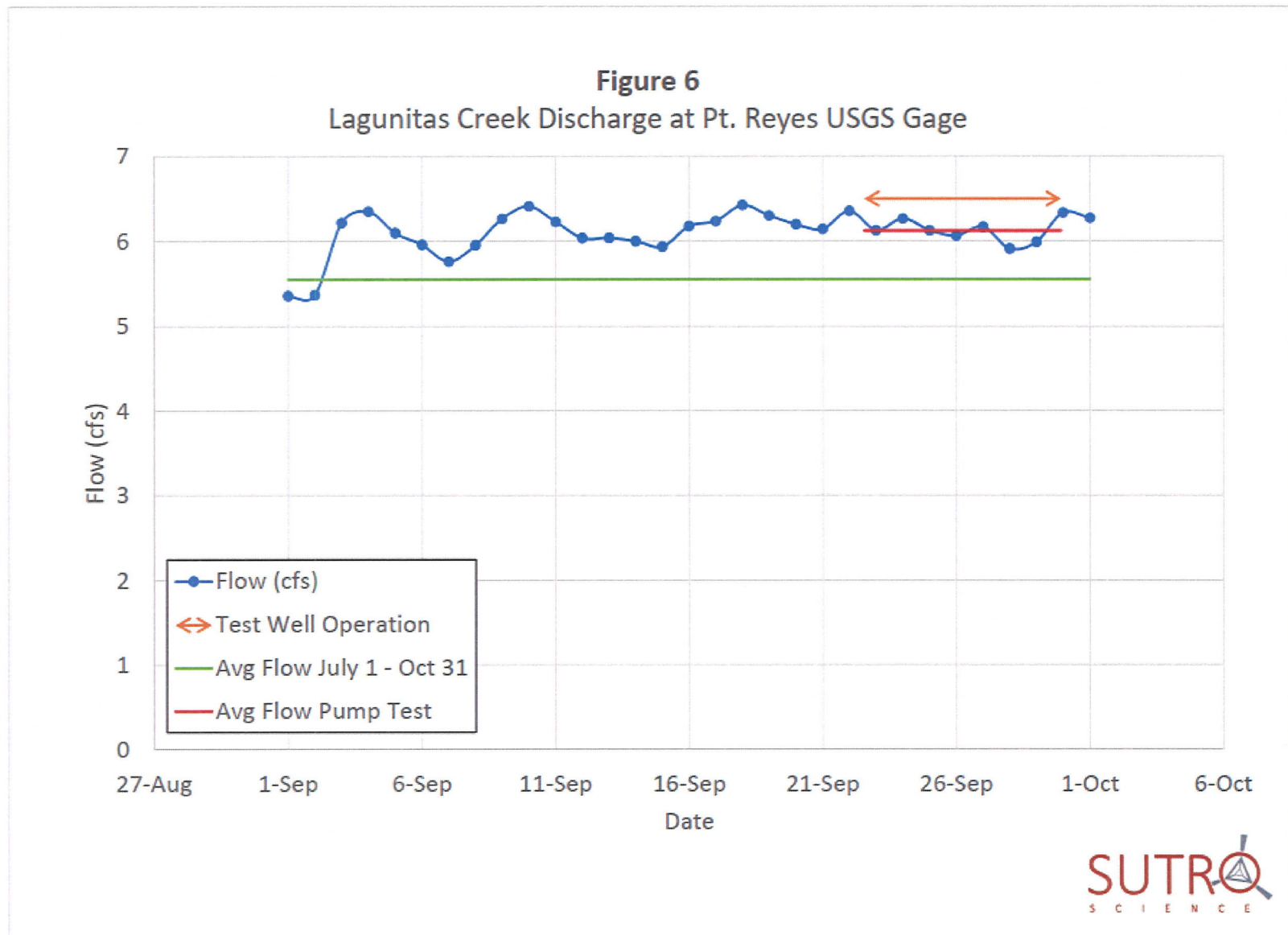


**Figure 5**



Source: [https://waterdata.usgs.gov/nwis/uv?cb\\_00060=on&cb\\_00065=on&format=gif\\_stats&site\\_no=11460600](https://waterdata.usgs.gov/nwis/uv?cb_00060=on&cb_00065=on&format=gif_stats&site_no=11460600)





## Figure 7 – Gage Height

USGS 11460600 LAGUNITAS C NR PT REYES STATION CA

