



**NORTH MARIN WATER DISTRICT**  
**AGENDA - REGULAR MEETING**  
 March 15, 2016 – 7:00 p.m.  
 District Headquarters  
 999 Rush Creek Place  
 Novato, California

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<b>Est. Time</b>	<b>Item</b>	<b>Subject</b>
7:00 p.m.	<b>CALL TO ORDER</b>	
	1. <b>APPROVE MINUTES FROM REGULAR MEETING</b> , March 1, 2016	
	2. <b>GENERAL MANAGER'S REPORT</b>	
	3. <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.	
	4. <b>STAFF/DIRECTORS REPORTS</b>	
	5. <b>MONTHLY PROGRESS REPORT</b>	
	<b>ACTION CALENDAR</b>	
	6. <b>Approve:</b> Rate Increase Letter to Novato Customers	
	7. <b>Approve:</b> Water Services Agreement - Valley Memorial Park Office Expansion	
	<b>INFORMATION ITEMS</b>	
	8. Marin BayWAVE Adaptation Vulnerability Evaluation	
	9. Russian River Biological Opinion Public Policy Facilitating Committee	
	10. Technical Advisory Committee Meeting – March 7, 2016	
	11. <b>MISCELLANEOUS</b>	
	Disbursements	
	25 Giacomini Renter	
	GFOA Certificate of Achievement for Excellence in Financial Reporting	
	<u>News Articles:</u>	
	Southern California water giant agrees to buy delta island	
	Marin slips below monthly goal for saving water, but on track overall savings	
8:00 p.m.	12. <b>ADJOURNMENT</b>	

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)

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DRAFT  
NORTH MARIN WATER DISTRICT  
MINUTES OF REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
March 1, 2016

**CALL TO ORDER**

President Schoonover called the regular meeting of the Board of Directors of North Marin Water District to order at 7:00 p.m. at the District headquarters and the agenda was accepted as presented. Present were Directors Jack Baker, Rick Fraites, Stephen Petterle, Dennis Rodoni and John Schoonover. Also present were General Manager Chris DeGabriele, District Secretary Katie Young, Auditor-Controller David Bentley and Chief Engineer Drew McIntyre.

George Estes, Valley Memorial Cemetery, Ken Sinclair Carollo Engineers, Novato Resident, Mike Jolly, and District employees Pablo Ramudo (Water Quality Supervisor), Robert Clark (Operations/Maintenance Superintendent) and Tony Arendell (Construction/Maintenance Superintendent) were in the audience.

**MINUTES**

On motion of Director Fraites, seconded by Director Petterle the Board approved the minutes from the previous meeting as presented by the following vote:

AYES: Director Fraites, Petterle, Rodoni and Schoonover

NOES: None

ABSTAIN: Director Baker

**GENERAL MANAGER'S REPORT**

**Sonoma Marin Saving Water Partnership**

Mr. DeGabriele informed the Board that he attended the Sonoma Marin Saving Water Partnership meeting on February 17<sup>th</sup> and discussed the "Take it from the Tap" outreach campaign to promote drinking tap water as opposed to bottled water. He stated that it will kick off in Santa Rosa on March 15<sup>th</sup> and run for three months. He advised the Board that staff is considering adding a banner facing the highway on the District's storage shed in the Corporation Yard (Marin County's only billboard).

**Meeting with SCWA**

Mr. DeGabriele advised the Board that he met with SCWA, City of Santa Rosa and respective attorneys discussing SCWA's plan to withdraw its application and change petition for additional Russian River water rights. He advised the Board that he volunteered to draft a letter of

1 assurances to be signed by SCWA identifying that the Restructured Agreement entitlements are still  
2 valid, Lake Sonoma stored water will be available for future re-diversion and that SCWA will petition  
3 the State Water Resources Control Board in the future for said re-diversion to meet entitlements  
4 when needed. He noted that the City of Santa Rosa is reviewing the letter now.

5 Mr. DeGabriele stated that SCWA needs to perfect the Environmental Impact Report and  
6 water right changes for the RRIFR project (reduced instream flows to meet Biological Opinion  
7 requirements and new hydrologic index). He informed the Board that it's their belief that having the  
8 application and petition outstanding for additional water rights complicates the proceeding to perfect  
9 the EIR and water right changes before the SWRCB, especially since an amount greater than  
10 75,000AF now authorized is not anticipated until sometime after 2035.

#### 11 TAC Meeting

12 Mr. DeGabriele informed the Board that at the TAC meeting next Monday topics include:  
13 Conservation Standard Tracking, "Take it from the TAP" outreach, current water supply conditions  
14 and the draft SCWA budget for FY2016/17.

#### 15 OPEN TIME

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

#### 18 STAFF / DIRECTORS' REPORTS

19 President Schoonover asked if staff or Directors wished to bring up an item not on the  
20 agenda and the following items were discussed:

21 Mr. McIntyre introduced George Estes, General Manager of Valley Memorial Park Cemetery,  
22 who desires to speak on consent item #5. On motion of Director Petterle, seconded by Director  
23 Fraites, the Board moved consent item #5 to an action item by the following vote:

24 AYES: Director Baker, Fraites, Petterle, Rodoni and Schoonover

25 NOES: None

26 Mrs. Young reminded the Board that FPPC Form 700 is due to be submitted by April 1<sup>st</sup>.



1    **CONSENT CALENDAR**

2           On the motion of Director Baker, seconded by Director Rodoni the Board approved item #7,  
3   Accept Asset Appraisal Report, by the following vote:

4           AYES: Director Baker, Fraites, Petterle, Rodoni and Schoonover

5           NOES: None

6    **WATER SERVICE AGREEMENT – VALLEY MEMORIAL PARK OFFICE EXPANSION**

7           On motion of Director Petterle, seconded by Director Fraites, the Board moved this consent  
8   item #5 to an action item.

9           Mr. McIntyre explained the Water Service Agreement for the Valley Memorial Park Office  
10   Expansion. He stated that the existing office/chapel building space is 4,100 sq/ft and the expansion  
11   will bring the total facilities to 12,400 sq/ft. He stated that the proposed new Zone 1 water facilities  
12   include a new 6-inch fire service, 20 ft of 6-inch PVC pipe, and the replacement of an existing fire  
13   hydrant with a commercial fire hydrant. Mr. McIntyre advised that the existing facilities water use  
14   history for domestic uses only, have averaged 2 equivalent dwelling units (EDUs), for which an EDU  
15   is currently defined as 500 gal per day average day of the maximum month. He noted that the  
16   estimated new water demand for the expanded facilities is 3 EDUs, therefore fees for three facilities  
17   reserve charges are to be collected for the project.

18          Director Rodoni asked Mr. McIntyre to explain the relevancy and explanation of the  
19   previously purchased additional dwelling units. Mr. McIntyre explained the history of the Valley  
20   Memorial water service and recent use of recycled water for landscape irrigation. He proceeded to  
21   introduce Mr. George Estes.

22          George Estes thanked the Board for the opportunity to use recycled water at the cemetery  
23   advising that it has made a big and positive difference in turf appearance especially during the  
24   drought periods. He agreed that the new building contemplated in the Water Service Agreement  
25   under consideration tonight is much larger than existing facilities, but opined that he does not see  
26   potable water use increasing since the cemetery will not be increasing staff nor the number of  
27   burials requiring use of the facilities each year. He suggested that the increase in fixture units is  
28   more reflective of current architectural standards than increased use and asked for consideration of  
29   this in calculating connection fees.

30          Mr. McIntyre advised the Board that, infrequently, when issues of this nature arise the Board  
31   has authorized a subsequent review of water use up to 2 years after connection to determine if the

1 connection fee collected were appropriate and enabled a refund if said use was less than  
2 calculated.

3 On motion of Director Petterle, seconded by Director Fraites, the Board moved that the item  
4 come back at the next meeting with a clause as described by Mr. McIntyre by the following vote:

5 AYES: Director Baker, Fraites, Petterle, Rodoni and Schoonover

6 NOES: None

7 **BOARD PLANNING WORKSHOP**

8 Director Baker requested that progress on Board Planning Workshop Actions regarding  
9 septic tanks and dairy manure management on Stafford Lake watershed be reviewed periodically  
10 starting this spring.

11 On motion of Director Baker, seconded by Director Fraites, the Board approved the Board  
12 Planning Workshop Summary dated February 9, 2016 by the following vote:

13 AYES: Director Baker, Fraites, Petterle, Rodoni and Schoonover

14 NOES: None

15 **ACCEPT ASSET APPRAISAL REPORT**

16 The District's insurance broker recommended that the District obtain a formal appraisal on its  
17 buildings, pump stations and water storage tanks to minimize negotiation with the insurance adjuster  
18 when a loss is incurred. The appraisal found that the District was underinsuring its assets by  
19 \$900,000 which will likely increase the FY16/17 annual insurance premium by approximately \$800.

20 The Board accepted the AssetWorks Appraisal Report and revise insured values for  
21 FY16/17 accordingly.

22 **INFORMATION ITEMS**

23 **AEEP (REACH A-D) – PROGRESS REPORT NO. 5 – FINAL (VALI COOPER & ASSOICATES)**

24 Ken Sinclair provided the final progress report from Vali Cooper & Associates on the  
25 Aqueduct Energy Efficiency Project construction, identifying all work which has gone on over the last  
26 six months, resulting in substantial completion of the project.

27 **WATER QUALITY MID-YEAR PROGRESS REPORT**

28 Pablo Ramudo, Water Quality Supervisor, provided the Board with the mid-year progress  
29 report. He advised that Total Organic Carbon concentration levels in Stafford Lake water were high  
30 in the 2nd quarter of the year but Total Organic Carbon removal at Stafford Treatment Plant was  
31 great and there were no taste and odor episodes. He informed the Board that manganese was

1 however above the secondary maximum contaminant level and limited flushing was undertaken  
2 when high flows in pipelines disturbed sediments deposited there. Mr. Ramudo advised the Board  
3 that staff plans to flush the entire Zone 1 system and some limited Zone 2 areas where sediments  
4 with manganese may have accumulated. He informed the Board that in West Marin disinfection by-  
5 products were way down resulting from use of the Gallagher well which has bromide concentrations  
6 much less than supply from the Coast Guard wells.

7 **TASTE AND ODOR STRATEGY FOR STAFFORD LAKE TREATMENT PLANT**

8 Mr. Ramudo reviewed the Stafford Lake Taste and Odor Control Strategy recently prepared  
9 by SRT Consultants. He advised that geosmin is the compound which causes taste and odor in  
10 Stafford Lake and nutrient loading is the trigger resulting in algae growth and resulting geosmin  
11 formation. He stated that nutrient amounts entering the Lake are down from historical levels but the  
12 decrease is only a fractional improvement. Mr. Ramudo informed the Board that the Study identifies  
13 three improvement areas: source control, including additional water quality monitoring for geosmin  
14 and work with the dairy on nutrient management to reduce manure application on the watershed;  
15 operation optimization including oxygen dispersal and increasing conventional aeration; and  
16 treatment improvements including improve mixing and GAC replacement strategy. He advised that  
17 timing and funding of improvements will be included in future budgets.

18 Director Fraites asked if chemicals at Indian Valley Golf Course (IVGC) were a concern. Mr.  
19 Ramudo replied that nutrients focused on dairy operations and chemical use at IVGC is limited. He  
20 stated that IVGC can fertilize and is prohibited from using pesticides which are deleterious to  
21 drinking water and that no IVGC improvements to filter runoff off the golf course have been  
22 undertaken.

23 Robert Clark advised that staff is proposing to negotiate an agreement with the dairy to  
24 reduce their herd, remove manure from the watershed and support the RCD project list for dairy  
25 improvements.

26 Director Rodoni opined that he wants no waste to be spread on the watershed and that staff  
27 should focus on the entire watershed including manure and septic waste.

28 Director Fraites asked that the dairy understand the nutrient loading problem and that other  
29 tools are available to the District to compel improvement.

30 Director Rodoni asked if a dredging program could improve the legacy nutrient removal at  
31 the lake bottom and Mr. Ramudo replied that it may be possible.

There was a lengthy discussion on what steps can be taken to eliminate manure application on the watershed and staff was directed to work with the dairy to find a way to apply no manure in future years.

**NBWRA MEETING UPDATE – JANUARY 25, 2016**

Mr. McIntyre provided the Board with the North Bay Water Reuse Authority (NBWRA) Meeting update for the January 25<sup>th</sup> meeting. He advised that NBWRA Phase 1 U.S. Bureau of Reclamation (USBR) Title XVI grant funding in the amount of \$4.8M should be available in late spring enabling NMWD to proceed with the Central Recycled Water expansion project. He noted that the grant funding will be allocated to the District, Novato Sanitary District, Las Gallinas Valley Sanitary District and Sonoma Valley County Sanitation District and is above the maximum threshold usually awarded but it's hoped that USBR will want to close out the Phase 1 program.

Mr. McIntyre also advised that the NBWRA day in Sacramento is scheduled on March 9<sup>th</sup> and Director Baker will be attending.

**NMWA MEETING – MARCH 4, 2016**

Director Baker will be attending the meeting on March 4th.

### MISCELLANEOUS

The Board received the following miscellaneous information: Disbursements, March 3, 2016 PPFC meeting, and Rate Increase Notice on Water Bill.

The Board received the following news articles: Marin special district pay tops \$108,000 study says, Marin Municipal wasteful water district, Dennis Rodoni says diverse experience drives his bid for Marin supervisor, 50 years ago – February 1966, and Dennis Rodoni joins supervisor race.

The Board also received the following news articles at the meeting: California Reservoirs are Dumping Water in a Drought, But Science Could Change that, Marin IJ Editorial: In-house staffing and competitive bidding rules, Marin assemblyman Levine's bill uses Australian approach to address drought, and Amid rain, Petaluma residents told to save water.

**ADJOURNMENT**

President Schoonover adjourned the meeting at 8:33 p.m.

Submitted by

Katie Young  
District Secretary

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**NORTH MARIN WATER DISTRICT**  
**MONTHLY PROGRESS REPORT FOR February 2016**  
 March 15, 2016

1.

**Novato Potable Water Prod - RR & STP Combined - in Million Gallons - FYTD**

Month	FY15/16	FY14/15	FY13/14	FY12/13	FY11/12	16 vs 15 %
July	252	319	385	389	371	-21%
August	274	301	360	396	373	-9%
September	213	276	332	346	347	-23%
October	243	221	313	283	249	10%
November	167	173	229	166	183	-3%
December	130	129	182	146	156	1%
January	55	137	168	151	178	-60%
February	66	121	119	148	147	-46%
<b>FYTD Total</b>	<b>1,401</b>	<b>1,677</b>	<b>2,087</b>	<b>2,026</b>	<b>2,004</b>	<b>-16%</b>

**West Marin Potable Water Production - in Million Gallons - FY to Date**

Month	FY15/16	FY14/15	FY13/14	FY12/13	FY11/12	16 vs 15 %
July	6.6	8.6	9.3	9.8	9.2	-23%
August	7.0	8.5	9.3	9.7	9.4	-18%
September	6.4	7.8	8.5	8.3	8.7	-18%
October	6.5	5.4	8.0	7.4	6.5	21%
November	4.7	4.6	6.8	5.2	5.1	4%
December	3.9	4.7	6.4	4.5	4.9	-16%
January	3.7	4.4	5.9	5.0	4.8	-16%
February	3.8	3.9	4.4	4.4	4.5	-4%
<b>FYTD Total</b>	<b>42.7</b>	<b>47.9</b>	<b>58.6</b>	<b>54.3</b>	<b>53.2</b>	<b>-11%</b>

**Stafford Treatment Plant Production - in Million Gallons - FY to Date**

Month	FY15/16	FY14/15	FY13/14	FY12/13	FY11/12	16 vs 15 %
July	108	83	98	49	115	30%
August	79	61	83	83	126	29%
September	38	26	56	72	77	46%
October	50	0	82	88	113	-
November	58	8	5	64	106	672%
December	0	0	2	0	49	-
January	0	0	0	21	0	-
February	0	24	0	57	0	-
<b>FYTD Total</b>	<b>333</b>	<b>202</b>	<b>326</b>	<b>433</b>	<b>586</b>	<b>65%</b>

**Recycled Water Production - in Million Gallons - FY to Date**

Month	FY15/16	FY14/15	FY13/14	FY12/13	FY11/12	16 vs 15 %
July	21.3	21.8	27.6	11.2	11.0	-2%
August	26.2	26.0	26.2	10.5	12.2	1%
September	15.7	19.2	18.6	8.5	9.6	-18%
October	15.8	9.4	15.8	0.0	0.0	69%
November	3.2	3.7	6.4	0.0	0.0	-14%
December	0.8	1.6	1.6	0.0	0.0	-51%
January	0.2	0.8	1.2	0.0	0.0	-76%
February	0.3	0.8	1.8	0.0	0.0	-61%
<b>FYTD Total*</b>	<b>83.5</b>	<b>83.2</b>	<b>99.1</b>	<b>30.2</b>	<b>32.8</b>	<b>0%</b>

\*Excludes potable water input into the RW system: FYTD16 = 7.4MG; FYTD15 = 6.9MG; FYTD14 = 8.7MG.

## 2. Stafford Lake Data

	February Average	February 2015	February 2016
Rainfall this month	5.1 Inches	2.8 Inches	0.9 Inches
Rainfall this FY to date	20.9 Inches	23.3 Inches	15.3 Inches
Lake elevation*	191.6 Feet	195.9 Feet	192.5 Feet
Lake storage**	1,084 MG	1,385 MG	1,148 MG

\* Spillway elevation is 196.0 feet

\*\* Lake storage less 390 MG = quantity available for delivery

### Temperature (in degrees)

	Minimum	Maximum	Average
February 2015 (Novato)	41	82	59
February 2016 (Novato)	42	88	60

## 3. Number of Services

February 29	Novato Water			Recycled Water			West Marin Water			Oceana Marin Swr		
	FY16	FY15	Incr %	FY16	FY15	Incr %	FY16	FY15	Incr %	FY16	FY15	Incr %
Total meters	20,761	20,747	0.1%	48	48	0.0%	785	821	-4.4%	-	-	-
Total meters active	20,524	20,492	0.2%	44	44	0.0%	778	777	0.1%	-	-	-
Active dwelling units	23,970	23,943	0.1%	0	0	-	825	823	0.2%	230	229	0.4%

## 4. Oceana Marin Monthly Status Report (February)

Description	February 2015	February 2016
Effluent Flow Volume (MG)	0.564	0.436
Irrigation Field Discharge (MG)	0.254	0.849
Treatment Pond Freeboard (ft)	3.6	4.9
Storage Pond Freeboard (ft)	4.4	5.0

## 5. Developer Projects Status Report (February)

Job No.	Project	% Complete	% This month
1.2768.00	OMA Village Water Facilities	98	1
1.2782.00	33 Commerical Blvd.	100	2
1.2783.00	Olive Ave. Chevron Car Wash	80	5

### District Projects Status Report - Const Dept (February)

Job No.	Project	% Complete	% This month
2.6602.23	PR Well No. 2 Replacement	92	1

## Employee Hours to Date, FY 15/16

As of Pay Period Ending February 29, 2016

Percent of Fiscal Year Passed = 66%

Developer Projects	Actual	Budget	% YTD Budget	District Projects	Actual	Budget	% YTD Budget
Construction	1,511	1,400	108	Construction	2,599	4,949	53
Engineering	576	1,480	39	Engineering	3,040	4,980	61

## 6. Safety/Liability

FY 16 through February  
FY 15 through February

Industrial Injury with Lost Time				Liability Claims Paid	
Lost Days	OH Cost of Lost Days (\$)	No. of Emp. Involved	No. of Incidents	Incurred (FYTD)	Paid (FYTD) (\$)
4	2,304	1	1	3	54,247
165	83,160	1	0	3	2,674

Days without a lost time accident through February 29, 2016= 35 days

## 7. Energy Cost

		February			Fiscal Year-to-Date thru February		
FYE		Kwh	¢/Kwh	Cost/Day	Kwh	¢/Kwh	Cost/Day
2016	Stafford TP	44,283	18.7¢	\$285	383,593	18.4¢	\$290
	Pumping	58,035	19.8¢	\$383	771,167	17.8¢	\$561
	Other*	35,887	19.3¢	\$231	310,950	22.7¢	\$291
		138,205	19.3¢	\$860	1,465,711	19.0¢	\$1,140
2015	Stafford TP	44,234	18.1¢	\$286	419,815	17.8¢	\$308
	Pumping	62,719	15.8¢	\$330	888,627	16.5¢	\$598
	Other*	36,151	18.3¢	\$220	318,774	21.2¢	\$275
		143,105	17.1¢	\$817	1,627,215	17.8¢	\$1,179
2014	Stafford TP	36,804	17.1¢	\$225	448,980	17.1¢	\$315
	Pumping	150,575	14.2¢	\$668	1,190,211	15.4¢	\$748
	Other*	37,771	16.9¢	\$199	356,120	19.8¢	\$287
		225,151	15.1¢	\$1,136	1,995,312	16.6¢	\$1,354

\*Other includes West Marin Facilities

## 8. Water Conservation Update

	Month of February 2016	Fiscal Year to Date	Program Total to Date
High Efficiency Toilet (HET) Rebate (\$100 each)	13	181	3,452
Retrofit Certificates Filed	16	145	5,462
Cash for Grass Rebates Paid Out	3	109	803
Washing Machine Rebates	6	74	6,673
Water Smart Home Survey	10	166	2,286

## 9. Utility Performance Metric

<u>SERVICE DISRUPTIONS</u>	February 2016 No. of Customers Impacted	February 2015 No. of Customers Impacted
PLANNED		
Duration Between 0.5 and 4 hours	19	12
Duration Between 4 and 12 hours		
Duration Greater than 12 hours	1	1
UNPLANNED		
Duration Between 0.5 and 4 hours	2	4
Duration Between 4 and 12 hours		
Duration Greater than 12 hours		

<u>SERVICE LINES REPLACED</u>	February 2016	February 2015
Polybutylene	12	5
Copper (Replaced or Repaired)	6	10

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders February 2016

3/8/2016

Type	Feb-16	Feb-15	Action Taken February 2016
<b><u>Consumers' System Problems</u></b>			
Service Line Leaks	12	11	Notified Consumer
Meter Leak Consumer's Side	0	2	~
House Plumbing	0	0	~
Noisy Plumbing	0	0	~
Seepage or Other	0	0	~
House Valve / Meter Off	6	1	Notified Consumer
Nothing Found	9	8	Notified Consumer
Low Pressure	0	0	~
High Pressure	0	0	~
Water Waster Complaints	0	0	~
<b>Total</b>	<b>27</b>	<b>22</b>	
<b><u>Service Repair Reports</u></b>			
Register Replacements	0	0	~
Meter Replacement	3	1	Notified Consumer
Meter Box Alignment	0	0	~
Meter Noise	0	0	~
Dual Service Noise	0	0	~
Box and Lids	2	0	Replaced
Water Off/On Due To Repairs	5	6	Notified Consumer
Misc. Field Investigation	0	0	~
<b>Total</b>	<b>10</b>	<b>7</b>	
<b><u>Leak NMWD Facilities</u></b>			
Main-Leak	0	0	~
Mains-Nothing Found	0	0	~
Mains-Damage	0	0	~
Service- Leak	18	12	Repaired
Services-Nothing Found	6	4	Notified Consumer
Service-Damaged	0	0	~
Fire Hydrant-Leak	0	1	~
Fire Hydrants-Nothing Found	1	0	Notified Consumer
Fire Hydrants-Damaged	0	0	~
Meter Replacement	0	0	~
Meters-Leak	0	0	~
Meters-Nothing Found	0	0	~
Meters Damaged	0	0	~
Washer Leaks	4	5	Replaced
<b>Total</b>	<b>29</b>	<b>22</b>	
<b><u>High Bill Complaints</u></b>			
Consumer Leaks	9	2	Notified Consumer
Meter Testing	0	0	~
Meter Misread	4	1	Notified Consumer
Nothing Found	12	5	Notified Consumer
Projected Consumption	0	0	~
Excessive Irrigation	0	0	~
<b>Total</b>	<b>25</b>	<b>8</b>	

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders February 2016

3/8/2016

Type	Feb-16	Feb-15	Action Taken February 2016
<b><u>Low Bill Reports</u></b>			
Meter Misread	0	0	~
Stuck Meter	0	0	~
Nothing Found	0	0	~
Projected Consumption	0	0	~
Minimum Charge Only	0	0	~
<b>Total</b>	<b>0</b>	<b>0</b>	
<b><u>Water Quality Complaints</u></b>			
Taste and Odor	3	1	<p><b><i>Customer reported bad tasting water. (Cielo Ln)</i></b> Taste may be due to slightly higher than usual chlorine residual. Customer was notified of results.</p> <p><b><i>Customer reported bad tasting water. (Dominic Dr)</i></b> Complaint was from hot water dispenser. The bad taste originates from the dispenser. Samples taken by lab, and customer was notified of results.</p> <p><b><i>Customer reported bad tasting water. (Knight Ct)</i></b> All lab test results normal &amp; typical for Novato water. Customer was notified of results.</p>
Color	4	1	<p><b><i>Property Manager reported brown water. (Grant Ave)</i></b> Colored water was due to exercise of nearby fire hydrant due to flushing. Customer was notified.</p> <p><b><i>Customer reported brown water. (Jennifer Ln)</i></b> Colored water was due to use of nearby fire hydrant by City or NSD. Flushed line until water was clear.</p> <p><b><i>Customer reported brown water. (State Route)</i></b> Colored water was due to use of nearby fire hydrant by unknown Entity.</p> <p><b><i>Customer reported rusty water in one bathroom. (Plum St)</i></b> Water entering home normal &amp; typical for Novato. Discolored water due to corrosion in master bathroom plumbing.</p>
Turbidity	0	0	~
Suspended Solids	0	0	~
Other	2	2	<p><b><i>Customer requested lead test. (Martin Dr)</i></b> Lead not detected. Customer was notified of results.</p> <p><b><i>Customer requested water tested for hardness and metals. (Dorothy Way)</i></b> Results were normal for NMWD supply. Customer was notified of results.</p>
<b>Total</b>	<b>9</b>	<b>4</b>	
<b><u>TOTAL FOR MONTH:</u></b>	<b><u>100</u></b>	<b><u>63</u></b>	<b><u>59%</u></b>

# NORTH MARIN WATER DISTRICT

## Summary of Complaints & Service Orders February 2016

3/8/2016

Type	Feb-16	Feb-15	Action Taken February 2016	
<b><u>Fiscal YTD Summary</u></b>				<b><u>Change Primarily Due To</u></b>
Consumer's System Problems	276	220	25%	Increase In Consumer Service Leaks
Service Repair Report	72	81	-11%	Decrease In Water On/Off For Repairs
Leak NMWD Facilities	178	243	-27%	Decrease In Service Line Leaks
High Bill Complaints	205	239	-14%	Decrease In Nothing Found
Low Bills	1	7	-86%	Decrease In Stuck Meter
Water Quality Complaints	32	26	23%	Increase In Discolored Water
Total	<u>764</u>	<u>816</u>	<u>-6%</u>	

### **"In House" Generated and Completed Work Orders**

<b><u>Check Meter:</u></b> possible consumer/District leak, high bill, flooded, need read, etc.	251	170
<b><u>Change Meter:</u></b> leaks, hard to read	2	4
<b><u>Possible Stuck Meter</u></b>	0	0
<b><u>Repair Meter:</u></b> registers, shut offs	0	0
<b><u>Replace Boxes/Lids</u></b>	3	1
<b><u>Hydrant Leaks</u></b>	0	0
<b><u>Trims</u></b>	7	9
<b><u>Dig Outs</u></b>	58	73
<b><u>Letters to Consumer:</u></b> meter obstruction, trims, bees, gate access, etc. get meter number, kill service, etc.	0	0
	<u>321</u>	<u>257</u>

### **Bill Adjustments Under Board Policy:**

#### **February 16 vs. February 15**

Feb-16	17	\$4,605
Feb-15	22	\$5,168

#### **Fiscal Year to Date vs. Prior FYTD**

15/16 FYTD	164	\$50,996
14/15 FYTD	176	\$78,242

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## MEMORANDUM

To: Board of Directors

March 11, 2016

From: David L. Bentley, Auditor-Controller

Subj: Auditor-Controller's Monthly Report of Investments for February 2016

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**RECOMMENDED ACTION:** Information

**FINANCIAL IMPACT:** None

At month end the District's Investment Portfolio had an amortized cost value (i.e., cash balance) of \$12,357,614 and a market value of \$12,354,411. During February the cash balance increased by \$845,550. The market value of securities held decreased \$3,204 during the month. The ratio of total cash to budgeted annual operating expense stood at 84%, up 6% from the prior month.

At February 29, 2016, 34% of the District's Portfolio was invested in California's Local Agency Investment Fund (LAIF), 34% in Time Certificate of Deposit, 16% in US Treasury Notes, and 8% in Federal Agency Securities. The weighted average maturity of the portfolio was 155 days, compared to 185 days at the end of January. The LAIF interest rate for the month was 0.47%, compared to 0.45% the previous month. The weighted average Portfolio rate was 0.62%, compared to 0.63% the previous month. Including interest paid by The Bay Club on the StoneTree Golf Recycled Water Facilities Loan, the District earned \$10,347 in interest revenue during February, with 49% earned by Novato Water, 40% earned by Recycled Water (by virtue of the StoneTree Golf Loan) and the balance distributed to the two West Marin districts.

**NORTH MARIN WATER DISTRICT  
AUDITOR-CONTROLLER'S MONTHLY REPORT OF INVESTMENTS  
February 29, 2016**

Type	Description	S&P Rating	Purchase Date	Maturity Date	Cost Basis <sup>1</sup>	2/29/2016 Market Value	Yield <sup>2</sup>	% of Portfolio
<b>LAIF</b>	State of CA Treasury	AA-	Various	Open	\$4,243,214	\$4,239,764	0.47% <sup>3</sup>	<b>34%</b>
<b>Time Certificate of Deposit</b>								
TCD	Key Bank	n/a	3/19/14	3/21/16	\$248,000	\$248,000	0.45%	2%
TCD	Barclays Bank	n/a	4/15/14	4/15/16	248,000	248,000	0.55%	2%
TCD	Americanwest Bank	n/a	5/30/14	5/31/16	249,000	249,000	0.50%	2%
TCD	Enerbank	n/a	6/30/14	6/30/16	249,000	249,000	0.65%	2%
TCD	Investors Bank	n/a	7/21/14	7/21/16	249,000	249,000	0.70%	2%
TCD	Comenity Capital Bank	n/a	8/18/14	8/18/16	249,000	249,000	0.80%	2%
TCD	Ally Bank	n/a	10/2/14	10/3/16	248,000	248,000	0.95%	2%
TCD	Cardinal Bank	n/a	11/12/14	11/14/16	249,000	249,000	0.80%	2%
TCD	Goldman Sachs	n/a	12/10/14	12/12/16	248,000	248,000	1.00%	2%
TCD	First Niagara Bank	n/a	4/30/15	5/1/17	249,000	249,000	0.75%	2%
TCD	Discover Bank	n/a	5/6/15	5/8/17	248,000	248,000	0.85%	2%
TCD	Capital One Bank	n/a	6/10/15	6/12/17	248,000	248,000	0.90%	2%
TCD	Flagship Cmnty Bank	n/a	6/24/15	6/24/17	249,000	249,000	0.75%	2%
TCD	American Express Bank	n/a	7/8/15	7/10/17	248,000	248,000	1.15%	2%
TCD	Capital One National Assoc	n/a	8/5/15	8/7/17	248,000	248,000	1.20%	2%
TCD	American Express Centurion	n/a	10/7/15	10/10/17	248,000	248,000	1.20%	2%
TCD	BMW Bank	n/a	12/14/15	12/11/17	248,000	248,000	1.20%	2%
					<b>\$4,223,000</b>	<b>\$4,223,000</b>	<b>0.69%</b>	<b>34%</b>
<b>US Treasury Notes</b>								
Treas	1,000 - 0.50%	n/a	3/26/14	6/15/16	\$999,851	\$1,000,273	0.55%	8%
Treas	1,000 - 1.00%	n/a	8/4/14	9/30/16	1,002,088	1,002,617	0.65%	8%
					<b>\$2,001,939</b>	<b>\$2,002,890</b>	<b>0.60%</b>	<b>16%</b>
<b>Federal Agency Securities</b>								
FFCB	1.70% MTN	n/a	9/15/14	10/28/16	\$503,399	\$503,047	0.68%	4%
FHLB	0.58% MTN	n/a	11/7/14	11/14/16	499,770	499,417	0.64%	4%
					<b>\$1,003,169</b>	<b>\$1,002,464</b>	<b>0.66%</b>	<b>8%</b>
<b>Other</b>								
Agency	Marin Co Treasury	AA+	Various	Open	\$683,008	\$683,008	0.32%	6%
Other	Various	n/a	Various	Open	203,284	203,285	0.50%	2%
<b>TOTAL IN PORTFOLIO</b>					<b>\$12,357,614</b>	<b>\$12,354,411</b>	<b>0.62%</b>	<b>100%</b>

Weighted Average Maturity = **155 Days**

LAIF: State of California Local Agency Investment Fund.

TCD: Time Certificate of Deposit, Treas: US Treasury Notes with maturity of 5 years or less.

FFCB: Federal Farm Credit Bank, FHLB: Federal Home Loan Bank

Agency: STP State Revolving Fund Loan Reserve.

Other: Comprised of 4 accounts used for operating purposes. US Bank Operating Account, US Bank STP SRF Loan Account, Bank of Marin AEEP Checking Account & NMWD Petty Cash Fund.

<sup>1</sup> Original cost less repayment of principal and amortization of premium or discount.

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

<sup>3</sup> Earnings are calculated daily - this represents the average yield for the month ending February 29, 2016.

<b>Interest Bearing Loans</b>	Loan Date	Maturity Date	Original Loan Amount	Principal Outstanding	Interest Rate
StoneTree Golf Loan	6/30/06	2/28/24	\$3,612,640	\$1,799,309	2.40%
Employee Housing Loans (5)	Various	Various	934,200	934,200	Contingent
<b>TOTAL INTEREST BEARING LOANS</b>			<b>\$4,546,840</b>	<b>\$2,733,509</b>	

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



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## MEMORANDUM

To: Board of Directors  
From: David L. Bentley, Auditor-Controller  
Subj: Rate Increase Letter to Novato Customers

March 11, 2016

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**RECOMMENDED ACTION:** Approve Letter to Customers**FINANCIAL IMPACT:** \$12,500 Expense

California law requires that customers be notified of a water rate increase at least 45 days prior to the public hearing where the Board considers adoption of said increase. A public hearing is scheduled for Tuesday, May 17, 2016 at 7:00 PM at the District office. The May 17 date requires that the letters be mailed by April 2, 2016. Postage, stationary and copying cost for the 18,500 active customers will be approximately \$12,500.

The proposed commodity rate increase for Novato customers is 7%. No increase is proposed for the bimonthly service charge component of the water bill. The combination of the commodity rate and bimonthly service charge is estimated to increase the cost of water for the typical Novato residential customer by 5% and increase District water revenue by 5%. In addition, enactment of the Temporary Drought Surcharge is proposed, which would increase District water revenue by another 4%.

The percentage increase for each customer will vary based upon their individual water use. The median single-family residential customer will see a \$2.85 per month increase (\$5.70 bimonthly) on their typical bill, plus an average of \$0.90 per month for the Drought Surcharge. The Rate-Increase Model on the District's website allows each customer to see the impact of the proposed increase & drought surcharge on their annual water cost based upon their water use over the past 12 months.

A draft of the proposed letter is attached for Board review and comment. Legal counsel has reviewed the letter to assure compliance with Prop 218.

**RECOMMENDATION:**

Approve mailing the rate increase letter to customers.

## **DRAFT**

April 1, 2016

### **Re: Notice of Proposed Water Rate Increase**

Dear Customer:

The North Marin Water District's mission is to provide an adequate supply of safe, reliable and high-quality water to our customers at reasonable cost consistent with good conservation practices and minimum environmental impact. To fulfill this mission, NMWD must generate revenue sufficient to cover its cost of operations.

Accordingly, the North Marin Water District is proposing an increase in the cost of water which averages 5% for the typical Novato customer, effective June 1 of 2016. In addition, implementation of a Temporary Drought Surcharge is proposed, adding \$1.00 per 1,000 gallons for all residential water use exceeding 300 gallons per day, and \$1.00 per 1,000 gallons for all non-residential water use.

This letter provides details on the need for the increase and information about the public hearing where public comment will be taken prior to a vote on the proposed water rate increase and Temporary Drought Surcharge by the District Board of Directors.

### **REASON FOR THE PROPOSED INCREASE**

**Higher Water Cost:** The Sonoma County Water Agency (SCWA), which provides 80% of Novato's water supply, is increasing the rate it charges NMWD for Russian River water by 6.6% effective July 1, 2016. In addition, the State mandated Emergency Water Conservation Regulation has reduced Novato water consumption by over 30%, compared to the 2013 base year, significantly reducing the water sales revenue used to operate and maintain the Novato water system.

**Water System Infrastructure Maintenance:** The Novato water system includes 326 miles of pipeline, 38 million gallons of finished water storage distributed across 33 tanks, 26 pump stations, 13 pressure regulating stations, over 2,600 fire hydrants and a multitude of valves, all of which require ongoing maintenance. The District is now 68 years old, and much of the pipeline installed in the early years is nearing the end of its useful life requiring future replacement.

## **RATE COMPARISON**

NMWD's rates remain reasonable. You can assess this for yourself by comparing NMWD's cost of water service to 16 counterpart Bay Area water agencies (see Urban Area Water Cost Comparison on page 5 of this letter). The comparison shows that the typical cost of service for a Novato single-family residence is just below the median of our counterpart agencies.

## **PROPOSED RATE INCREASE**

A table showing the existing rates and charges, and the amounts proposed, is included on page 4 of this letter.

**Residential Accounts:** It is proposed that a commodity rate increase of 7% for all water used be implemented effective June 1, 2016. No increase in the bimonthly service charge is proposed. For the typical Novato single-family residence, the proposed increase in the total cost of water (commodity charge plus bimonthly service charge) is 5%. The proposed increase would add \$2.85 per month (\$5.70 per bimonthly bill) to the cost of water for a typical single-family residence beginning June 2016.

**You can determine the increase in your annual water cost based on your personal water use over the past year from our website. Insert your NMWD account number and the name on your account into the Rate-Increase Model on NMWD's website at <http://www.nmwd.com/accountbalance.php>.**

**Non-Residential Accounts (Commercial, Institutional & Irrigation):** It is proposed that an increase in the commodity rate of 7% for all water used be implemented effective June 1, 2016. No increase in the bimonthly service charge is proposed. The increase for non-residential customers will vary based upon water use. In Novato the median non-residential account uses more water than the median residential account, but would still see an increase in the total cost of water (commodity charge plus bimonthly service charge) of 5%. You can determine the increase in your annual water cost based on your consumption over the past year from our website. See the boxed area above for instructions.

## **PROPOSED TEMPORARY DROUGHT SURCHARGE**

On June 1, 2015, California enacted an Emergency Water Conservation Regulation mandating reduced water use statewide. Novato was ordered to reduce consumption by 24%. Since June 1 Novato water use has fallen over 30%. The reduction in water consumption has significantly reduced the revenue required to operate and maintain the water system. In response, effective June 1, 2016, a temporary drought surcharge for each 1,000 gallons of potable water use is proposed as follows:

Residential Accounts: Use exceeding 300 gallons per day per dwelling unit..... \$1.00

Commercial, Institutional & Irrigation Accounts: All Use..... \$1.00

The Drought Surcharge would add \$0.90 per month (1.6%) on average to the typical residential water bill and \$9.00 per month (12%) on average to the typical non-residential water bill.

The State mandated Emergency Water Conservation Regulation is scheduled to remain in effect through October 31, 2016. Collection of the proposed Temporary Drought Surcharge will be suspended at the time the State Regulation is rescinded.

You can determine the impact of the proposed Temporary Drought Surcharge on your annual water cost based on your consumption over the past year from our website. See the boxed area above for instructions.

### **WATER RATE PUBLIC HEARING**

**A public hearing will be held at the NMWD office (999 Rush Creek Place, Novato) at 7:00 p.m. on Tuesday, May 17, 2016, to consider enactment of an increase averaging 5% effective June 1, 2016.**

### **HOW TO PARTICIPATE**

You are invited to present oral or written testimony on the proposal at the public hearing. You have the right to protest this proposed rate increase. If you do, you must submit your protest in writing, even if you plan to attend the public hearing. If written protests are submitted by a majority of the affected property owners or customers, the proposed increases will not be imposed.

Your written protest must be received prior to the close of the May 17, 2016 public hearing. Written protests must be signed by the property owner or customer of record and must include a description of the parcel (parcel number) or NMWD account number. Send or deliver written protests to:

District Secretary  
North Marin Water District  
PO Box 146  
Novato, CA 94948

For more information visit NMWD's website at [www.nmwd.com](http://www.nmwd.com) or call the District Secretary at (415) 897-4133.

Sincerely,

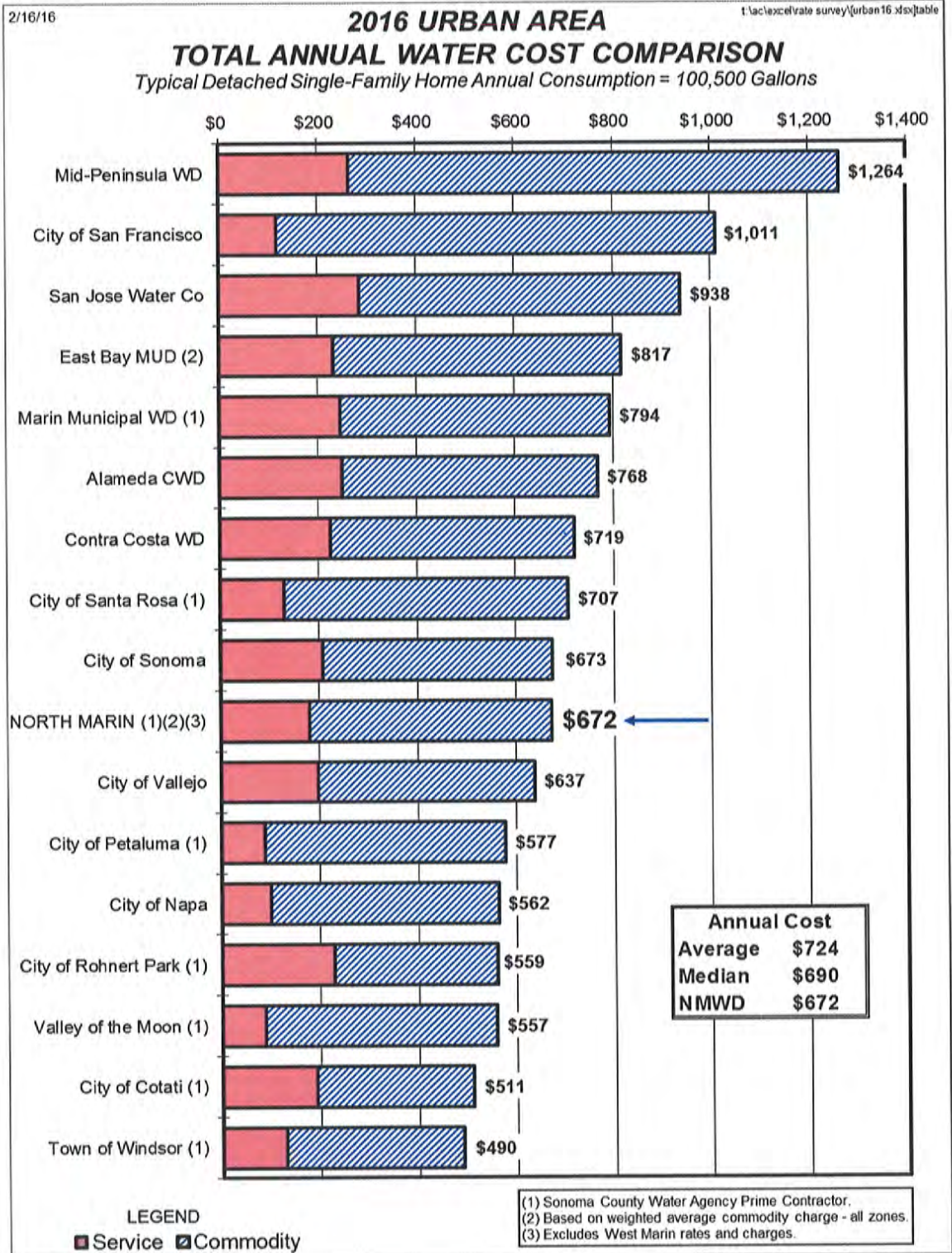


Chris DeGabriele  
General Manager

## NOVATO WATER CHARGES

	Existing 6/1/15	Proposed 6/1/16	% Increase
<b>A BI-MONTHLY SERVICE CHARGE OF:</b>			
STANDARD 5/8-INCH METER .....	\$30.00	\$30.00	0%
1 -inch residential meter for fire sprinklers .....	\$34.00	\$34.00	0%
1 -inch meter .....	\$60.00	\$60.00	0%
1.5 -inch meter .....	\$73.00	\$73.00	0%
2 -inch meter .....	\$114.00	\$114.00	0%
3 -inch meter .....	\$227.00	\$227.00	0%
4 -inch meter .....	\$364.00	\$364.00	0%
6 -inch meter .....	\$761.00	\$761.00	0%
8 -inch meter .....	\$1,134.00	\$1,134.00	0%
<b>PLUS A QUANTITY RATE OF:</b>			
<u>Residential rate for each 1,000 gallons</u>	<u>Rate</u>	<u>Rate</u>	
First 615 gallons per day .....	\$4.46	\$4.77	7%
616 - 1,845 gallons per day .....	\$7.11	\$7.61	7%
Use in excess of 1,845 gallons per day.....	\$12.38	\$13.25	7%
<u>Rate for each 1,000 gallons for all other potable water accounts</u>			
Commercial, institutional & irrigation accounts - 11/1-5/31.....	\$4.92	\$5.26	7%
Commercial, institutional & irrigation accounts - 6/1-10/31.....	\$5.28	\$5.65	7%
<u>Rate for each 1,000 gallons for non-potable water</u>			
Recycled Water .....	\$4.92	\$5.26	7%
Raw (Untreated) Water .....	\$2.03	\$2.17	7%
<b>PLUS AN ELEVATION ZONE RATE FOR EACH 1,000 GALLONS OF:</b>			
<u>Zone</u> <u>Elevation</u>	<u>Rate</u>	<u>Rate</u>	
A 0 through 60 feet.....	\$0.00	\$0.00	-
B 60 feet - 200 feet.....	\$0.53	\$0.57	7%
C 200 feet +.....	\$1.71	\$1.83	7%
<b>Hydrants or Temporary Service.....</b>	<b>\$6.99</b>	<b>\$7.48</b>	<b>7%</b>





7



## MEMORANDUM

To: Board of Directors  
From: Drew McIntyre, Chief Engineer   
Subject: Water Service Agreement – Valley Memorial Park Office Expansion  
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March 11, 2016

**RECOMMENDED ACTION: The Board approve authorization of this agreement.****FINANCIAL IMPACT: None: Developer Funded**

The Valley Memorial Park Expansion project is located at 650 Bugeia Ln, Novato (see vicinity map, attachment A). Existing office/chapel building space is 4100 sq ft. The expansion of facilities will bring the total facilities to 12,400 sq. ft. including chapel, office and crematorium uses, and 6,400 sq. ft. of maintenance and storage uses. Existing water meters will continue to be used for domestic and recycled water deliveries.

Proposed new zone 1 water facilities include a new 6-inch fire service, 20 ft of 6-inch PVC pipe, and the replacement of an existing fire hydrant with a commercial fire hydrant.

Service for this property was established in 1977 with a 1-inch meter and collection of 2 Facility Reserve Charges (FRC). In 1986, a new agreement was executed, a 2-inch meter was installed and 28 additional FRCs were collected. In 2012 an agreement was executed including the installation of a 2-inch recycled water meter and expansion of entitlement to 66 equivalent dwelling units (EDU). The existing facilities water use history for domestic uses only have averaged 2 EDU, as currently defined as 500 gal per day average day of the maximum month. No changes to the irrigation demands are anticipated with this project. The estimated potable water demand for the expanded facilities is 5 EDUs; the total new water demand is 3 EDUs. Therefore, fees for three FRCs will be collected by this project.

This water service agreement was on the Board's March 1<sup>st</sup> consent calendar for approval. However, the applicant requested that the District reconsider the unique conditions at Valley Memorial Park and reduce the required Facilities Reserve Charges (FRC). Pursuant to that request, the agreement has been revised to collect FRC payments for all EDU's now, yet allow two of the EDUs to be posted with cash or an irrevocable letter of credit at an approved financial institution in the Novato area. Following 3 years from occupancy approval the District will evaluate required FRCs based on the EDU calculation derived from actual peak bimonth water use at this service. FRCs not required for the two EDUs on deposit based on this review shall be returned to the applicant.

Sanitary sewer service will continue to be provided by Novato Sanitary District.

Environmental Document Review

This project has been determined to be exempt from the requirements of the California

Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15301 and 15304.

RECOMMENDATION:

That the Board approve authorization of this agreement.

PART ONE  
WATER SERVICE FACILITIES CONSTRUCTION AGREEMENT  
FOR  
VALLEY MEMORIAL PARK OFFICE EXPANSION

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*THIS AGREEMENT*, which consists of this Part One and Part Two, Standard Provisions, attached hereto and a part hereof, is made and entered into as of \_\_\_\_\_, 2016, by and between NORTH MARIN WATER DISTRICT, herein called "District," and VALLEY MEMORIAL PARK, INC., A California Corporation, herein called "Applicant."

*WHEREAS*, the Applicant, pursuant to District Regulation 1, the State of California Subdivision Map Act and all applicable ordinances of the City of Novato and/or the County of Marin, has pending before the City or County a conditionally approved Tentative Subdivision Map, Precise Development Plan, Tentative Parcel Map or other land use application for the real property in the District commonly known as Marin County Assessor's Parcel Number 143-151-15 and the project known as VALLEY MEMORIAL PARK OFFICE EXPANSION, consisting of one (1) lot for commercial development; and

*WHEREAS*, prior to final approval by the City or County of a Subdivision Map, Precise Development Plan, Parcel Map or other land use application and recording of a final map for the project, the Applicant shall enter into an agreement with the District and complete financial arrangements for water service to each lot, unit or parcel of the project;

*WHEREAS*, the Applicant is the owner of real property in the District commonly known as 650 Bugeia Lane, Novato (Marin County Assessor's Parcel 143-151-15); and

*WHEREAS*, the District entered into a Water Service Facilities Construction Agreement for 650 Bugeia Lane (Valley Memorial Park) on January 26, 1977 with Valley Memorial Park, and fees were collected for water use entitlement of two equivalent dwelling units (EDUs); pursuant to District Regulation from time to time in effect; and

*WHEREAS*, the District entered into a new Water Service Facilities Construction Agreement for 650 Bugeia Lane (Valley Memorial Park) on August 26, 1986, to upgrade to a 2-inch meter and fees were collected for water use entitlement of twenty-eight additional EDUs, for a total of 30 EDUs; and

*WHEREAS*, the District entered into an additional Water Service Facilities Construction Agreement for 650 Bugeia Lane (Valley Memorial Park) on September 11, 2012, to provide recycled water and no fees were collected, but Valley Memorial Park paid all retrofit costs in lieu of fees equivalent to a total water demand of 66 EDU; and

WHEREAS, the total demand for the new project is expected to add an additional three (3) EDUs, for a total of 69 EDUs; and

NOW THEREFORE, the parties hereto agree as follows:

1. The Applicant hereby applies to the District for water service to said real property and project and shall comply with and be bound by all terms and conditions of this agreement, the District's regulations, standards and specifications and shall construct or cause to be constructed the water facilities required by the District to provide water service to the real property and project. Upon acceptance of the completed water facilities, the District shall provide water service to said real property and project in accordance with its regulations from time to time in effect.

2. Prior to the District issuing written certification to the City, County or State that financial arrangements have been made for construction of the required water facilities, the Applicant shall complete such arrangements with the District in accordance with Section 5 of this agreement.

3. Prior to release or delivery of any materials by the District or scheduling of either construction inspection or installation of the facilities by the District, the Applicant shall:

a. deliver to the District vellum or mylar prints of any revised utility plans approved by the City or County to enable the District to determine if any revisions to the final water facilities construction drawings are required. The proposed facilities to be installed are shown on Drawing No. 1 2789.001, entitled, "VALLEY MEMORIAL PARK OFFICE EXPANSION", a copy of which is attached, marked Exhibit "A", and made a part hereof. (For purposes of recording, Exhibit "A" is not attached but is on file in the office of the District.)

b. grant or cause to be granted to the District without cost and in form satisfactory to the District all easements and rights of way shown on Exhibit "A" or otherwise required by the District for the facilities.

c. deliver to the District a written construction schedule to provide for timely withdrawal of guaranteed funds for ordering of materials to be furnished by the District and scheduling of either construction inspection or construction pursuant to Section 5 hereof.

4. Except for fire service, new water service shall be limited to the number and size of services for which Initial Charges are paid pursuant to this agreement. Initial Charges for new services, estimated District costs and estimated applicant installation costs are as follows:

**Initial Charges**

Meter Charges (Domestic) (Included in Estimated District Costs) .....	.....One 2-inch @	\$ 0.00	\$ 0.00
Meter Charges (Fire Service) (Included in Estimated District Costs) ...	...One 5/8-inch @	\$ 0.00	\$ 0.00
Reimbursement Fund Charges .....	.....One 2-inch @	\$ 3,140.00	\$ 3,140.00
Facilities Reserve Charges.....	.....Three @	\$ 28,600.00	\$ 85,800.00
Facilities Reserve Charges (Deposit, 3 Yr Review).....	.....Two @	\$ 28,600.00	\$ 57,200.00

Credit for Existing Services (one 2" w/2 EDU (\$3,140) +2x\$28,600).....	@	\$<60,340.00>	\$ <60,340.00>
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<b>Subtotal - Initial Charges.....</b>		<b>\$ 85,800.00</b>
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**Estimated District Costs**

Pipe, Fittings & Appurtenances.....	\$ 11,259.00
District Construction Labor.....	\$ 17,331.00
Engineering & Inspection.....	\$ 3,225.00
Bulk Materials.....	\$ 297.00

<b>Subtotal –Estimated District Costs.....</b>	<b>\$ 32,112.00</b>
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**Estimated Applicant Installation Costs**

Installation Labor.....	\$ 0.00
Contractor Furnished – Pipe Fittings & Appurtenances.....	\$ 0.00
Bulk Materials.....	\$ 0.00

<b>Subtotal- Estimated Applicant Installation Costs.....</b>	<b>\$ 0.00</b>
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<b>TOTAL ESTIMATED WATER FACILITIES COSTS.....</b>	<b>\$117,912.00</b>
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(Bulk materials are such items as crushed rock, imported backfill, concrete, reinforcing steel, paving materials, and the like, which are to be furnished by the contractor performing the work.)

5. Financial Arrangements to be made by the Applicant shall consist of the following:

Initial Charges and Estimated District Costs

The Applicant shall pay to the District the sum of Initial Charges and Estimated District Costs, less the Facilities Reserve Charges (Deposit) to be reviewed 3 years after occupancy, as set forth in Section 4 hereof in the amount of \$60,712 and the sum of the Facilities Reserve Charges to be reviewed 3 years after occupancy approval for the expanded facilities as set forth in Section 4 hereof in the amount of \$57,200.

By this agreement Facility Reserves Charges totaling one (1) EDU is collected in payment and two (2) EDUs are collected as a deposit in an irrevocable letter of credit in form satisfactory to the District and payable at sight at a financial institution in the Novato area. Three years after the project's occupancy approval, the District shall evaluate required Facility Reserve Charges based on review of the EDU calculation to be performed solely by the District and derived from actual peak bimonth water use for a thirty-six (36) month period following the date of project occupancy approval. The District shall draw upon said funds guaranteed by the letter of credit for Facility Reserve Charges (Deposit) required. Funds determined not to be required pursuant to the District evaluation shall be released to the Applicant subsequent to the above noted evaluation. The cost per Facility Reserve Charge EDU

collected by the letter of credit shall be the March 2016 rate of \$28, 600 per EDU. Pursuant to District regulations from time to time in effect, if at any time water use exceeds that used in fixing the Facility Reserve Charge the District may require the customer to pay additional Facilities Reserve Charges at the rate in effect for each EDU of such excess.

Whenever an irrevocable letter of credit is required by this agreement, the Applicant may substitute cash deposited with the District or a certificate of deposit at a financial institution in the Novato area provided the certificate may be cashed at sight by the District at any time.

6. The applicant shall not resell any water furnished pursuant to this agreement. If multiple services from a single connection to the District's system through a master meter are allowed pursuant to District Regulation 4(b) the Applicant shall not submeter the individual services. The District's bills for water measured by a master meter shall be paid by the Applicant or a responsible homeowner's association. If a rental unit served through a master meter is converted into a separately owned unit the District may require the installation of a separate connecting main and meter for water service to the unit at the cost of the owner of the unit.

7. Water service through the facilities to be installed pursuant to this agreement will not be furnished to any building unless the building is connected to a public sewer system or to a waste water disposal system approved by all governmental agencies having regulatory jurisdiction. This restriction shall not apply to temporary water service during construction.

8. New construction in the District's Novato service area is required to be equipped with high efficiency water conserving equipment and landscaping specified in Regulation 15 sections e. and f.

9. All estimated costs set forth in this agreement shall be subject to periodic review and revision at the District's discretion. In the event the Applicant has not completed financial arrangements with the District in accordance with Section 5 hereof prior to expiration of six (6) months from the date of this agreement, all Initial Charges and estimated costs set forth in Section 4 hereof shall be revised to reflect then current District charges and estimates. In the event the Applicant has not secured final land use approval for the project from the City of Novato or County of Marin, recorded a final map and diligently commenced construction of improvements required by those agencies and the District prior to expiration of one (1) year from the date of this agreement, the District may, at its option, either retract financial certifications issued to City, County and State agencies and terminate this agreement or require amendment of this agreement and review of all Initial Charges and estimated costs contained herein. The Applicant shall pay any balance due upon demand or furnish a guarantee of such payment satisfactory to the District.

10. All extensions of time granted by the City of Novato or the County of Marin for the Applicant to comply with conditions of land use approval or to construct improvements pursuant to a subdivision improvement agreement shall require concurrent extensions of this agreement and shall be cause for review and revision of all Initial Charges and estimated costs set forth in Section 4 hereof. The Applicant shall apply to the District for extension of this agreement prior to approval of the Applicant's requests for such extensions by either the City of Novato or the County of Marin.

11. This agreement shall bind and benefit the successors and assigns of the parties hereto; however, this agreement shall not be assigned by the Applicant without the prior written consent of the District. Assignment shall be made only by a separate document prepared by the District at the Applicant's written request.

**NORTH MARIN WATER DISTRICT**  
"District"

**ATTEST:**

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John Schoonover, President

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Katie Young, Secretary

(SEAL)

**VALLEY MEMORIAL PARK, INC.**  
A California Corporation  
"Applicant"

(SEAL)

---

George B. Estes, General Manager

**NOTES:** *If the Applicant executing this agreement is a corporation, a certified copy of the bylaws or resolutions of the Board of Directors of said corporation authorizing designated officers to execute this agreement shall be provided.*


*This agreement must be executed by the Applicant and delivered to the District within thirty (30) days after it is authorized by the District's Board of Directors. If this agreement is not signed and returned within thirty days, it shall automatically be withdrawn and void. If thereafter a new agreement is requested, it shall incorporate the Initial Charges (connection fees) and cost estimates then in effect.*

**ALL SIGNATURES MUST BE ACKNOWLEDGED BEFORE A NOTARY PUBLIC.**

8



## MEMORANDUM

To: Board of Directors  
From: Chris DeGabriele, General Manager   
Subj: Marin BayWAVE Adaptation Vulnerability Evaluation  
t:\gmt\2016 misc\baywave mtg 030116.docx

March 11, 2016

**RECOMMENDED ACTION:** Information Only**FINANCIAL IMPACT:** None

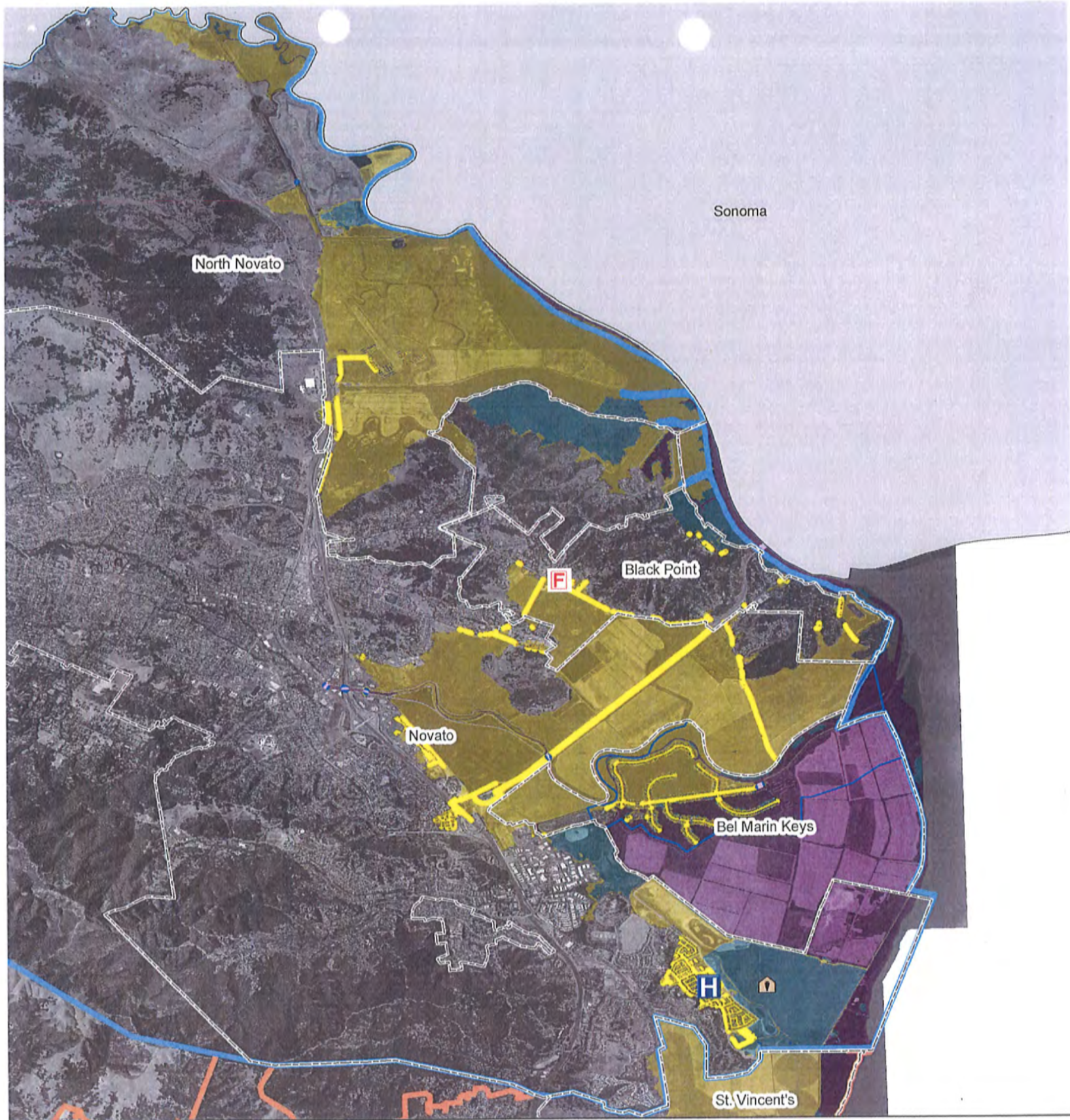
District staff (myself, Drew McIntyre, and Robert Clark) met with Marin County BayWAVE staff (Chris Choo and Bridgett VanBelenhem) on Tuesday, March 1<sup>st</sup> to review mapping of the eastern Marin shoreline sea-level rise projections and potential effects on local District facilities. The scenarios contemplated in the BayWAVE process include sea-level rise of 10" at year 2030, 20" at year 2050 and 60" at year 2100, all combined with a 100 year storm event.

The scenarios are shown on the attached map. We identified the following District facilities that may be impacted: Deer Island Recycled Water Facility, the Recycled Water Transmission Pipeline from Las Gallinas Valley Sanitary District, the Intertie valve with Marin Municipal at Highway 37, the cathodic protection anode bed at Bel Marin Keyes, various air valves and fire services in potential inundated areas and potentially the District Administration HQ and corporation yard.

The BayWAVE effort complements the recent Marin ocean coast sea-level rise program (CSMART) and is being funded by the County of Marin and by the State Coastal Conservancy. The vulnerable facilities will be identified in a draft report and on mapping likely to be available sometime this summer and ultimately will be incorporated into Marin map.

I will keep the Board apprised as further progress continues.





# Sea Level Rise Map Scenarios

- 10 in.
- 20 in.
- 60 in.

## Exposed Buildings

- @10"
- @20"
- @60"

## Exposed Roads

- @10"
- @20"
- @60"

Disclaimer: Vulnerability Assessment maps, tabl  
etc. can be used as a resource to help iden  
potential hazardous areas and vulnerable asse  
Marin County, and data providers here in, make  
warranties of the accuracy or completeness of m  
and data. Maps are representational and subjec  
future revision. Local site conditions must l  
examined. Commercial use is prohibi

Date: 2/29/2016


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Mil



9



## MEMORANDUM

To: Board of Directors  
From: Chris DeGabriele, General Manager   
Subj: Russian River Biological Opinion Public Policy Facilitating Committee  
L:\gm\scwa\2016\ppfc meeting 030316.docx

March 11, 2016

**RECOMMENDED ACTION:** Information Only**FINANCIAL IMPACT:** None at this time

I attended the March 3, 2016 PPFC meeting along with Director Petterle and Director Rodoni, (agenda and supporting information attached). Director Petterle and myself attended the Mirabel Fish Passage Improvement Project tour, now under construction. Although the majority of the work is above the waterline, sheet piles remain in the river to protect the worksite from further potential flooding. SCWA and the contractor believe construction will be wrapped up this spring, but from my prospective it looks to be mid-summer at the earliest.

The fish passage improvement project adds new diversion screens at the Russian River diversion structure to bring water into infiltration basins adjacent to collectors 4, 5 and 6; provides a new fish ladder and viewing gallery for public viewing and scientific monitoring of fish passing the facility both upstream and downstream; and a new anchorage for the rubber dam at Mirabel.

The PPFC meeting itself included presentations on the Dry Creek Habitat Enhancement milestones and timeline. Mile 1 of the Dry Creek Habitat Enhancement is completed. Mile 2 will complete this summer and construction will commence on Mile 3 and continue into 2017. Construction on Miles 4, 5 and 6 will be undertaken in years 2018 to 2023. Corps of Engineers discussed the Continuing Authorities Program which will help with funding on Miles 2 and 3 and the General Investigation Program which is intended to help with funding on Miles 4, 5 and 6. Environmental assessment is still needed for both the CAP and the GI programs. These programs enable Corps of Engineers to share in both the design and construction cost with SCWA. Land acquisition and maintenance however will be SCWA's responsibility.

Bob Coey, from National Marine Fisheries Service briefly discussed the Safe Harbor Agreement, which was executed later in the day at Dry Creek Vineyards. At that location I had an opportunity to view the habitat improvements on their property which have now gone through two years of growing season and flooding and withstood same in very good fashion. Coey advised that Safe Harbor Agreements have been used widely by the U.S. Fish and Wildlife

Service but never before by National Marine Fisheries Service. The Safe Harbor Agreement provides a 35 year voluntary agreement between NMFS and SCWA, and outline the management activities that provide a net conservation benefit for the Habitat Enhancement Projects. SCWA then enters into voluntary cooperative agreements with landowners providing them protection from endangered species take provided they submit farm management plans and adhere to best management practices outlined in those plans.

Jessica Martini-Lamb from SCWA provided an overview of the Estuary Management Program and Final Jetty Study. The Jetty Study identified that seepage through the beach is impeded by the Jetty and its' access features. The Jetty elements have stabilized the beach so Russian River discharge to the ocean no longer migrates along the beach. Alternatives for improvement include: removing the entire jetty, removing just the access elements, or the hardened jetty itself, or doing nothing. Results of the Jetty Study will be discussed in a meeting in Monte Rio on April 20<sup>th</sup> and the draft report will be released just prior to that meeting.

Jessica Martini-Lamb also reviewed the Fish Flow Draft Environmental Impact Report which will identify minimum instream flow requirements pursuant to the Biological Opinion and will propose to move the hydrologic index measurement from Lake Pillsbury to Lake Mendocino. The Draft EIR is anticipated to be released in July with a 60-day public comment period and its hopeful that the final EIR will be issued in early 2017.



## Russian River Biological Opinion Public Policy Facilitating Committee

### AGENDA

Thursday, March 3, 2016

9 a.m. – 1:00 p.m.

Westside Water Education Center

8:30 **MIRABEL FISH PASSAGE IMPROVEMENT PROJECT** *(optional site visit)*

Brian Paulson & David Cuneo, Sonoma County Water Agency

9:45 **WELCOME & PPFC PANEL INTRODUCTIONS** *(Westside Water Education Center)*

PPFC Chairman Efren Carrillo

10:00 **BRIEF OVERVIEW OF MAJOR MILESTONES AND UPDATES**

#### **Dry Creek Habitat Enhancement**

- Dry Creek Habitat Enhancement Milestones and Timeline, Miles 2-6  
David Manning and Greg Guensch, Sonoma County Water Agency
- Corps CAP and General Investigation  
Kelly Janes, U.S. Army Corps of Engineers
- Safe Harbor Agreement  
Bob Coey, National Marine Fisheries Service

#### **Estuary**

- Estuary Management and Final Jetty Study  
Jessica Martini-Lamb, Sonoma County Water Agency

#### **Fish Flow Draft Environmental Impact Review**

- Timeline  
Jessica Martini-Lamb

10:40 **PUBLIC COMMENT**

10:55 **CLOSING REMARKS**

Chairman Carrillo

11:45 **SAFE HARBOR AGREEMENT, NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION & SONOMA COUNTY WATER AGENCY** *(Dry Creek Vineyards)*

12:15 **REFRESHMENTS & DRY CREEK HABITAT ENHANCEMENT** *(optional site visit)*

*DISABLED ACCOMMODATION: If you have a disability which requires an accommodation, an alternative format, or requires another person to assist you while attending this meeting, please contact the Sonoma County Water Agency at (707) 547-1930, as soon as possible to ensure arrangements for accommodation.*

**DIRECTIONS TO SAFE HARBOR AGREEMENT SIGNING CEREMONY @ DRY CREEK VINEYARD  
(3770 Lambert Bridge Rd, Healdsburg)  
FROM WESTSIDE WATER EDUCATION CENTER**

From parking, turn right to stay on Wohler Rd  
Veer right at stop sign to head up Westside Rd  
Stay on Westside for 9.2 mi  
Turn left onto Kinley Dr, for 1.4 miles  
Turn left onto Dry Creek Rd  
Stay on Dry Creek Road for 3.2 miles  
Turn left onto Lambert Bridge Rd  
Destination will be on the left



## DRY CREEK DEMONSTRATION PROJECT REACHES AND TIMELINE

COMPLETED AND IN-DESIGN PROJECTS, 2015



	Milestone 1	Milestone 2	Decision Point	Milestone 3
Complete design phase, permitting, landowner agreements, begin construction	1 mile of habitat in Dry Creek completed and work on miles 2 & 3 begins	Complete Enhancement of miles 2 & 3	Evaluate success of the enhancement projects	Enhance 3 additional miles of habitat in Dry Creek for a total of 6 miles
2012	2014	2017	2018	2020



## DRY CREEK DEMONSTRATION PROJECT SITE WORK

DEMONSTRATION PROJECT: BANK STABILIZATION, BACKWATER PONDS & CHANNEL, RIFFLES AND BOULDER FIELDS

### DRY CREEK DEMONSTRATION SITE

This site at Dry Creek was chosen for numerous reasons. The landowners were open to habitat improvements on their property and the site includes existing creek features that are suitable to habitat restoration. In addition, most of the habitat restoration work could take place in the stream channel without encroachment into agricultural lands.



*bank stabilization construction*

### BY THE NUMBERS

#### *Large wood:*

- 1,215 pieces, made up of:
  - 378 root wad logs
  - 589 logs without root wads
  - 248 vertical snag logs

#### *Boulders:*

- 1,213 boulders

#### *Material removed:*

- Approximately 30,000 cubic yards of material moved out of the habitat enhancement areas



*root wad log placement*

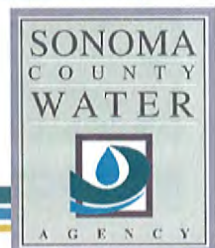
### SITE FEATURES

*Bank stabilization* on the Wallace and Mascherini properties consists of fabric encapsulated soil lifts vegetated with willow/dogwood cuttings underlain by root wad crib walls that stabilize the banks while providing year-round fish refuge. Prior to habitat enhancement, the sites were eroding, resulting in sediment entering the creek and loss of land for the property owners.



*after bank stabilization*

A *backwater channel* on the Quivira Vineyards and Winery property provides refuge for small fish during high water flows in the winter.







*backwater pond*

*Backwater ponds* on the Van Alyea and Wallace properties consist of excavated areas that function as year-round ponds designed to provide rearing habitat for small fish in the summer and refuge during high water events in the winter. The ponds contain log jams, and a variety of large wood that provides refuge at summer water levels and during high-water events.



*instream boulder field*

*Three constructed riffles* (on the Rued, Lipton, Wallace and Mascherini properties) provide complexity to the creek, stabilize the streambed and create habitat for aquatic insects, which provide food for fish.

*Five instream boulder clusters and two large boulder fields* provide habitat for fish and help control the flow of Dry Creek. The boulder field also controls water flow patterns and elevation at the mouth of the backwater ponds.

#### **COST**

Habitat restoration costs range from about \$6 million to \$8 million per mile.



*backwater pond and bank stabilization*



## THE RUSSIAN RIVER BIOLOGICAL OPINION: FREQUENTLY ASKED QUESTIONS

FALL 2015

### What is a “biological opinion”?

A biological opinion is a determination made by a federal agency—in this case the National Marine Fisheries Service (NMFS)—to help restore and protect threatened or endangered species. Biological opinions are prepared when federal government agencies consult with other federal agencies in a process spelled out in Section 7 of the Endangered Species Act.

If the biological opinion finds that the species are likely to be harmed by the project, it includes “reasonable and prudent alternatives” that must be implemented. In this case the project is the ongoing water supply and flood control activities of the U.S. Army Corps of Engineers (Corps) on behalf of the Sonoma County Water Agency (Water Agency) and the Mendocino County Russian River Flood Control and Water Conservation Improvement District in the Russian River watershed.

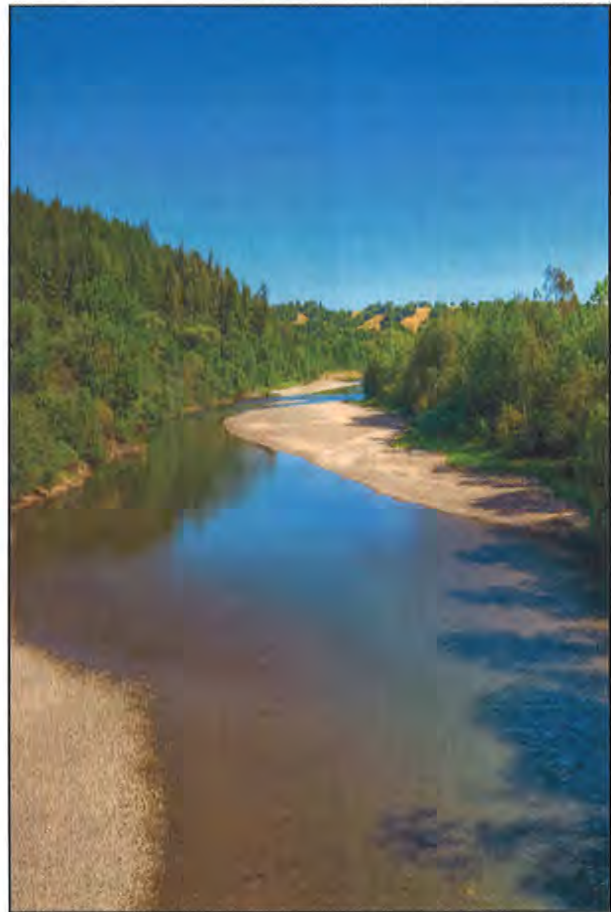
### What problem is the Russian River biological opinion trying to solve?

The Russian River and its major tributaries are home to three species of fish that are threatened or endangered: steelhead, coho salmon and Chinook salmon. There are many reasons for the decline of these species, including historic overfishing, gravel mining, development near the river and its tributaries, increased sedimentation from logging and historic agricultural practices, and changing climate and ocean conditions. The reasons also include flood control and water supply projects in the river and in Dry Creek. The flood control and water supply projects are the sole focus of the biological opinion. Essentially, the biological opinion addresses the following questions:

- 1) Do the flood control projects operated by the Corps and the water supply and flood control projects operated by the Water Agency threaten to jeopardize the continued existence of steelhead, coho, and Chinook?
- 2) If the answer to question #1 is yes, how can these projects or operations be changed to enable the survival and the recovery of the species?

### What does this biological opinion find?

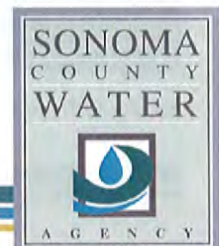
After more than 10 years of studies, NMFS found that some aspects of flood control and



*The Russian River*

water supply operations threaten to jeopardize steelhead and coho but not Chinook. This jeopardy opinion means that the Water Agency and the Corps must change operations. There are three areas of particular concern:

- High summertime flows in the Russian River and Dry Creek: Contrary to what biologists believed in 1986, when the State Water Resources Control Board set minimum summertime Russian River flows in a ruling referred to as Decision 1610, biologists have concluded that fast-moving water in the river and Dry Creek makes it difficult for juvenile steelhead and coho to grow and thrive.
- The high velocity of water in Dry Creek in the summer: Fourteen-mile-long Dry Creek is the means by which water from Lake Sonoma gets to the Russian River. The fast-moving





water in the creek makes it difficult for young fish to thrive. The biological opinion requires that there be habitat enhancement and changes in the configuration of the channel to create slow-moving pools and fish refuge along six miles of the creek.

- The historic practice of “breaching” the sandbar at the estuary: Federal biologists believe that breaching negatively affects the estuary (the mouth of the river) by allowing more saltwater than is natural to flow into it and by keeping the amount of freshwater artificially low. The biological opinion requires the Water Agency to adopt “adaptive management” practices in the estuary, with the goal of installing an outlet channel in the barrier beach in the summer months to create a freshwater lagoon in which young steelhead can grow.

#### Who is involved?

The National Marine Fisheries Service, the Sonoma County Water Agency, the U.S. Army Corps of Engineers, the Mendocino County Russian River Flood Control and Water Conservation Improvement District, and



*Dry Creek Habitat Enhancement Project*

the California Department of Fish and Wildlife are the agencies involved, with the Water Agency and the Corps responsible for implementing the reasonable and prudent alternatives.

#### How long will this biological opinion be in effect?

The Russian River biological opinion is a 15-year plan that began in September, 2008.

#### What happens if the Water Agency fails to implement the biological opinion?

The Water Agency is committed to carrying out the biological opinion, but many of the projects envisioned in later years could change as data becomes available from projects implemented earlier and from the extensive studies and monitoring involved. Think of the biological opinion as a blueprint that can be adjusted by agreement as the situation evolves and new information becomes available.

#### How much will it cost?

While subject to change, it's estimated that the habitat enhancement, monitoring, and studies required of the Water Agency and the Corps will cost approximately \$150 million to \$165 million over 15 years.

#### Who is paying for it?

Funding comes from a variety of sources, including ratepayers, state and federal grants and existing tax revenues that can be designated for this purpose.

#### Who is overseeing its implementation?

The biological opinion requires that the Water Agency conduct extensive monitoring and reporting. The data is provided to NMFS and the California Department of Fish and Game, which monitors the work.

#### How can the public get involved?

There are several ways the public can get involved:

- Environmental documents have been or



*Young chinook salmon*



will be prepared for the different actions required to implement the biological opinion. The environmental review process includes many opportunities for people to comment.

- Staff from the Water Agency and NMFS regularly conduct informational presentations to community and neighborhood groups.

If you are interested in more information, visit [www.sonomacountywater.org/rrifr](http://www.sonomacountywater.org/rrifr).

#### **What is an estuary? And why is it important to steelhead, coho, and Chinook?**

An estuary is where a river meets the sea. The convergence of freshwater from the river and saltwater from the sea creates a dynamic environment that supports a broad diversity of fish, wildlife and invertebrate and plant species. Estuaries play an important role in the life history of steelhead, coho and Chinook. Salmon use estuaries to adapt to saline conditions prior to entering the ocean and to adapt to freshwater before migrating upstream to the spawning grounds. Some species, particularly steelhead, spend extended periods of time in estuaries.

#### **I thought fish need lots of water, so why does the biological opinion require less water in the Russian River?**

Biologists have concluded that current flow releases into the river are much higher during the summer than under natural conditions and are too high for young steelhead and coho. Reducing summer flows in the Russian River would provide better habitat by reducing velocity, would eliminate the need to artificially breach the sandbar at the estuary and may improve summer habitat in the estuary by allowing the formation of a freshwater lagoon. Reducing summer flows in the upper Russian River would also retain a greater amount of the cold-water pool in Lake Mendocino, which would be available to be released in the late summer and the early fall, benefiting Chinook returning to the river to spawn.



*The Russian River Estuary at Jenner*

#### **What is the process for changing the summertime flows in the Russian River?**

Summertime flows are controlled by Decision 1610, the ruling that requires minimum flow levels at specified areas of the Russian River and Dry Creek. The minimum flow levels vary, depending on whether the year is "normal," "dry," or "critical." (Decision

1610 requires that the Water Agency release water from Lake Mendocino and Lake Sonoma to maintain these flows regardless of the amount of water that others take from the river and the creek.)

The biological opinion requires that summertime flows be permanently reduced to replicate river conditions in dry years (although the biological opinion does acknowledge the complexity of operating the system and allows flows to vary).

Since the biological opinion was released, the Water Agency has submitted a petition to the State Water Resources Control Board (State Board) asking for changes to Decision 1610 and is preparing an Environmental Impact Report (EIR) required by the California Environmental Quality Act. The draft EIR will be released in Spring 2016 and will include public hearings and a public comment period.

This petition triggers a process, which could take several years. The State Board will weigh the information provided in the EIR with other factors when making the ultimate decision on summertime flows. In addition, because the biological opinion requires lower flows beginning in 2010, the Water Agency annually petitions the State Board for interim changes to Decision 1610.

#### **Because Dry Creek is the conduit to get Lake Sonoma water to the Russian River, if there is less water in the creek, won't that mean less water for people?**

The reasonable and prudent alternatives provide for habitat enhancement in Dry Creek. The goal is to naturalize the creek in a way that allows



water to continue to flow to meet the current demands of people while creating slow-moving pools and shady areas for young steelhead and coho to grow.

**If less water is needed in the river, would the diversion of Eel River water end?**

Pacific Gas & Electric's diversion of Eel River water through the Potter Valley Project is regulated by the Federal Energy Regulatory Commission. These diversions from the Eel River are not controlled by the Water Agency and will not change as a result of the biological opinion.

**Does the biological opinion require a pipeline to be built from Lake Sonoma to the Russian River?**

No. The biological opinion does not require the construction of a pipeline. It does require a pipeline feasibility study, which was finalized in 2011. If habitat enhancement projects in Dry Creek are determined to be unsuccessful, in year 10 (2018), the biological opinion requires a change in approach, which could result in additional pipeline studies.

**How will less water in the river affect summertime recreation?**

Canoeists, kayakers, swimmers and people who just like to float down the river in inner tubes are an important part of the river culture. The EIR will include analyses of how lower flows might affect recreation on the river.

**Why doesn't the biological opinion assess impacts on humans?**

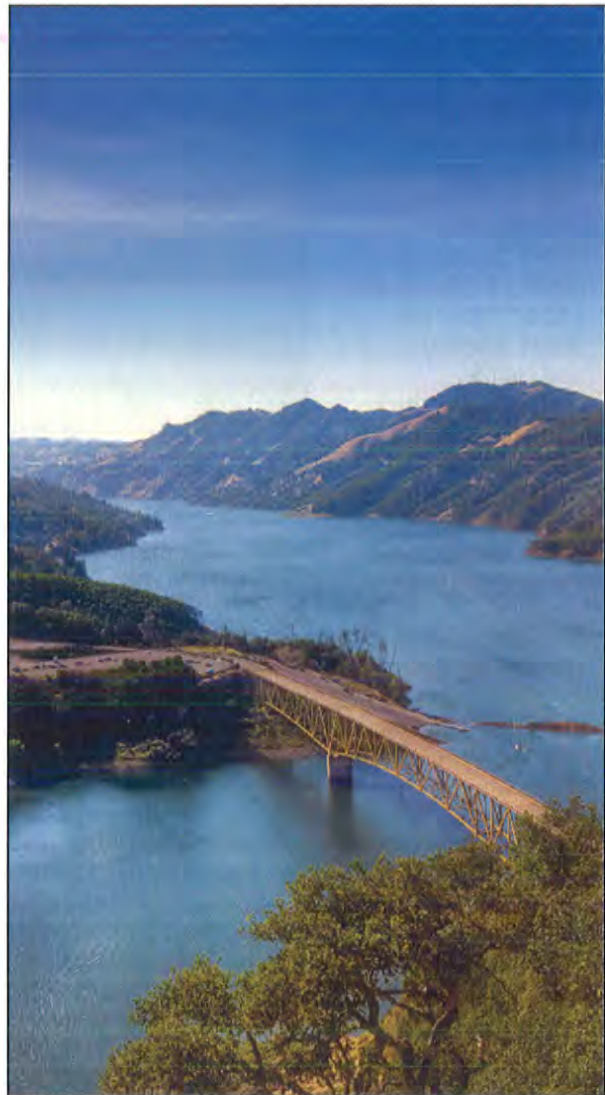
Under the federal Endangered Species Act, biological opinions must assess the impacts of projects on threatened species, not on humans. The EIR that is required to change minimum summertime flows in the Russian River, however, will assess the impacts on humans, including potential effects on recreation.

**Shouldn't the biological opinion address all the problems in the watershed?**

The purpose of the biological opinion isn't to address all problems in the watershed but to address those problems related to specific Water Agency and Corps operations.

**How does the biological opinion address likely impacts of climate change in our area?**

The biological opinion assumes that local impacts from global climate change will be limited and difficult to predict in the next 15 years. The effects of climate change as it relates to



*Lake Sonoma*

lowering the flows in the Russian River will be addressed in the environmental impact report.

**What is an "incidental take statement"?**

The federal Endangered Species Act prohibits the "take" (in essence, the killing, harassment, or harm) of threatened species. Agencies can be exempted from take by the regulating agency (in this case NMFS) if species are harmed incidentally as an unintentional result of lawful operations. The biological opinion includes an incidental take statement that exempts the Water Agency and the Corps from take that could result from specified lawful operations and from changes in operations as a result of the biological opinion so long as the terms and conditions of the statement are met.



### DRY CREEK COMMUNITY MEETING

The annual Dry Creek Community Meeting will provide an update on the Dry Creek Habitat Enhancement Project.

**WHEN:** Thursday, January 14, 2016 from 6-8 p.m.

**WHERE:** Milt Brandt Visitors Center at Lake Sonoma, 3333 Skaggs Springs Rd., Geyserville

**WHAT:** Water Agency staff will present information about the status of the project and plans for construction of the next phase of the project in 2016.

### Welcome from Sonoma County Fourth District Supervisor James Gore

As your County Supervisor and a Dry Creek Valley native, it gives me great pleasure to introduce the first issue of the Dry Creek Habitat Enhancement Project Bulletin. This bulletin — provided by our Sonoma County Water Agency — endeavors to inform all community members about our actions to balance the protection of threatened and endangered fisheries with the demands of delivering drinking water to more than 600,000 customers. As you will read here within, this undertaking requires a unique private-public partnership between the Water Agency and Dry Creek landowners, the same landowners who co-manage the needs of production agriculture and environmental stewardship through working lands conservation.

Please join us for a Community Meeting to provide an update on the Dry Creek Habitat Enhancement on Thursday, January 14, 2016 from 6-8 p.m. at the Milt Brandt Visitors Center at Lake Sonoma, 3333 Skaggs Springs Rd., Geyserville. Water Agency staff will present information about the status of the project and plans for construction of the next phase of the project in 2016. We look forward to seeing you there and hearing from you about the project.

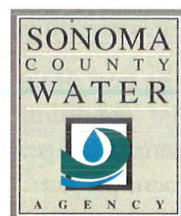
Sincerely,

James Gore

Sonoma County Fourth District Supervisor and  
Sonoma County Water Agency Director

### More about the Project

For questions related to the project, contact Barry Dugan at (707) 547-1930 or [barry.dugan@scwa.ca.gov](mailto:barry.dugan@scwa.ca.gov). Information about the Dry Creek Habitat Enhancement Project can be found at [www.sonomacountywater.org/drycreek/](http://www.sonomacountywater.org/drycreek/)



## Dry Creek Project

### Dry Creek Habitat Enhancement Bulletin

Vol. 1, Fall, 2015

## Slowing velocity, creating refuge are key to habitat project

The Dry Creek Habitat Enhancement Project provides a unique opportunity for the Sonoma County Water Agency (Water Agency) and landowners to protect endangered fish species in the Russian River watershed while continuing to deliver water to 600,000 customers. The National Marine Fisheries Service (NMFS) and California Department of Fish and Wildlife biologists have determined that current water velocities in Dry Creek in the summer are too high for young endangered Coho and threatened Chinook salmon and Steelhead.

The Habitat Enhancement Project is creating habitat features that include low-velocity areas for juvenile coho and steelhead along six miles of the 14-mile length of Dry Creek, while still allowing the Water Agency to use Dry Creek as a means of moving water downstream for water supply purposes. The first mile of the project, known as the Demonstration Project, was completed in 2014. Backwater pools and side channels to slow the speed of the water and create refuge for young fish were constructed using natural materials such as logs and rocks. Bank stabilization will reduce erosion and provide vegetation cover. Working with willing landowners, five additional miles of habitat enhancements will be constructed by 2020. The Water Agency and its contractors are currently conducting surveys covering miles 2-6 of Dry Creek. The continued cooperation of property owners and the support of the community are key to the success of this program.

*Dry Creek habitat enhancement features, such as this backwater pool (top, right), were able to withstand the high flows in December, 2014 (below, right) when heavy rains swelled Dry Creek. The log features remained intact and performed as designed.*



*This map shows the habitat enhancement projects along Dry Creek that have been completed and projects that are being designed. Lake Sonoma can be seen at bottom left and the city of Healdsburg near top right.*



# Dry Creek Project

## Property Owner Profile

### Dry Creek Vineyard owners tout the benefits of the project

When the idea of a habitat project along Dry Creek was first proposed, there was not unanimous agreement in the Stare Wallace household.

The project would improve conditions for endangered fish in the creek and stabilize eroding banks on their property. But it would also mean noise, dust, construction and an intrusion on their rural lifestyle.

Don Wallace and Kim Stare Wallace are the owners of Dry Creek Vineyard and their property runs along the creek just downstream of Lambert Bridge. "I was against this when I first heard about it," said Kim. "I was convinced it would turn our property into a park. I was concerned about giving anyone access to our property."

Her husband held a different view. Don saw the potential to improve conditions for endangered fish in the creek, and halt damaging erosion that threatened his property. As a farmer and winery owner, he values the land and the environment. "I think most people want to do what is right for the environment," he said. "Every farmer is a steward of the land."

Eventually, Kim was persuaded. "I was very skeptical," she said. "What Don convinced me of was that it's the right thing to do from an environmental standpoint. He convinced me it was a good idea. So far, we haven't been disappointed."

The Stare Wallace property was the first to be signed up for the project, more than three years ago. Their agreement became the model for contracts with other landowners, of which there were 10 in the first phase of the project.

"What we saw was that it was an opportunity that was good for everybody," said



*Kim Stare Wallace, pictured with her husband, Don Wallace, was initially skeptical about the Dry Creek Habitat Enhancement Project. After seeing the results and the benefits produced on her property, she is a proponent and supporter.*

Kim. "It was good for the creek, good for the fish and good for Dry Creek Valley. And good for property values."

---

**"If you're like me, I want to leave the land in better shape for the next generation."**

—Don Wallace

---

Work on the Stare Wallace property included stabilizing banks with large wood material and replanting with native vegetation. Across the creek, a backwater channel was built to provide refuge for

fish during high flows, and a riffle was constructed in the creek that slows down fast-moving water.

Don was impressed with the opportunity to have input into the project as it was being designed. "We were encouraged to interface with the design firm, Interfluve. They were receptive to our ideas about how to make it better," he said.

When Don talks with a neighbor who might be skeptical about the project, he just invites them over to see the results. "I can not only tell them, but show them, just how beneficial it can be," he said. "If you're like me, you want to leave the land in better shape for the next generation. Once they see what has happened here, it changes their mind."



# Dry Creek Project

## Team Members



**David Manning**  
**Environmental Resources  
Manager**

David supervises environmental programs including the Biological Opinion, water system improvements, and protection of fish, wildlife, and Russian River habitats.

**Contact:** 707-547-1988

David.Manning@scwa.ca.gov



**Dan Mason**  
**Right of Way Agent**

Dan works with property owners individually concerning the temporary property rights and easement agreements that are needed for the project.

**Contact:** 707-547-1912

Daniel.Mason@scwa.ca.gov



**Dave Cunco**  
**Environmental Specialist**

Dave is involved with landowner outreach, environmental compliance, permitting, and monitoring of the project before, during, and after construction.

**Contact:** 707- 547-1935

david@scwa.ca.gov



**Greg Guensch, P.E.**  
**Engineering Project Manager**

Greg is involved with landowner outreach, coordinates day-to-day project activities, reviews designs and calculations and manages design consultant contracts.

**Contact:** 707-547-1972

Gregory.Guensch@scwa.ca.gov

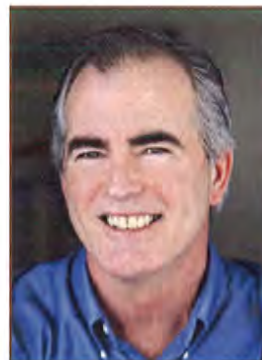


**Anne Crealock**  
**Environmental Specialist**

Anne is the lead for the preparation of the environmental impact report for the project. She also conducts biological surveys in the field, particularly pre-construction wildlife surveys.

**Contact:** 707-547-1948

annec@scwa.ca.gov



**Barry Dugan**  
**Outreach & Communications**

Barry coordinates media, communications and meetings. You will see him on tours and at meetings.

**Contact:** 707-547-1930

Barry.Dugan@scwa.ca.gov



**Ann DuBay**  
**Outreach & Communications**

Ann supports the Dry Creek team by coordinating media, communication, and meetings. You will see Ann on tours and at the annual Dry Creek Community Meeting.

**Contact:** 707-524-8378

Ann.DuBay@scwa.ca.gov

## Project Consultants:

### **Philip Luecking, P.E.**

Managing Associate Engineer, ESA

**Contact:** 415-262-2326 pluecking@esassoc.com

### **Josh Epstein**

Fluvial Geomorphologist, Inter-Fluve, Inc.

**Contact:** 541-716-5371 jepstein@interfluve.com

### **Mike Rudd, P.E.**

Vice President, Natural Resources Division, Cardno

**Contact:** 925-988-1227 michael.rudd@cardno.com

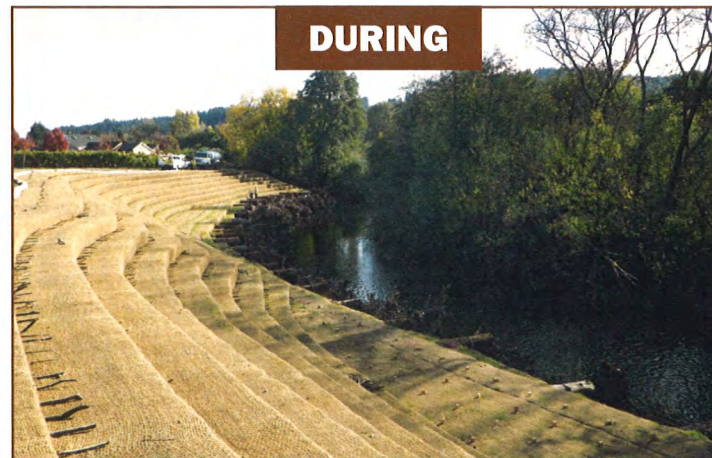


# Dry Creek Project

## Demonstration Project is a model for future phases

Construction of the first mile of the habitat enhancement project was completed in November of 2014 as the Dry Creek Habitat Enhancement Demonstration Project. A variety of habitat features were built to stabilize banks, reduce erosion and create slow-flowing areas where young fish can escape high summer and winter flows. Features were designed to minimize the effect on existing vineyard operations.

*The photo below shows a bank stabilization site before construction in June, 2014. Photo at right was taken during final construction in November, 2014. The photo at bottom right was taken after construction was completed in June, 2015. The increase in woody cover improves the riparian habitat and conditions for fish.*



## Salmon Stewards of Dry Creek recognizes landowners' role in project

The Salmon Stewards of Dry Creek program was created to recognize the landowners along the creek that have willingly participated in the project by allowing enhancement work to be completed on their property.

"Without willing landowners this project would not be possible," said David Manning, Environmental Resources + Manager with the Water Agency and project supervisor. "The cooperation and support we have received from property owners and the entire Dry Creek community has been tremendous. Obviously, the success of this project to enhance the habitat and protect the endangered species in the Russian Riv-



er watersheds depends on community support."

The Salmon Stewards of Dry Creek program allow wineries, vineyard owners and property owners to display the Salmon Steward logo, and utilize it in marketing materials. The program is voluntary and does not require any certification. Property owners participating in the Dry Creek Habitat Enhancement Project are allowed to be part of the Salmon Steward program.

For information about the Salmon Stewards of Dry Creek, contact Barry Dugan at the Sonoma County Water Agency at 547-1930 or [barry.dugan@scwa.ca.gov](mailto:barry.dugan@scwa.ca.gov).

# Dry Creek Project

## Monitoring projects are measuring program's effectiveness

A key component of the Dry Creek Habitat Enhancement Project is demonstrating that the project is meeting the requirements of the Biological Opinion.

The Water Agency has developed an Adaptive Management Plan (AMP) and is conducting a thorough monitoring and evaluation process to demonstrate the effectiveness of the habitat improvements.

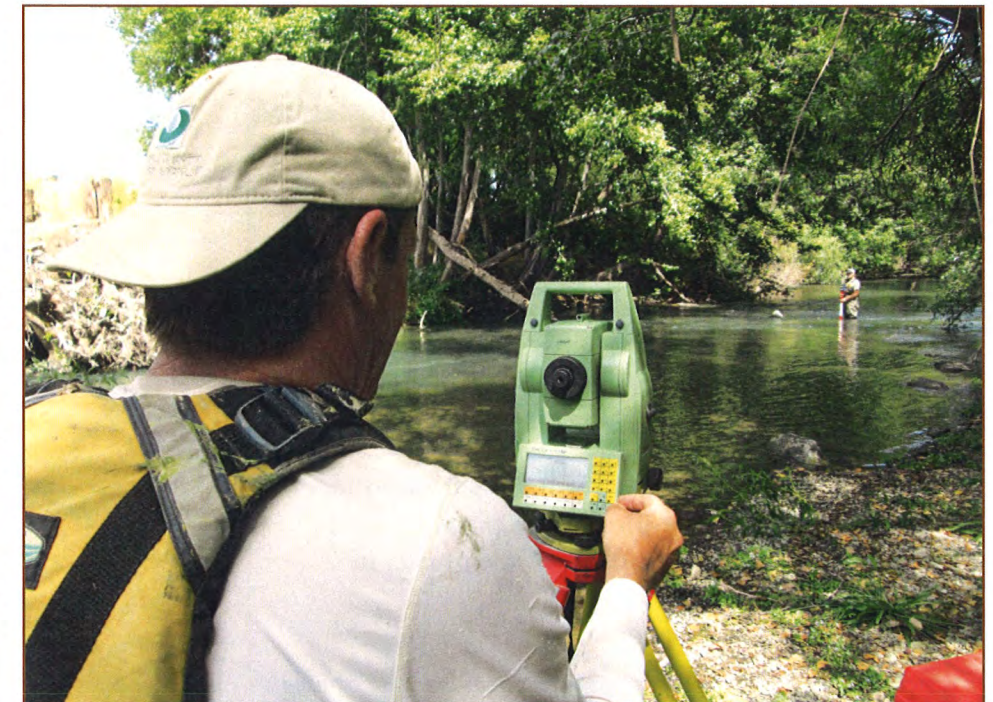
The evaluation process consists of three types of monitoring: implementation, effectiveness, and validation.

- Implementation monitoring determines if the habitat enhancements were constructed by the contractor according to the design.
- Effectiveness monitoring determines whether habitat enhancement is having the intended effect on physical habitat quality. This is done by measuring pre- and post-habitat enhancement conditions, including data on water depth and velocity, and the amount of instream cover.

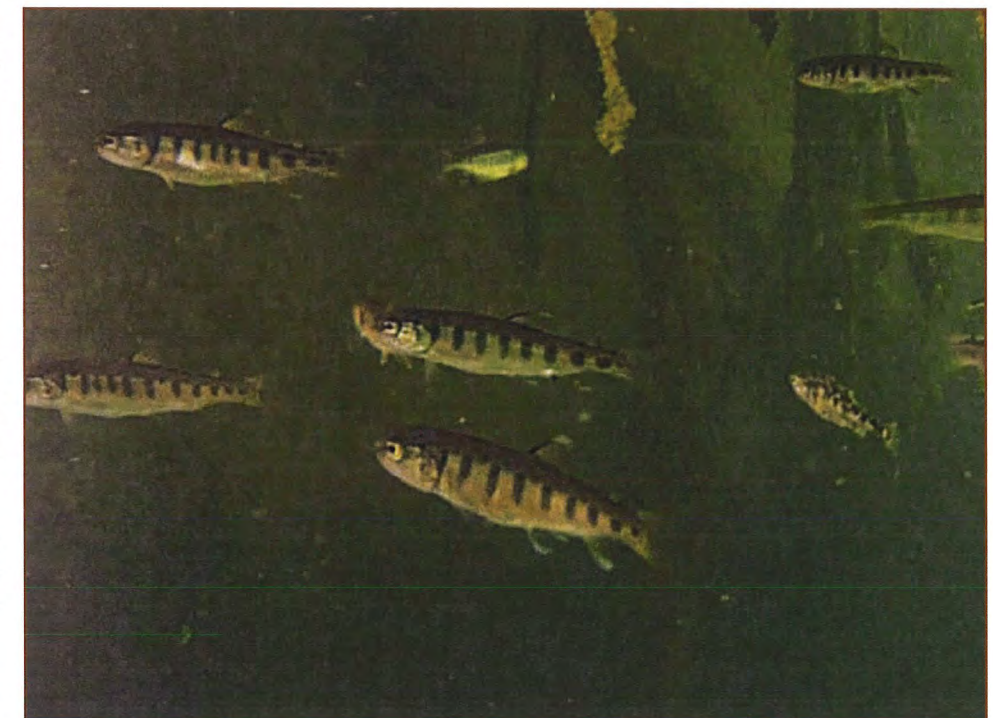
- Validation monitoring will determine if the habitat enhancements are improving the production and survival of steelhead and coho salmon in Dry Creek.

Snorkel surveys and implanted passive integrated transponder tags and remote detection devices are used to determine fish counts. Other monitoring will gauge the summer and winter habitat use, and the growth and survival of young fish. Water quality monitoring will determine if goals are being met for water temperatures and dissolved oxygen levels.

The goal of the AMP is to monitor habitat conditions over multiple years to detect changes that result from enhancement projects.



*Water Agency biologists use survey equipment and instream current meters to determine the pre- and post-habitat enhancement conditions, such as water depth and velocity.*



*Underwater cameras are used during snorkel surveys to film young steelhead that are living in the newly constructed habitat sites.*





## **Safe Harbor Agreement Signing Ceremony**

### **PROGRAM**

#### **Welcome & Presentation of Gold Resolutions to Dry Creek Habitat Enhancement Landowners**

- Sonoma County Water Agency Director James Gore

#### **Significance of Safe Harbor Agreement**

- Samuel D. Rauch III, Deputy Assistant Administrator for Regulatory Programs, National Oceanic and Atmospheric Administration
- Scott Wilson, Regional Administrator, California Department of Fish and Wildlife
- Sonoma County Water Agency Chairman Efren Carrillo
- Don Wallace, Proprietor, Dry Creek Vineyard

#### **Signing of Agreement between NOAA and Sonoma County Water Agency**

#### **Signing of Safe Harbor Agreement between Sonoma County Water Agency and Dry Creek Vineyard**

#### **Lunch Reception & Dry Creek site tours *(see back for additional information)***



## **Lunch Menu**

- ❖ Assorted Sandwiches
- ❖ Garden Pasta Salad
- ❖ Fruit Salad
- ❖ Crudités with Hummus
- ❖ Assorted Cookies
- ❖ Iced Tea, Water

## **Site Visit Schedule**

**12:45**      **Van 1 (shuttle to enhancement site; will go directly to Westside Water Education Center).** The van will drive straight back to the Westside Water Education Center to ensure participants are back at Westside by 1:30.

*If you will be riding on Van 1, go to the front of the food line so you will have time to eat before leaving.*

**12:55**      **Van 2 (shuttle between enhancement site and Dry Creek Vineyard)**

**1:20**      **Van 2, second trip (shuttle between enhancement site and Dry Creek Vineyard)**



# Key Considerations for Participating Landowners

## Sale or Transfer of Enrolled Property

If a property owner sells or gives away lands enrolled in the SHA, NOAA Fisheries will honor the agreement and associated permit, provided the new owner agrees to become a party to the original SHA and permit.

## Expiration of the Safe Harbor Agreement & Early Withdrawal

Landowners may withdraw from the agreement at any time. If the agreement expires, the regulatory assurances tied to the "Enhancement of Survival Permit" expire. In either case, the landowner is no longer protected from the "take" prohibitions of the ESA that are allowed under the permit. However, the SHA can be renewed as long as all parties mutually agree.

## Steps for Enrolling

If you are a private landowner in Dry Creek and are interested in enrolling in the Dry Creek Programmatic Safe Harbor Agreement, you can take the following steps:

1. Work with Sonoma County Water Agency staff to discuss and review conceptual designs for Dry Creek enhancement projects on your property;
2. Participate in the Dry Creek Habitat Enhancement Project;
3. Develop or review your farm plan and best management practices with the Sonoma County Water Agency and NOAA Fisheries;
4. Enter into a "Cooperative Agreement" that includes the terms and conditions of the Safe Harbor Agreement;
5. Receive a "Certificate of Inclusion" issued for an enrolled property, providing the landowner protection from any incidental "take" of protected fish that occurs during the lawful course of viticulture operations, so long as the agreed upon baseline habitat conditions are maintained.

## Learn More about Salmon & Steelhead Recovery...

[www.westcoast.fisheries.noaa.gov/protected\\_species/salmon\\_steelhead/recovery\\_planning\\_and\\_implementation/north\\_central\\_california\\_coast/north\\_central\\_california\\_coast\\_salmon\\_recovery\\_domain.html](http://www.westcoast.fisheries.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/north_central_california_coast/north_central_california_coast_salmon_recovery_domain.html)

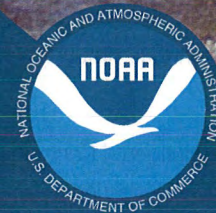
## Contacts:

Bob Coey, NOAA Fisheries West Coast Region - Email: [Bob.Coey@noaa.gov](mailto:Bob.Coey@noaa.gov); Phone: 707-575-6090

David Manning, Sonoma County Water Agency - Email: [David.Manning@scwa.ca.gov](mailto:David.Manning@scwa.ca.gov); Phone: 707-547-1988

West  
Coast  
Region

# A Landowner's guide to Dry Creek Habitat Enhancement "Safe Harbor" Agreement



NOAA  
FISHERIES





# Dry Creek Valley Programmatic Safe Harbor Agreement

## Overview

**A** Safe Harbor Agreement is a voluntary cooperative conservation agreement between private landowners and NOAA Fisheries or the U.S. Fish and Wildlife Service to support the recovery of species protected under the federal Endangered Species Act (ESA). As participants in the voluntary program, landowners receive assurances for ESA compliance in the form of “incidental take authorization” for their activities that are consistent with the agreement and support recovery of listed salmon and steelhead. These assurances are in place for the duration of the agreement. A Safe Harbor Agreement is now in place in northern California’s Dry Creek watershed. This guide serves as a resource for landowners who may be interested in participating.

Private landowners can take action to recover endangered coho salmon, as well as threatened Chinook salmon and steelhead in Dry Creek. They can do so by implementing habitat enhancement projects on their property as part of the Dry Creek Programmatic Safe Harbor Agreement (SHA). Under an ESA consultation with NOAA Fisheries on dam operations in the Russian River, the Sonoma County Water Agency (SCWA) and the U.S. Army Corps of Engineers (Corps) are required to enhance six miles of habitat in Dry Creek by working with landowners. One mile of habitat is now restored, and the SCWA is seeking to restore five additional miles. Landowners who are interested in participating are invited to enroll in the SHA. Participation is optional for private landowners. For landowners who decide to participate, they agree to allow the SCWA to conduct, maintain, and monitor habitat enhancement work on their property.

## Benefits to Protected Species

**N**OA Fisheries is responsible for conserving and recovering salmon and steelhead. Endangered Central California Coast coho salmon, found in the Russian River Basin, for example, is identified by NOAA Fisheries as one of eight species nationally that are at most risk of extinction. The Dry Creek Habitat Enhancement Project and the SHA are key to the recovery of this and other species, and private landowners play a critical role. By participating, landowners help enhance vital habitat, elevating the baseline habitat conditions for ESA-listed fish. This agreement gives the species the time and space they need to restore the populations to healthy, thriving numbers.

## Benefits to Participating Landowners

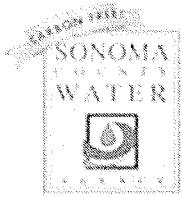
**B**y entering into a SHA, property owners receive assurances that land use restrictions will not be required even if the voluntary actions taken under the agreement attract ESA-listed species onto enrolled properties or increase the numbers and distribution of those species already present on the properties. The assurances are provided by NOAA Fisheries through an “Enhancement of Survival Permit” issued to the SCWA under the authority of section 10(a)(1)(A) of the ESA. This permit authorizes incidental take of species that may result from routine viticulture operations undertaken by the landowner under the SHA, which could include returning the property to the baseline conditions at the end of the agreement. The permit also specifies that NOAA Fisheries will not require any additional or different management activities by participants without their consent.

Viticulture operations, as described in a farm plan, will be covered in individual cooperative agreements for participating landowners. These normal, lawful activities include things such as the production, cultivation, growing, replanting, irrigation, harvesting, and preparation for market; delivery to storage or market; and delivery to carriers for transport to market. Other routine activities may include, but may not be limited to, hosting events, property upkeep, removal of trash or storm debris, invasive plant removal, and erosion control. However, the suite of covered management activities would be determined by, and specific to, the individual landowner and enrolled property. The “enrolled property” is the area for which the assurances in the agreement apply, and may include the entire farm, select parcels, or portions of parcels adjacent to Dry Creek, as defined by the landowner.

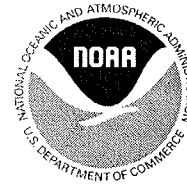
By participating, landowners help enhance vital habitat for fish.  
This gives the species the time and space they need to recover  
their populations to healthy, thriving numbers.



**From:** Public Affairs <publicaffairs@scwa.ca.gov>  
**Sent:** Thursday, March 03, 2016 4:47 PM  
**Subject:** NOAA Fisheries and Sonoma County Water Agency Sign First-Ever Agreement for Collaborative Stewardship of Salmon and Steelhead



*Securing our Future by Investing in our  
Water Resources, Environment & Community*



## **NEWS RELEASE**

**Contact: Ann DuBay/SCWA/707-322-8185  
Jim Milbury/NOAA/562-980-4006  
2016**

**For Immediate Release  
March 3,**

### **NOAA Fisheries and Sonoma County Water Agency Sign First-Ever Agreement for Collaborative Stewardship of Salmon and Steelhead**

*Landmark agreement offers private landowners incentives to conserve federally protected salmon and steelhead*

HEALDSBURG, Calif. – NOAA Fisheries and the Sonoma County Water Agency (Water Agency) today signed a first-ever agreement offering private landowners in the Russian River watershed incentives to restore, enhance, or maintain habitat for listed species their property for the sake of federally protected salmon and steelhead.

The agreement, known as a “Safe Harbor Agreement,” is a mechanism implemented under the federal Endangered Species Act (ESA). The agreement assures landowners that additional restrictions will not be placed upon their property should more of the listed species be attracted to their land as a result of the habitat improvements.

Enrollment in the agreement is completely voluntary. Under the agreement, landowners who participate will not be penalized should there be incidental harm or mortality of fish due to the habitat improvements and will not be restricted in their routine viticulture activities, as long as the agreed upon baseline conditions (*i.e.*, habitat conditions) for the property are maintained.

“This is the first time the Safe Harbor Agreement will be employed for listed salmon and steelhead anywhere in the United States,” said Sam Rauch, NOAA Fisheries Deputy Assistant Administrator for Regulatory Programs. “We’d like to thank the Sonoma County Water Agency for entering into this agreement and hope it will serve as an example for others as well as benefit future generations to come.”

This Agreement is intended to enhance habitat owned almost exclusively by private landowners along six miles of Dry Creek below Warm Springs dam. The habitat improvements are part of the federal requirements for operating the facility.

Constructed by the US Army Corps of Engineers in 1983 for flood control in the winter, the dam also provides water deliveries for Sonoma and Marin Counties throughout the year. The flow rate of these deliveries has significantly

increased compared to historical levels creating challenges for young salmon and steelhead. Voluntary participation by private landowners is key to accessing Dry Creek, as well as constructing the habitat projects that slow the flow rate and provide hiding places for young fish.

Under the Safe Harbor Agreement, the Water Agency will administer the program and enroll qualifying landowners in subsequent site-specific "Cooperative Agreements."

"This historic agreement recognizes the important role that farmers can play in restoring salmon and steelhead to the Russian River watershed," said Efren Carrillo, chair of the Sonoma County Water Agency Board of Directors. "So much of the land surrounding the river and creeks is privately owned, that cooperative landowners are key to successful restoration efforts."

"Farmers who both sustainably manage their land and who participate in the Dry Creek habitat enhancement project will now be recognized for their good work. This agreement will provide a powerful incentive for other landowners to participate in the restoration efforts while responsibly farming," said Sonoma County Water Agency Director James Gore.

The species covered in the Agreement are threatened California Coastal Chinook salmon, Central California Coast (CCC) steelhead, and endangered CCC coho salmon. This year NOAA Fisheries is also highlighting CCC coho salmon in its "Species in the Spotlight" initiative as one of eight species in the nation at most risk of extinction.

"My goal, at the beginning of my tenure at Dry Creek Vineyard was, and continues to be, to leave our land in better condition than which I found it. The salmon in Dry Creek Valley are a crucial measure to the health and vitality of our ecosystem. The Dry Creek Safe Harbor Agreement recognizes the stewardship role played by farmers in helping salmon recovery," said Don Wallace, Proprietor of Dry Creek Vineyard.

Dry Creek has been identified in the NOAA Fisheries CCC Coho Recovery Plan as one of the primary tributaries to the Russian River for bringing the species back to the watershed and increasing their overall population numbers.

The Safe Harbor Policy was finalized in 1999. It provides regulatory incentives for property owners who are willing to voluntarily manage their land to benefit listed fish and wildlife, in ensuring these beneficial actions do not result in new restrictions being placed on the future use of their property. This is especially important because most of the nation's current and potential fish and wildlife habitat is on privately owned land.

NOAA's mission is to understand and predict changes in the Earth's environment, from the depths of the ocean to the surface of the sun, and to conserve and manage our coastal and marine resources. Join us on Twitter, Facebook, Instagram and our other social media channels.

###

For more information on Species in the Spotlight:

[http://www.nmfs.noaa.gov/stories/2015/05/05\\_14\\_15species\\_in\\_the\\_spotlight.html](http://www.nmfs.noaa.gov/stories/2015/05/05_14_15species_in_the_spotlight.html)

For more information on Central California Coast coho

salmon: [http://www.nmfs.noaa.gov/stories/2015/07/spotlight\\_central\\_ca\\_cohosalmon.html](http://www.nmfs.noaa.gov/stories/2015/07/spotlight_central_ca_cohosalmon.html)


Please see our 4-part video series on the impact the drought is having on California's fish, habitat, and landowners:

<http://www.nmfs.noaa.gov/gallery/videos/>



10

## MEMORANDUM

To: Board of Directors  
 From: Chris DeGabriele, General Manager   
 Subject: Technical Advisory Committee Meeting – March 7, 2016  
t:\gm\scwa\tac minutes and agenda\2016\tac cd notes 030716.doc

March 11, 2016

**RECOMMENDED ACTION:** Information Only

**FINANCIAL IMPACT:** None

Agenda included in your packet.

**3. Water Supply Conditions and Temporary Urgency Change Petition**

Pam Jeane reported that both Russian River reservoirs are now encroaching into the flood control pool. Lake Mendocino holds approximately 85,000AF and Lake Sonoma 246,000AF. Corps of Engineers will begin releases from both reservoirs today. SCWA does not yet know what release volume will be made by the Corps. Pam reported that there is no prediction of flooding on the Russian River at this point. The Corps of Engineers is not explicit about targeting the volume in Lake Mendocino at the minor deviation amount which is 5,300AF above the water supply pool. SCWA does know Corps of Engineers intends to be careful about managing the reservoir. PG&E work on the Potter Valley penstock improvements has been completed, but they are having some problem with electrical equipment and are not generating power at this time. Water transfers however are occurring through the Potter Valley Project and supplementing the Lake Mendocino storage. David Keller opined that, 92% of the water in Lake Mendocino was generated from its own watershed. Pam further advised that the SCWA does expect to file a Temporary Urgency Change Petition with the State Board in April to comply with Biological Opinion requirements for lower instream flows this summer.

**4i. Sonoma-Marin Saving Water Partnership**

The table showing total monthly water use relative to 2013 Benchmark was distributed. For January, the collective group water production was just under the conservation standard, however from June 2015 through January, the collective group has reduced production 4% more than the conservation standard.

**4ii. SWRCB Extended Regulation for Urban Water Conservation**

Parties were informed that the State Board did extend the Emergency Urban Water Conservation Regulations through October, however, the Resolution approving the extension indicated that the State Board would again review water supply conditions in late April, early May to determine if the Emergency Regulations would continue.

**4iii. Take It From the Tap**

Parties were informed that a regional "Take it From the Tap" campaign will kick off in Santa Rosa on March 15<sup>th</sup>. Each agency will get the available outreach materials to promote drinking water from public water supplies rather than bottled water. NMWD hopes to display an outreach banner on the equipment storage shed adjacent to Highway 101.

**5. SCWA Draft FY2016/17 Budget (Attached)**

Damien O'Bid from the City of Cotati is Chair of the TAC Budget Subcommittee could not attend today's meeting. Linda Reed from City of Santa Rosa also on the budget

subcommittee introduced Mike Gossman who made the presentation on the budget. Linda advised that the budget subcommittee consensus is to support SCWA's proposed budget. She advised that SCWA is doing a really good job and working with the water contractors to temper water rate increases which are driven by the prescriptive calculation in the Restructured Agreement. Mike Gossman advised that the denominator in the water rate calculation this year is only 40,520 AF, wherein the numerator is \$32.7M. The denominator reflects a 20% decline in water deliveries from last year's calculation. \$11.8M in grants, fund balance transfers and bond proceeds has helped to temper the numerator. For NMWD the purchased water rate is proposed at \$829.97/AF, a 6.6% increase. The TAC unanimously recommended the SCWA FY16/17 Budget for approval to the WAC at a special meeting to be held on April 4<sup>th</sup>. SCWA staff will make a presentation to the NMWD Board on April 5<sup>th</sup>.

**6. Biological Opinion Status Update**

Pam Jeane reviewed the BO Update included in your agenda packet.



## State Water Resources Control Board Conservation Standard Tracking for the Sonoma-Marín Saving Water Partnership

**Table 1: Monthly Water Use Relative to 2013 Benchmark**

Water Retailer	January 2016 (Gallons)	2013 Benchmark (Gallons)	Relative to 2013 Benchmark	Conservation Standard	January 2016 GPCD*
Cal Am	14,630,710	17,542,000	17%	25%	52
Cotati	14,956,561	20,365,688	27%	20%	66
Marin Municipal	444,353,233	505,656,244	12%	20%	76
North Marin	130,926,932	151,000,000	13%	24%	69
Petaluma	156,408,480	172,545,662	9%	16%	82
Rohnert Park	91,987,737	111,000,000	17%	16%	68
Santa Rosa	321,940,788	438,665,146	27%	16%	61
Sonoma	28,657,944	37,939,859	24%	28%	80
Valley of the Moon	41,513,417	56,870,850	27%	20%	59
Windsor	55,314,185	64,575,281	14%	16%	65
<b>SMSWP Total</b>	<b>1,300,689,987</b>	<b>1,579,462,468</b>	<b>18%</b>	<b>19%</b>	<b>70</b>

\* GPCD is provided as information only

**Table 2: Aggregate June 2015 to Current Month Relative to 2013 Benchmark**

Water Retailer	Aggregate June 2015 to Date (Gallons)	2013 Benchmark (Gallons)	Relative to 2013 Benchmark	Conservation Standard
Cal Am	163,248,088	218,677,000	25%	25%
Cotati	173,832,553	230,604,753	25%	20%
Marin Municipal	5,073,985,588	6,400,963,520	21%	20%
North Marin	1,645,568,274	2,309,000,000	29%	24%
Petaluma	1,707,768,798	2,223,475,200	23%	16%
Rohnert Park	969,484,929	1,177,000,000	18%	16%
Santa Rosa	3,751,084,610	5,078,878,564	26%	16%
Sonoma	387,405,688	531,389,709	27%	28%
Valley of the Moon	533,381,266	750,667,191	29%	20%
Windsor	691,268,458	901,959,683	23%	16%
<b>SMSWP Total</b>	<b>15,097,028,252</b>	<b>19,624,782,358</b>	<b>23%</b>	<b>19%</b>

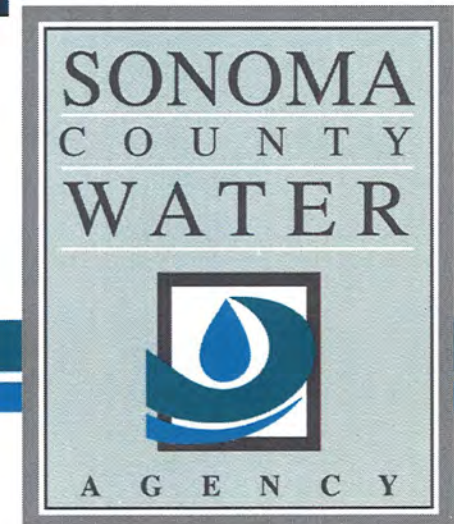


# FY 16-17 Proposed Budget and Rates Water Transmission System



Technical Advisory Committee Meeting  
March 7, 2016

[www.sonomacountywater.org](http://www.sonomacountywater.org)



# Proposed Rates for FY 16-17

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	40,524	40,524	40,524
O&M	\$547.42	\$547.42	\$547.42
Water Management Planning	\$3.04	\$3.04	\$3.04
Watershed Planning & Restoration	\$82.67	\$82.67	\$82.67
Recycled Water and Local Supply	\$16.41	\$16.41	\$16.41
Water Conservation	\$41.93	\$41.93	\$41.93
<b>Total O&amp;M</b>	<b>\$691.47</b>	<b>\$691.47</b>	<b>\$691.47</b>
Storage & Common Bond/Loan Charges	\$95.62	\$95.62	\$95.62
Sonoma Aqueduct Bond/Loan Charge			\$75.53
<b>Prime Contractors</b>	<b>\$787.09</b>	<b>\$787.09</b>	<b>\$862.62</b>
<b><u>Discretionary Charges</u></b>			
Capital Charges - <i>to build fund balance for future projects</i>	\$19.50	\$19.50	\$32.00
Local Recycled Water Tier 2 Program	\$0.00	\$0.00	\$0.00
<b>Prime Contractors</b>	<b>\$19.50</b>	<b>\$19.50</b>	<b>\$32.00</b>
<b>Total Prime Contractors</b>	<b>\$806.59</b>	<b>\$806.59</b>	<b>\$894.62</b>
Total Overall Increase:	5.98%	5.98%	6.94%



# Rate Setting Calculation (EXAMPLE)

\$32,700,000

\$807/ Acre Foot

40,524

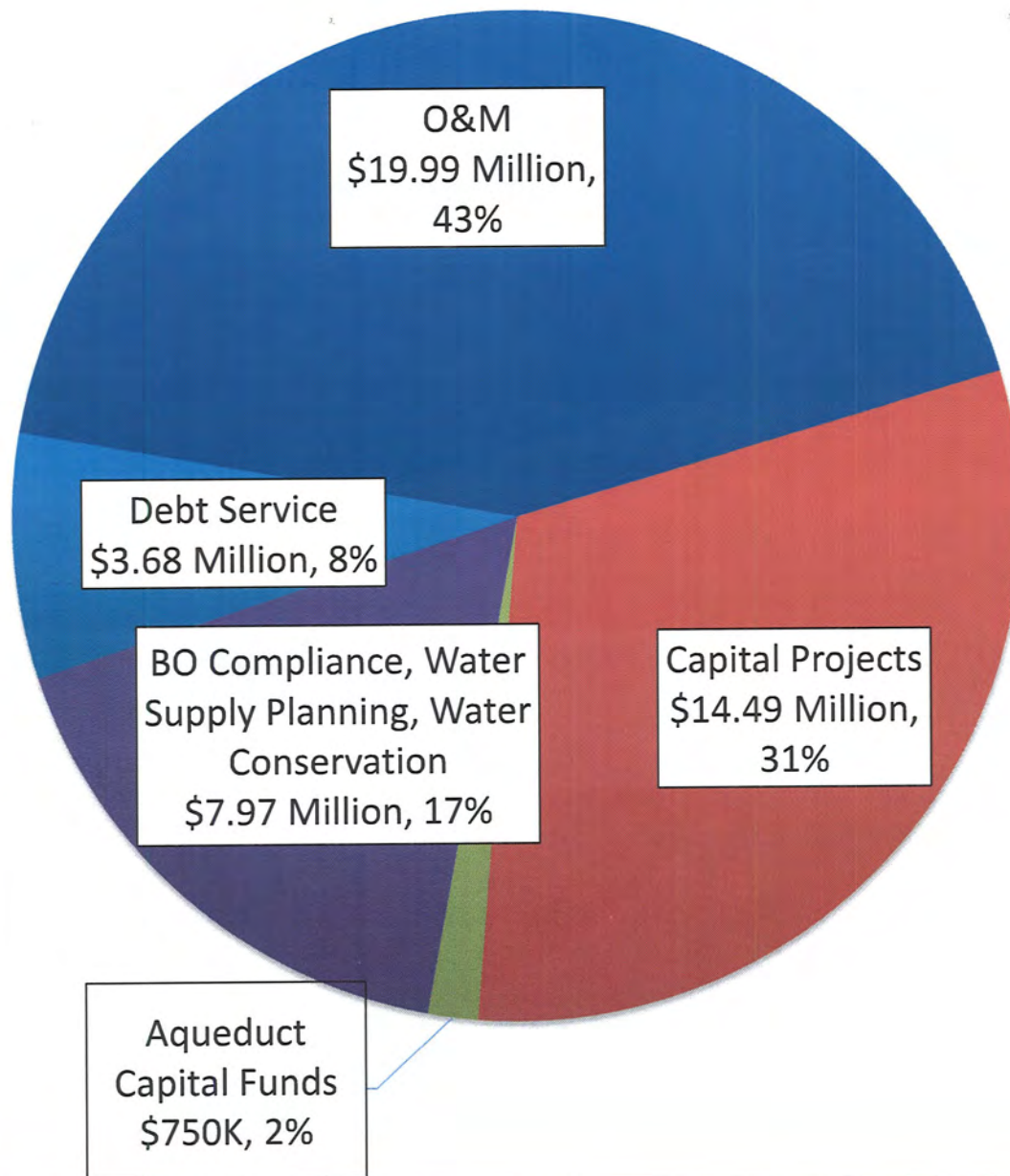
Water Sold = Lesser of:

48,930

or

40,524

## FY 16-17 Expenditures



Grants, Use of  
Fund Balance, and  
Bond Proceeds  
\$11.8 Million



# Expenditures Compared to FY 15-16

	FY 15-16 Budget	FY 16-17 Budget	Change
Operations and Maintenance	\$21.79 Million	\$19.99 Million	(\$1,800,000)
Capital Projects	\$8.57 Million	\$14.49 Million	\$5,920,000
BO Compliance, Water Supply Planning, Water Conservation	\$9.36 Million	\$7.97 Million	(\$1,390,000)
Debt Service	\$3.21 Million	\$3.68 Million	\$480,000
Aqueduct Capital Contribution	\$850,000	\$750,000	(\$100,000)
Totals	\$43.78 Million	\$46.88 Million	\$3,110,000

<b>Grants, Use of Fund Balance, and Bond Proceeds</b>	<b>\$6,073,000</b>	<b>\$11,820,000</b>	<b>\$5,747,000</b>
---	--------------------	---------------------	--------------------



# Historic Drought

## FY 15-16

Cost of  
Operations  
and Maintenance

40,524

=

Cost of Water  
(Dollars per  
acre-foot)

Water Sold = Lesser of:

Average of last  
3 years annual  
water  
deliveries

or

Last 12 months  
of actual water  
deliveries

Budgeted

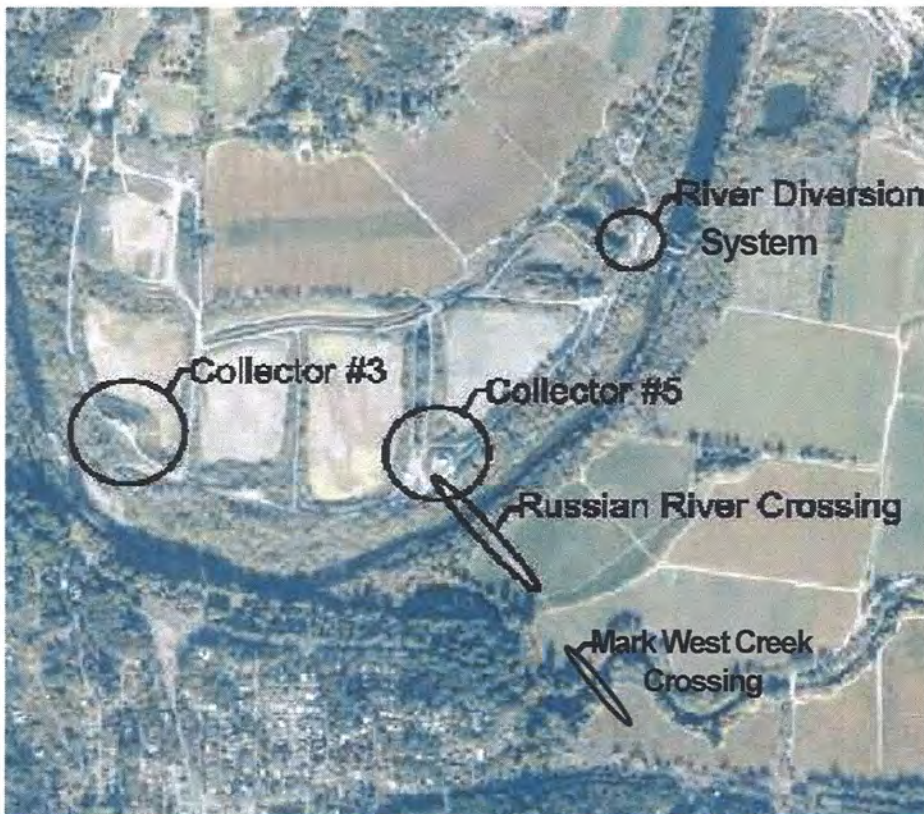
**\$11.8 million**

in Grants, Use of Fund  
Balance, and Bond  
Proceeds to soften impact  
to rate payers

Rate increase went  
from  
>20% down to 5.98%

# Capital Projects

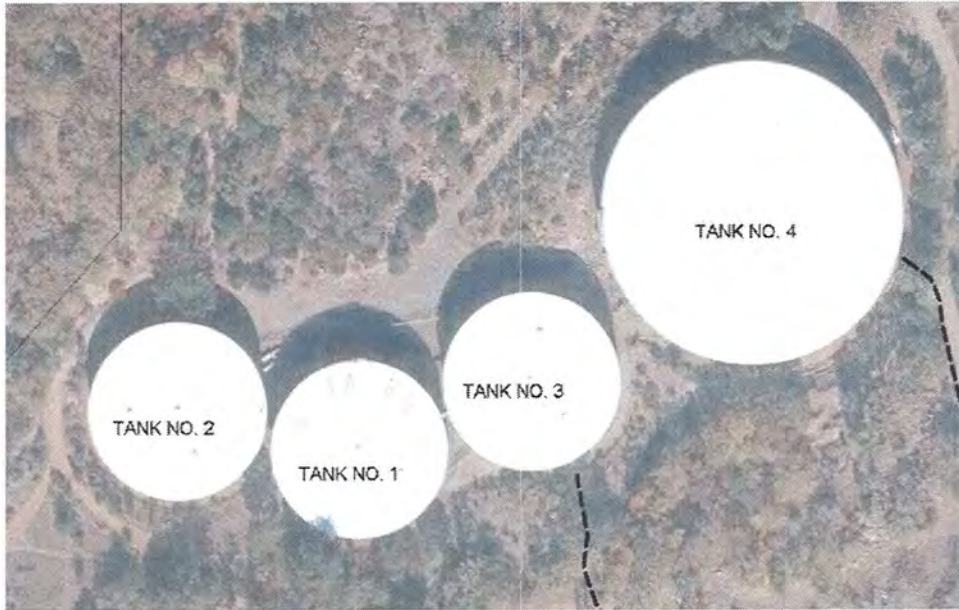
## Russian River and Mark West Creek Crossings - Hazard Mitigation Projects



- Replace existing aqueducts with new aqueducts that will be 18 to 30 feet deeper
- \$5.76 million in FEMA grants offsetting design and construction costs
- FY16-17 \$10.9 million to complete the projects



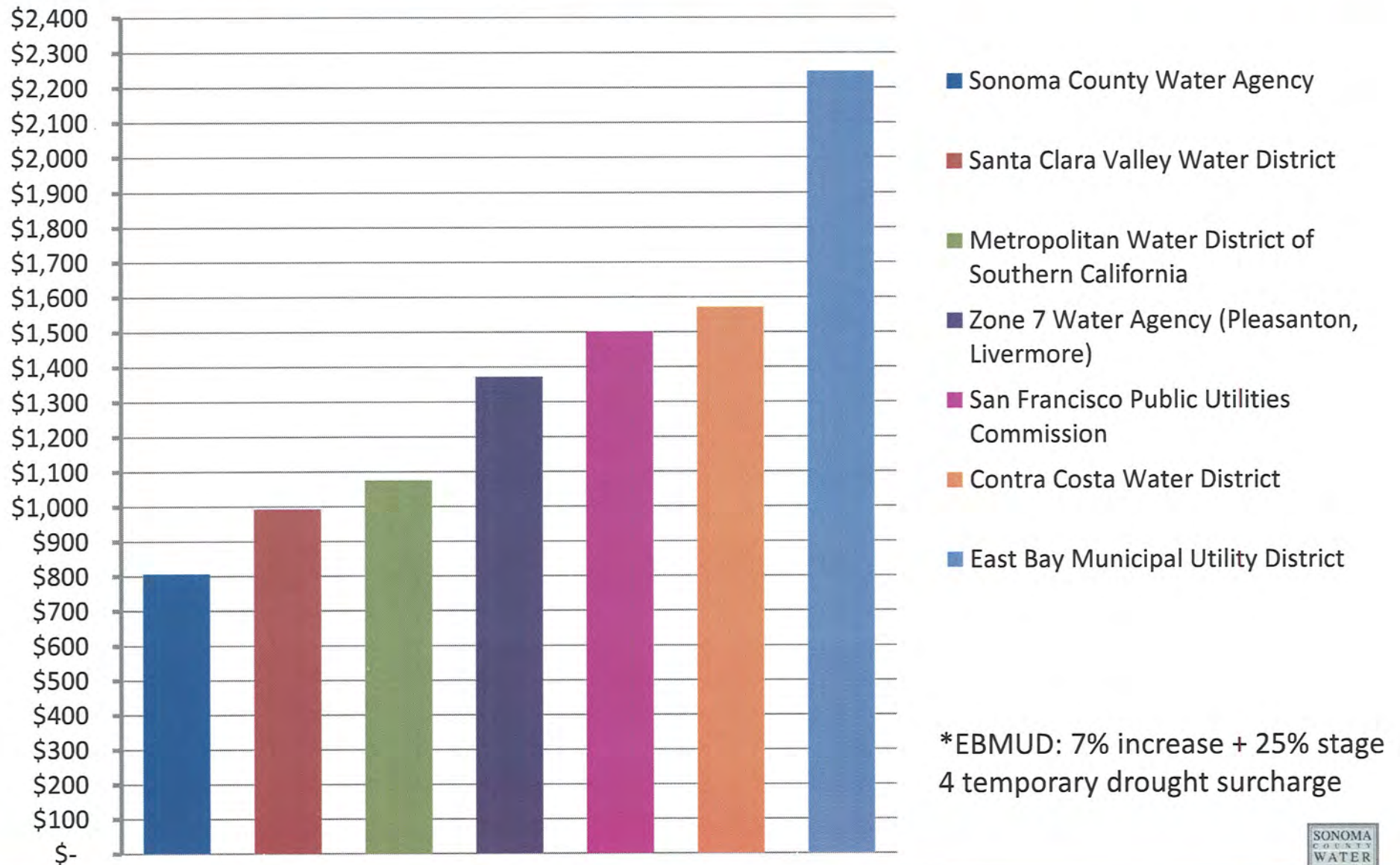
# Capital Projects



## Ralphine Tanks Flow Through Conversion Project

- Pipeline reconfiguration to create a flow through system for water quality purposes
- Provide surge protection for the Sonoma Booster Pump Station and eliminate the need for an upstream surge tank
- FY16-17 Budget includes \$1,155,000 for this work

# 2016 Wholesale Water Rates Per Acre-Foot





# Proposed Rates for FY 16-17

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	40,524	40,524	40,524
O&M	\$547.42	\$547.42	\$547.42
Water Management Planning	\$3.04	\$3.04	\$3.04
Watershed Planning & Restoration	\$82.67	\$82.67	\$82.67
Recycled Water and Local Supply	\$16.41	\$16.41	\$16.41
Water Conservation	\$41.93	\$41.93	\$41.93
<b>Total O&amp;M</b>	<b>\$691.47</b>	<b>\$691.47</b>	<b>\$691.47</b>
Storage & Common Bond/Loan Charges	\$95.62	\$95.62	\$95.62
Sonoma Aqueduct Bond/Loan Charge			\$75.53
<b>Prime Contractors</b>	<b>\$787.09</b>	<b>\$787.09</b>	<b>\$862.62</b>
<b><u>Discretionary Charges</u></b>			
Capital Charges - <i>to build fund balance for future projects</i>	\$19.50	\$19.50	\$32.00
Local Recycled Water Tier 2 Program	\$0.00	\$0.00	\$0.00
<b>Prime Contractors</b>	<b>\$19.50</b>	<b>\$19.50</b>	<b>\$32.00</b>
<b>Total Prime Contractors</b>	<b>\$806.59</b>	<b>\$806.59</b>	<b>\$894.62</b>
Total Overall Increase:	5.98%	5.98%	6.94%



# Next Steps

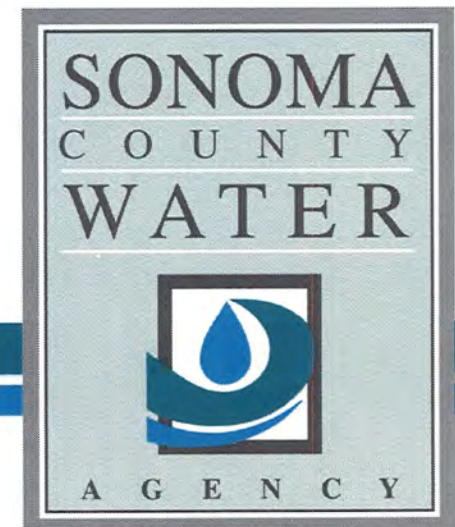
- **Presentation to TAC and vote on March 7th (TODAY)**
- **City Councils/ District Boards as requested during March.**
- **Vote by WAC on Monday, April 4th**
- **Adoption by the Board of Directors – by April 30**

# FY 16-17 Proposed Budget and Rates Water Transmission System

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## Water Transmission FY 2016-2017 Draft Budget and Rates

The preliminary draft proposed FY 16-17 rates are shown in the table below:

Charge / Aqueduct	Santa Rosa	Petaluma	Sonoma
Deliveries (Acre-Feet)	40,524	40,524	40,524
O&M	\$547.42	\$547.42	\$547.42
Water Management Planning	\$3.04	\$3.04	\$3.04
Watershed Planning & Restoration	\$82.67	\$82.67	\$82.67
Recycled Water and Local Supply	\$16.41	\$16.41	\$16.41
Water Conservation	\$41.93	\$41.93	\$41.93
<b>Total O&amp;M</b>	<b>\$691.47</b>	<b>\$691.47</b>	<b>\$691.47</b>
Storage & Common Bond/Loan Charges	\$95.62	\$95.62	\$95.62
Sonoma Aqueduct Bond/Loan Charge			\$75.53
<b>Prime Contractors</b>	<b>\$787.09</b>	<b>\$787.09</b>	<b>\$862.62</b>
<b><u>Discretionary Charges</u></b>			
Capital Charges - to build fund balance for future projects	\$19.50	\$19.50	\$32.00
Local Recycled Water Tier 2 Program (LRT2)	\$0.00	\$0.00	\$0.00
<b>Prime Contractors</b>	<b>\$19.50</b>	<b>\$19.50</b>	<b>\$32.00</b>
<b>Total Prime Contractors</b>	<b>\$806.59</b>	<b>\$806.59</b>	<b>\$894.62</b>
Total Overall Increase:	5.98%	5.98%	6.94%

### SUMMARY

- **Deliveries: (Budget Packet Pages 8-13):**
  - These FY16-17 Rates are based on budgeted deliveries of **40,524 Acre-Feet (AF)**. This is based on the Restructured Agreement for Water Supply which states that rates be calculated using the lesser of: the average of the last 3 years of annual deliveries (48,930 AF) or the last 12 months of actual water deliveries (40,524 AF).
  - Deliveries for Calendar Year (CY) 2015 were 20% less than CY 2014.
- **Operations and Maintenance (O&M) – Water Transmission O&M Fund (Budget Packet Pages 14-21):**
  - 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	\$40.20	7.9%	Routine services and supplies are decreasing 8.3%. Factors affecting the increase are described below and include a decrease in deliveries and revenues.
Revenue	(\$5,699,409)	-14.2%	Decrease attributable to reduced budgeted deliveries.
Expenditures	(\$5,727,030)	-12.4%	8.3% of decrease is routine services and supplies; remaining decrease attributable to reduced operating transfer for pay-go capital projects offset by increase in non-cash depreciation expense.



Factors affecting the O&M rate:

O&M Fund Expenditures	Increase (Decrease) in Dollars	Percent Change	Description
Labor	\$355,000	3.0%	Increase is per negotiated labor agreements.
Power	(\$500,000)	-10.4%	Expected to increase over FY14-15 actuals (\$4.04 million) but decrease over FY15-16 budget (\$4.8 million) due to decreased budgeted deliveries resulting from the drought.
Chemicals	(\$90,000)	-12.2%	Expected to decrease due to reduced budgeted deliveries resulting from the drought.
Testing/Analysis	\$30,000	23.1%	Increase due to regulatory compliance and to align more closely with FY14-15 actuals.
Contract Services	(\$648,000)	-42.3%	In response to reduced deliveries, Agency is working to reduce these costs.
Maintenance - Equipment	(\$284,000)	-34.9%	In response to reduced deliveries, Agency is working to reduce these costs.
Small Tools - Instruments	(\$20,000)	-12.5%	In response to reduced deliveries, Agency is working to reduce these costs.
Operating Transfers	(\$4,554,000)	-24.9%	Operating Transfers (OT's) move revenue generated by rates into respective funds and maintain appropriate fund balance. Majority of OT's do not directly impact rates. Decrease attributable to Bond Proceeds and Grant funds.

• **Subfunds: (Budget Packet Pages 22-34):**

- Subfund rates are calculated by dividing subfund expenditures minus grant revenue by budgeted water deliveries.
- Water Management Planning:
  - Expenditures are for Urban Water Management Planning (UWMP) which is required to be updated every five years. In intervening years, the Water Agency typically incurs minimal costs to review regulatory requirements and revise the scope of work accordingly but will maintain modest rate increases to smooth the rate and soften impact to rate payers.

Water Management Planning	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	(\$0.88)	-22.4%	FY15-16 rate: \$3.92; rate needed for Urban Water Management Plan (UWMP) update. Maintaining modest rate increase in intervening five year period to soften impact to rate payers.
Revenue	(\$80,462)	-37.7%	Decrease due to reduced FY16-17 budgeted water deliveries as compared to FY15-16 budget.
Expenditures	(\$250,000)	-90.9%	Decrease attributable to finalizing UWMP due July 1, 2016.

○ Watershed Planning and Restoration:

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

Watershed Planning and Restoration	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$3.00	3.8%	FY15-16 rate: \$79.67. FY16-17 use of \$975,000 in fund balance to reduce rate increase.
Revenue	(\$734,395)	-17.1%	Decrease due to reduced FY16-17 budgeted water deliveries as compared to FY15-16 budget.
Expenditures	(\$105,500)	-2.3%	Decrease due to progress on draft and final flow EIR, and climate adaption projects, offset by increases for initiation of Dry Creek Habitat Enhancement miles 4, 5, and 6 design.

○ Recycled Water and Local Supply:

- Expenditures are for planning, design, and implementation of recycled water and local supply projects including 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	(\$15.17)	-48.0%	FY15-16: \$15.58 per AF for groundwater management planning; \$16 per AF for LRT2 projects per TAC. FY16-17: TAC has not included LRT2 funding in the budget.
Revenue	(\$1,053,744)	-56.2%	Decrease due to reduced FY16-17 budgeted water deliveries as compared to FY15-16 budget, no revenue requirement for LRT2 Projects, and reduction in planned water contractor reimbursements for Groundwater Management Planning Projects.
Expenditures	(\$1,341,233)	-63.3%	Budget is to implement Santa Rosa, Petaluma and Sonoma Valley Groundwater Management Planning Projects. No budget submitted by TAC for LRT2 Projects.

○ Water Conservation:

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

Water Conservation	Increase (Decrease) in Dollars	Percent Change	Description
Rate per AF	\$1.40	3.4%	FY15-16 rate: \$40.53. Rate increase consistent with CPI and reduced deliveries due to drought. FY16-17 use of \$139,000 in fund balance to reduce rate increase.
Revenue	\$83,860	3.4%	Increase due to Prop 84 grant funds and funding agreements with water contractors compared to FY15-16 budget.
Expenditures	\$306,680	13.4%	Implement water use efficiency, outreach and education projects, address ongoing water conservation needs given continued drought conditions, pass through grant funds to water contractors and other partners.

• **Storage, Common, and Sonoma Bond/Loan Charges: (Budget Packet Pages 45-54):**

- The rates are calculated by dividing the annual debt service and reserve requirements (2012A and 2015A Water Revenue Bonds) by water deliveries. The rate increases shown below are attributed to the decrease in deliveries over the FY15-16 budget, and the new money financing (Water Revenue Bonds 2015A) offset by the decrease resulting from refinancing the Water Revenue Bonds 2006A.

Storage and Common Bond/Loan Charges	Increase (Decrease) in Dollars	Percent Change	Description
Storage Bond/Loan Charge	\$11.13	45.0%	FY15-16 rate: \$24.75. Increase resulting from new money financing; Water Revenue Bonds 2015 offset by decrease resulting from refinancing Water Revenue Bonds 2006.
Common Bond/Loan Charge	\$5.86	10.9%	FY15-16 rate: \$53.88. Increase resulting from new money financing; Water Revenue Bonds 2015 offset by decrease resulting from refinancing Water Revenue Bonds 2006.
Sonoma Aqueduct Bond/Loan Charge	\$14	21.8%	FY15-16 rate: \$62. Sonoma Aqueduct pays an additional revenue bond charge for the bonds associated with the Eldridge-Madrone Pipeline Project. Increase resulting from new money financing; Water Revenue Bonds 2015 offset by decrease resulting from refinancing Water Revenue Bonds 2006.

- **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 minimize rate spikes.
  - \$19.50 per AF for Santa Rosa and Petaluma Aqueducts
  - \$32.00 per AF for Sonoma Aqueduct.
  - The FY15-16 budget included a rate per AF of \$19.50 for the Santa Rosa and Petaluma Aqueducts and \$33 for the Sonoma Aqueduct to increase fund balance for known needed future capital projects.
- **Overall Draft Proposed Rate Increases: (Budget Packet Pages 1-7):**
  - 5.98% (Santa Rosa and Petaluma Aqueducts)
  - 6.94% (Sonoma Aqueduct)
  - This is the first draft of the budget with a rate increase that is less than one-third of other Bay Area water agencies who are seeking 20 to 30 percent or more in water rate hikes. Generally, everything else held equal, a 20% decrease in deliveries, would result in a rate increase of 20%. Given the significant decrease in deliveries and revenues, every effort has been made to prepare a budget that allows us to meet the operations, maintenance, capital, and regulatory demands of the system while maintaining fund balances within the prudent reserve policy. Factors working in our favor include \$5.5M in grant funds to offset capital costs, \$13.6M in bond proceeds for capital projects, and \$1.5M in net present value savings from refinancing the Water Revenue Bonds 2006A bolstered by the Water Agency's AA+ credit rating. This budget has been developed to facilitate collaborative discussions in order to achieve a budget and rate package that is responsible and financially sound.

List of Capital Projects - next page.



**Capital Projects**
**(Budget Packet Pages 36-43):**

<b>Project</b>	<b>Category</b>	<b>Amount</b>
Petaluma Aq Relocation – Kastania (Caltrans Project)	Storage	22,000
Ralphine Tanks Flow Thru Conversion	Storage	1,155,000
LHMP - Program Design (for Future FEMA Funds)	Santa Rosa AQ	10,000
LHMP - Program Design (for Future FEMA Funds)	Petaluma AQ	10,000
Marin Sonoma Narrows Segment C2	Petaluma AQ	20,000
LHMP - Program Design (for Future FEMA Funds)	Sonoma AQ	10,000
SBS Electrical Upgrade and Pumping Reliability	Sonoma AQ	165,000
SBS Storage Building	Sonoma AQ	175,000
Sonoma AQ Spring Creek & Bennett Valley Fault Crossing	Sonoma AQ	50,000
Caisson 5 Motor & Discharge Head Replacements	Common	500,000
Isolation Valves (FEMA Funds - \$1.9M)	Common	275,000
LHMP Program Design	Common	25,000
Mirabel Chlorine Building Water Line	Common	150,000
Mirabel Chlorine Lines Replacement	Common	105,000
Mirabel Dam Bladder Replacement	Common	400,000
MW Creek Crossing (FEMA Funds - \$2.8M)	Common	4,818,000
RDS Motor Control Center Replacement	Common	83,000
RDS Seismic Retrofit	Common	275,000
RR Crossing (FEMA Funds - \$2.9M)	Common	6,100,000
System-wide Meter Replacements	Common	100,000
Wohler Motor Replacements	Common	25,000
Wohler Road Fiber Optic Cable Relocation	Common	15,000
	<b>TOTAL</b>	<b>14,488,000</b>
	Storage	1,177,000
	AQ's	440,000
	Common	12,871,000
		<b>14,488,000</b>

**Sonoma County Water Agency  
FY16-17 Water Transmission Budget and Rates**

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## FY 16-17 Prime Contractor Rates Summary

	CHARGE PER ACRE FOOT:						
	Santa Rosa	Petaluma	Sonoma				Percent
	Aqueduct	Aqueduct	Aqueduct	FY15-16			Change
				SR	Pet	Son	
O&M Charge [4.2]	547.42	547.42	547.42	\$507.22	\$507.22	\$507.22	7.93%
Water Management Planning Sub-charge	3.04	3.04	3.04	\$3.92	\$3.92	\$3.92	-22.44%
Watershed Planning/Restoration Sub-charge	82.67	82.67	82.67	\$79.67	\$79.67	\$79.67	3.76%
Recycled Water & Local Supply Sub-charge	16.41	16.41	16.41	\$15.58	\$15.58	\$15.58	5.33%
Water Conservation Sub-charge [4.16]	41.93	41.93	41.93	\$40.53	\$40.53	\$40.53	3.45%
O&M Charge	691.47	691.47	691.47	\$646.92	\$646.92	\$646.92	6.89%
Storage and Common Bond & Loan Charge	95.62	95.62	95.62	\$ 78.63	\$ 78.63	\$ 78.63	21.61%
Sonoma Aqueduct Bond Charge			75.53			\$ 62.00	21.8%
PRIME CONTRACTORS	\$787.09	\$787.09	\$862.62	\$ 725.55	\$725.55	\$787.55	FY15-16 incre: 4.16%; 5.46%
Capital Charges - to build fund balance for future projects	19.50	19.50	32.00	\$ 19.50	\$ 19.50	\$ 33.00	0%
Local Recycled Water Tier 2 Program	0.00	0.00	0.00	\$16.00	\$ 16.00	\$ 16.00	-100%
PRIME CONTRACTORS	19.50	19.50	32.00	\$ 35.50	\$ 35.50	\$ 49.00	-100%
				2.56%	2.56%	2.31%	
TOTAL PRIME CONTRACTORS	\$806.59	\$806.59	\$894.62	\$761.05	\$761.05	\$836.55	
Increase from FY 15-16	5.98%	5.98%	6.94%	4.16%	4.16%	5.46%	

WATER TRANSMISSION SYSTEM  
FY 16-17 WATER CHARGES PER ACRE-FOOT  
FOR PRIME CONTRACTORS

	SANTA ROSA AQUEDUCT	% INCR. (DECR.)	PETALUMA AQUEDUCT	% INCR. (DECR.)	SONOMA AQUEDUCT	% INCR. (DECR.)
2016/17	806.59	5.98%	806.59	5.98%	894.62	6.94%
2015/16	761.05		761.05		836.55	
2014/15	730.68		730.68		793.24	
2013/14	705.30		705.30		768.75	
2012/13	672.03		672.03		740.34	
2011/12	634.11		634.11		703.33	
2010/11	603.92		603.92		674.47	
2009/10	564.78		564.78		622.11	
2008/09	471.13		511.13		486.22	
2007/08	441.70		461.70		453.49	
2005/06	412.68		432.68		424.53	
2004/05	402.51		422.51		414.42	
2003/04	393.89		413.89		407.95	
2002/03	387.49		397.90		387.43	
2001/02	383.29		384.02		373.38	
2000/01	330.76		331.61		320.74	

WATER TRANSMISSION SYSTEM  
FY 16-17 REVENUE SUMMARY CHART

WATER CUSTOMER	FY 16-17 Budgeted Water Use (Acre- Feet)	FY 15-16 Rate \$/Acre-Foot	FY 16-17 Proposed Rate \$/Acre-Foot	Dollar Change	Percent Change
Santa Rosa Aqueduct	15,535	\$761.05	\$806.59	\$45.54	5.98%
Petaluma Aqueduct	9,587	761.05	806.59	\$45.54	5.98%
Sonoma Aqueduct	3,539	836.55	894.62	\$58.07	6.94%
North Marin Water Dist.	5,002	778.46	829.97	\$51.51	6.62%
Marin Municipal – Third Off Peak	4,300	926.54	982.54	\$56.00	6.04%
Marin Municipal – Supplemental	831	926.54	982.54	\$56.00	6.04%
Forestville Aqueduct	377	741.55	787.09	\$45.54	6.14%
Wholesale/Municipal	853	1,003.86	1073.54	\$69.68	6.94%
Surplus	39	795.50	829.76	\$34.26	4.31%
Windsor	460	913.26	967.91	\$54.65	5.98%
<b>TOTAL</b>	40,524				



**SONOMA COUNTY WATER AGENCY RATES FOR WATER DELIVERIES IN FY 16-17**

**[ X ] ESTIMATED    [ ] OFFICIAL**  
**Approved by Board of Directors on**

**CHARGE PER ACRE FOOT:**

	Santa Rosa Aqueduct	Petaluma Aqueduct	Sonoma Aqueduct
<b>PRIME CONTRACTORS</b>			
O&M Charge [4.2]	\$547.42	\$547.42	\$547.42
Water Management Planning Sub-charge [4.13]	\$3.04	\$3.04	\$3.04
Watershed Planning/Restoration Sub-charge [4.14]	\$82.67	\$82.67	\$82.67
Recycled Water & Local Supply Sub-charge [4.15]	\$16.41	16.41	16.41
Water Conservation Sub-charge [4.16]	\$41.93	\$41.93	\$41.93
O&M Charge	\$691.47	\$691.47	\$691.47
<b>Bond &amp; Loan Charges - to pay for existing debt service</b>			
Storage Facilities Capital Charge [4.7]	35.88	35.88	35.88
Common Facilities Capital Charge [4.8]	59.74	59.74	59.74
Sonoma Aqueduct Facilities Capital Charges [4.6 b]			75.53
Total Bond & Loan Charges	\$95.62	\$95.62	\$171.15
<b>Discretionary:</b>			
<b>Aqueduct Capital Charges - to build fund balance for future projects</b>			
Aqueduct Facilities Capital Charges [4.6 e]	19.50	19.50	32.00
LRT2 - included in Recycled Water & Local Supply Sub-Charge above.			
<b>TOTAL PRIME CONTRACTORS</b>	<b>\$806.59</b>	<b>\$806.59</b>	<b>\$894.62</b>
Charge without LRT2 and voluntary AQ Capital Charge	\$787.09	\$787.09	\$862.62
<b>OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES</b>			
<b>(WATER CO'S &amp; PUBLIC AGENCIES)</b>			
O&M Charge	\$691.47	\$691.47	\$691.47
Capital Charges	95.62	95.62	171.15
Aqueduct Facilities Capital Charge	\$286.45	\$286.45	\$210.92
<b>TOTAL OTHER AGENCY CUSTOMERS/WHOLESALE CHARGES (4.12)</b> (120% OF HIGHEST PRIME)	<b>\$1,073.54</b>	<b>\$1,073.54</b>	<b>\$1,073.54</b>
<b>FORESTVILLE</b>			
O&M Charge [4.2] *	\$547.42		
Water Management Planning Sub-charge [4.13]	3.04		
Watershed Planning/Restoration Sub-charge [4.14]	82.67		
Recycled Water & Local Supply Sub-charge [4.15]	16.41		
Water Conservation Sub-charge [4.16]	41.93		
O&M Charge	\$691.47		
<b>Bond &amp; Loan Charges - to pay for existing debt service</b>			
Aqueduct Facilities Capital Charges [4.6]	0.00		
Storage Facilities Capital Charge [4.7]	35.88		
Common Facilities Capital Charge [4.8]	59.74		
Total Capital Charges	\$95.62		
<b>TOTAL FORESTVILLE</b>	<b>\$787.09</b>		
* Forestville Water District exempt from Santa Rosa Aqueduct sub-charge from FY 06/07 to FY 16/17 [4.12].			
<b>NORTH MARIN WATER DISTRICT</b>			
O&M Charge		\$691.47	Note: N. Marin pays bond and loan charge in lieu of Capital Charge.
North Marin Bond & Loan Charge [4.9]		51.27	
Russian River Conservation Charge [4.18 (a)]		74.27	
Russian River Projects Charge [4.18 (b)]		12.96	
<b>TOTAL NORTH MARIN WATER DISTRICT</b>		<b>829.97</b>	
<b>THIRD OFF-PEAK (MARIN MUNICIPAL)</b>			
Highest Prime on SR and PET AQ x 1.11		\$895.31	
Russian River Conservation Charge		74.27	
Russian River Projects Charge		12.96	
<b>TOTAL THIRD OFF-PEAK</b>		<b>\$982.54</b>	
<b>SUPPLEMENTAL (MARIN MUNICIPAL)</b>			
Highest Prime on SR and PET AQ x 1.11		\$895.31	
Capital Charge [4.11 (b)]		0.00	
Russian River Conservation Charge		74.27	
Russian River Projects Charge		12.96	
<b>TOTAL SUPPLEMENTAL</b>		<b>\$982.54</b>	
<b>SURPLUS</b>			
Non-Municipal / Municipal [4.11 (a)] (120% of O&M Charge)	\$829.76	\$829.76	\$829.76
<b>Town of Windsor</b>			
		\$967.91	
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)].			
	\$967.91		

**Town of Windsor**

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)].

\$967.91

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

**FY 2016-17 BUDGET**  
**SONOMA COUNTY WATER AGENCY**  
*Operations and Maintenance Rate Computation*

**O & M REVENUE REQUIREMENT**

FY 16-17 ESTIMATED FISCAL YEAR EXPENDITURES \$40,311,704

**LESS:**

DepreciationAmortization	6,597,903
Investment Income, Interest on Pooled Cash, Charges for Services	57,000
Power Sales	800,000
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	10,010,829

REVENUE REQUIREMENT (Net Expenditures)

\$22,845,972

**O & M ACRE FOOT BASE**

DELIVERIES: 40,523.5

**LESS:**

Marin Municipal	5,131.1
Surplus (Irrigation)	39.5

TOTAL BASE DELIVERIES

35,353.0

**O & M RATE COMPUTATION:**

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

$$= \frac{22,845,972 - (4,300.00 \times 680.77) - (831.05 \times 680.77)}{40,523.5 - 39.5 - 5,131.1}$$

\* = \$547.42

**FY 16-17**  
**Proposed Water Rates**

	<b><u>FY 15-16</u></b>	<b><u>FY 16-17</u></b>	
	<b>(Actual)</b>	<b>(Proposed)</b>	<b>% Change</b>
O&M Charge	507.22	547.42	7.93%
Water Management Planning Sub-Charge	3.92	3.04	-22.44%
Watershed Planning/Restoration Sub-Charge	79.67	82.67	3.76%
Recycled Water Sub-Charge	31.58	16.41	-48.04%
Water Conservation Sub-Charge	40.53	41.93	3.45%
<b>Total O&amp;M Charge</b>	<b>662.92</b>	<b>691.47</b>	<b>4.31%</b>

**Santa Rosa Aqueduct Rate**

O&M Charge	662.92	691.47	4.31%
Aqueduct Facilities Capital Charges [4.6 e]	19.50	19.50	0.0%
Storage Facilities Capital Charge [4.7]	24.75	35.88	44.97%
Common Facilities Capital Charge [4.8]	53.88	59.74	10.88%
<b>TOTAL</b>	<b>761.05</b>	<b>806.59</b>	<b>5.98%</b>

**Petaluma Aqueduct Rate**

O&M Charge	662.92	691.47	4.31%
Aqueduct Facilities Capital Charges [4.6 e]	19.50	19.50	0.0%
Storage Facilities Capital Charge [4.7]	24.75	35.88	44.97%
Common Facilities Capital Charge [4.8]	53.88	59.74	10.88%
<b>TOTAL</b>	<b>761.05</b>	<b>806.59</b>	<b>5.98%</b>

**Sonoma Aqueduct Rate**

O&M Charge	662.92	691.47	4.31%
Aqueduct Facilities Capital Charges [4.6 e]	33.00	32.00	-3.0%
Storage Facilities Capital Charge [4.7]	24.75	35.88	44.97%
Common Facilities Capital Charge [4.8]	53.88	59.74	10.88%
Sonoma Aqueduct Facilities Capital Charges	62.00	75.53	21.82%
<b>TOTAL</b>	<b>836.55</b>	<b>894.62</b>	<b>6.94%</b>



**SONOMA COUNTY WATER AGENCY**  
**RUSSIAN RIVER CONSERVATION CHARGE COMPUTATION**  
**FISCAL YEAR 2016-17**

**PROPERTY ASSESSMENT VALUES AS OF FY 15-16:**

<u>TAX CODE</u>	<u>ENTITY</u>	<u>SECURED</u>	<u>UNSECURED</u>	<u>TOTAL VALUE</u>
14000	Forestville Co Water District	356,076,053	2,694,682	\$358,770,735
42800	City of Cotati	916,130,191	19,841,801	935,971,992
43500	City of Petaluma	8,305,159,090	393,411,657	8,698,570,747
43800	City of Rohnert Park	4,185,166,963	122,372,269	4,307,539,232
44500	City of Santa Rosa	20,461,385,928	662,053,101	21,123,439,029
45000	City of Sonoma	2,294,129,422	55,729,806	2,349,859,228
N/A	Valley of the Moon Water District	2,912,295,650	18,312,193	2,930,607,843
	<b>TOTAL</b>	<b>\$39,430,343,297</b>	<b>\$1,274,415,509</b>	<b>\$40,704,758,806</b>

**Notes:**

- 1 Total value of secured and unsecured property in service areas of Prime Water Contractors of Sonoma County (see above) \$40,704,758,806
- 2 2011-12 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 \$2,849,333
- 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. 38,367.05
- 5 Total Russian River Conservation Charge per Acre Foot (Line 3 / Line 4) \$74.27

**Russian River Projects Charge**  
Historical calculations

For FY	Calculated	Actual Charge
06-07	17.02	\$17.02
07-08	21.4	\$20.00
08-09	25.08	\$20.00
09-10	24.68	\$20.00
10-11	24.4	\$20.00
11-12	23.44	\$20.00
12-13	20.38	\$20.00
13-14	14.72	\$14.72
14-15	8.72	\$8.72
15-16	12.39	\$12.39
16-17	12.96	\$12.96

**RR Conservation Charge**  
Historical calculations

\$48.33
\$52.70
\$58.44
\$57.70
\$74.62
\$72.27
\$72.08
\$63.30
\$63.90
\$69.38
\$74.27

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

		DELIVERING AQUEDUCT				Monthly Total
		Santa Rosa	Petaluma	Forestville	Sonoma	
36	Jan-13	1,384.5	1,950.0	24.6	287.1	3,646.1
35	Feb-13	1,188.2	1,574.1	23.4	240.4	3,026.1
34	Mar-13	1,317.5	1,724.9	23.2	312.8	3,378.4
33	Apr-13	1,839.4	2,472.8	34.0	436.0	4,782.2
32	May-13	2,150.0	2,558.5	44.4	484.1	5,237.0
31	Jun-13	2,115.7	2,664.0	42.7	475.6	5,297.9
30	Jul-13	2,768.2	3,215.1	52.5	622.8	6,658.6
29	Aug-13	2,023.7	2,499.7	44.9	481.9	5,050.2
28	Sep-13	1,992.1	2,560.3	46.5	460.5	5,059.4
27	Oct-13	2,060.9	2,765.2	47.2	524.0	5,397.4
26	Nov-13	1,398.0	2,108.6	29.4	354.8	3,890.8
25	Dec-13	1,426.6	2,492.7	29.2	304.5	4,253.0
24	Jan-14	1,248.2	2,096.2	22.7	354.4	3,721.5
23	Feb-14	1,103.1	2,156.5	18.6	230.8	3,509.0
22	Mar-14	1,113.1	2,016.6	18.0	247.1	3,394.8
21	Apr-14	1,474.6	2,619.0	27.0	328.5	4,449.0
20	May-14	1,614.8	2,457.7	36.0	389.3	4,497.8
19	Jun-14	1,770.4	2,607.8	38.1	433.3	4,849.6
18	Jul-14	2,135.4	3,092.7	51.7	535.6	5,815.5
17	Aug-14	1,628.8	2,090.5	39.4	389.2	4,147.9
16	Sep-14	1,832.5	3,131.9	44.1	435.8	5,444.3
15	Oct-14	1,432.4	2,108.1	29.9	325.8	3,896.1
14	Nov-14	1,077.8	1,854.4	22.1	228.5	3,182.8
13	Dec-14	1,274.4	2,165.9	21.4	219.8	3,681.4
12	Jan-15	1,043.7	1,285.4	19.2	171.1	2,519.4
11	Feb-15	1,032.8	1,169.0	17.0	216.3	2,435.1
10	Mar-15	1,479.2	1,645.5	27.5	343.2	3,495.3
9	Apr-15	1,243.9	1,692.4	23.7	332.3	3,292.2
8	May-15	1,247.5	2,013.7	29.0	268.7	3,559.0
7	Jun-15	1,607.0	2,432.2	43.2	316.8	4,399.2
6	Jul-15	1,341.8	1,539.5	34.9	313.3	3,229.5
5	Aug-15	1,546.4	1,751.3	41.2	346.3	3,685.2
4	Sep-15	1,552.4	1,918.3	45.4	353.6	3,869.8
3	Oct-15	1,654.3	2,202.2	49.1	407.5	4,313.1
2	Nov-15	1,114.5	1,301.8	22.9	251.4	2,690.6
1	Dec-15	1,170.5	1,622.2	23.6	218.9	3,035.3
<b>Total Deliveries</b>		<b>55,404.3</b>	<b>77,556.8</b>	<b>1,187.5</b>	<b>12,642.0</b>	<b>146,790.6</b>
<b>3-Year Annual Average</b>		<b>18,468.1</b>	<b>25,852.3</b>	<b>395.8</b>	<b>4,214.0</b>	<b>48,930.2</b>
<b>Past 12 Months</b>		<b>16,034.0</b>	<b>20,573.5</b>	<b>376.7</b>	<b>3,539.3</b>	<b>40,523.5</b>
Total Deliveries		55,404.3	77,556.8	1,187.5	12,642.0	146,790.6
Less: North Marin			20,517.3			20,517.3
Marin Municipal			20,466.5			20,466.5
<b>Sonoma Co. Deliveries</b>		<b>55,404.3</b>	<b>36,573.0</b>	<b>1,187.5</b>	<b>12,642.0</b>	<b>105,806.7</b>
<b>3-Year Annual Average</b>		<b>18,468.1</b>	<b>12,191.0</b>	<b>395.8</b>	<b>4,214.0</b>	<b>35,268.9</b>

# SONOMA COUNTY WATER AGENCY

## SCHEDULE OF ACTUAL PRIOR 12 MONTHS WATER DELIVERIES IN ACRE FEET (BY CUSTOMER TYPE)

JANUARY 13 THROUGH DECEMBER 13 (Applicable Years as Indicated)

Aqueduct No.	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	TOTAL
<u>PRIMES</u>													
1 City of Santa Rosa	1,016.9	1,002.6	1,416.0	1,197.7	1,194.4	1,534.4	1,272.9	1,462.2	1,475.8	1,580.0	1,063.1	1,125.0	15,341.2
2 City of Petaluma	480.8	448.8	653.0	565.0	570.7	659.4	576.6	652.4	612.7	768.9	490.0	541.7	7,020.1
2 North Marin Water Dist.	397.7	345.2	325.9	297.1	288.9	497.0	367.2	478.4	526.9	764.6	267.4	445.4	5,001.5
2 City of Rohnert Park	210.4	203.9	268.7	244.6	230.6	291.8	196.8	244.5	251.8	276.4	195.5	158.6	2,773.5
2 City of Cotati	27.1	24.6	34.5	34.0	39.2	49.8	44.8	48.7	50.2	56.7	32.3	36.9	478.7
1 Town of Windsor	26.1	26.0	45.9	32.6	33.1	45.3	45.4	45.5	40.4	46.1	38.1	35.2	459.7
4 City of Sonoma	88.8	99.5	147.8	156.1	132.7	121.2	135.4	164.8	157.8	171.1	114.5	98.6	1,588.3
4 Valley of the Moon Dist.	78.0	111.8	186.7	167.4	120.7	183.3	167.5	169.2	183.1	223.7	130.4	114.9	1,836.5
TOTAL PRIMES	2,325.7	2,262.3	3,078.5	2,694.3	2,610.3	3,382.2	2,806.5	3,265.7	3,298.9	3,887.5	2,331.3	2,556.4	34,499.5
<u>OTHER AGENCY CUSTOMERS</u>													
1 Larkfield Water Co	0.4	3.8	16.0	12.5	18.8	25.2	21.8	36.4	34.7	26.8	12.6	9.9	219.0
2 Penngrove Water Co	9.8	9.8	14.2	12.4	13.1	18.5	15.4	17.2	16.7	18.2	11.2	12.1	168.6
4 Lawndale Mutual	1.8	2.6	5.0	5.4	5.7	7.8	6.0	7.2	7.5	7.0	3.6	2.0	61.5
4 Kenwood Village Water Co	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.6	0.4	0.2	0.2	3.9
3 Forestville Co Water Dist.	19.2	17.0	27.5	23.7	29.0	43.2	34.9	41.2	45.4	49.1	22.9	23.6	376.7
1 Other Gov-Santa Rosa Aq	0.3	0.4	1.3	1.2	1.1	2.0	1.7	2.2	1.5	1.5	0.6	0.4	14.1
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
4 Other Gov-Sonoma Aq	0.5	0.5	0.6	0.8	0.7	1.0	1.0	1.1	1.0	1.1	0.6	0.5	9.6
TOTAL OTHER AGY. CUST	32.2	34.3	64.9	56.3	68.8	98.0	81.1	105.8	107.4	104.1	51.8	48.7	853.5
<u>OFF-PEAK CUSTOMERS</u>													
2 Marin Municipal	159.7	136.8	349.2	539.4	871.2	915.7	338.8	310.2	459.9	317.4	305.3	427.5	5,131.1
<u>SURPLUS CUSTOMERS</u>													
1 Irrigation-Santa Rosa 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
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
4 Irrigation-Sonoma Aq	1.8	1.7	2.7	2.2	8.7	3.3	3.1	3.6	3.6	4.1	2.1	2.7	39.5
TOTAL SURPLUS CUST.	1.8	1.7	2.7	2.2	8.7	3.3	3.1	3.6	3.6	4.1	2.1	2.7	39.5
TOTAL DELIVERIES	2,519.4	2,435.1	3,495.3	3,292.2	3,559.0	4,399.2	3,229.5	3,685.2	3,869.8	4,313.1	2,690.6	3,035.3	40,523.5



**FY 2016-17 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	34,499.6	547.42	18,885,749
2 OTHER AGENCY CUSTOMERS	853.5	929.49	793,279
3 MARIN MUNICIPAL (OFF-PEAK)	4,300.0	680.77	2,927,298
4 MARIN MUNICIPAL (SUPPLEMENTAL)	831.0	680.77	565,751
5 SURPLUS CUSTOMERS	39.5	685.72	27,082
<b>TOTAL WATER SALES - O&amp;M</b>	40,523.5	N/A	\$23,199,159

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]	40,523.5	3.04	123,200
1b Watershed Planning/Restoration Sub-charge [4.14]	40,523.5	82.67	3,350,000
1c Recycled Water & Local Supply Sub-charge [4.15]	40,523.5	16.41	665,000
1d Water Conservation Sub-charge [4.16]	40,523.5	41.93	1,699,059
<b>TOTAL WATER SALES - Subcharges</b>	40,523.5	N/A	\$5,837,259

**FY 2016-17 BUDGET**  
**Water Transmission System Agency Fund**  
**SANTA ROSA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 SANTA ROSA AQUEDUCT	16,034.0	547.42	8,777,319

**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]	16,034.0	3.04	48,747
1b Watershed Planning/Restoration Sub-charge [4.14]	16,034.0	82.67	1,325,496
1c Recycled Water & Local Supply Sub-charge [4.15]	16,034.0	16.41	263,121
1d Water Conservation Sub-charge [4.16]	16,034.0	41.93	672,268
<b>TOTAL WATER SALES - Subcharges</b>	16,034.0	N/A	\$2,309,632

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	16,034.0	19.50	312,662
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	16,034.0	35.88	575,287
Common Facilities Capital Charge [4.8]	16,034.0	59.74	957,868
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	16,034.0	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	16,034.0	N/A	\$1,845,817

**TOTAL ESTIMATED REVENUE**

**\$12,932,768**

**FY 2016-17 BUDGET**  
**Water Transmission System Agency Fund**  
**PETALUMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 PETALUMA AQUEDUCT	20,573.5	547.42	11,262,351

**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]	20,573.5	3.04	62,548
1b Watershed Planning/Restoration Sub-charge [4.14]	20,573.5	82.67	1,700,770
1c Recycled Water & Local Supply Sub-charge [4.15]	20,573.5	16.41	337,616
1d Water Conservation Sub-charge [4.16]	20,573.5	41.93	862,600
<b>TOTAL WATER SALES - Subcharges</b>	20,573.5	N/A	\$2,963,534

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	20,573.5	19.50	401,183
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	20,573.5	35.88	738,162
Common Facilities Capital Charge [4.8]	20,573.5	59.74	1,229,059
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	20,573.5	0.00	0
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	20,573.5	N/A	\$2,368,404

**TOTAL ESTIMATED REVENUE**

**\$16,594,289**



**FY 2016-17 BUDGET**  
**Water Transmission System Agency Fund**  
**SONOMA AQUEDUCT ESTIMATED WATER DELIVERIES AND WATER SALES - O&M plus Surcharges**  
**Sub-Object 4161**

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>WATER SALES - O&amp;M</u></b>			
1 SONOMA AQUEDUCT	3,539.3	547.42	1,937,508

**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]	3,539.3	3.04	10,760
1b Watershed Planning/Restoration Sub-charge [4.14]	3,539.3	82.67	292,590
1c Recycled Water & Local Supply Sub-charge [4.15]	3,539.3	16.41	58,081
1d Water Conservation Sub-charge [4.16]	3,539.3	41.93	148,397
<b>TOTAL WATER SALES - Subcharges</b>	3,539.3	N/A	\$509,828

REVENUE CATEGORY	ESTIMATED ACRE FEET DELIVERED	ESTIMATED RATES	ESTIMATED REVENUE
<b><u>CAPITAL CHARGES</u></b>			
Aqueduct Facilities Capital Charges [4.6 e]	3,539.3	32.00	113,259
<b><u>BOND AND LOAN CAPITAL CHARGES</u></b>			
Storage Facilities Capital Charge [4.7]	3,539.3	35.88	126,989
Common Facilities Capital Charge [4.8]	3,539.3	59.74	211,440
Sonoma Aqueduct Facilities Capital Charges [4.6 b]	3,539.3	75.53	267,331
<b>TOTAL WATER SALES - Capital &amp; Bond and Loan Charges</b>	3,539.3	N/A	\$719,019

**TOTAL ESTIMATED REVENUE                      \$3,166,355**

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Water Transmission System Agency Fund

Section/Fund No:

44205

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>5,132,115</b>	<b>5,997,428</b>		<b>5,006,370</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	84,885	47,000	60,000	45,000	(15,000)	(25.00%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(11,192)	(51,000)	0	0	0	N/A
44109 Concessions	0	0	0	0	0	N/A
44101 Rent - Real Estate	450	500	0	0	0	N/A
<b>SUBTOTAL</b>	<b>74,143</b>	<b>(3,500)</b>	<b>60,000</b>	<b>45,000</b>	<b>(15,000)</b>	<b>(25.00%)</b>

**INTERGOVERNMENTAL REVENUES**

42358 State Other Funding	14,096	0	50,000	0	(50,000)	(100.00%)
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	12,637	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>26,733</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>(50,000)</b>	<b>(100.00%)</b>

**MISCELLANEOUS REVENUES**

46021 Capital Grants - Federal	0	0	0	0	0	N/A
46027 Insurance Claims Reimbursement	0	0	0	0	0	N/A
46029 Donations/Contributions	4,000	0	40,000	12,000	(28,000)	(70.00%)
46040 Miscellaneous Revenue	15,027	2,000	0	0	0	N/A
46041 Discounts Earned	964	1,041	0	0	0	N/A
46050 Cancelled/Stale Dated Warrants	8	300	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	195,969	183,000	0	0	0	N/A
46205 PY Revenue - Charges for Servi	0	16,135	0	0	0	N/A
46215 Other Grants	61,540	61,540	0	0	0	N/A
<b>SUBTOTAL</b>	<b>277,507</b>	<b>264,016</b>	<b>40,000</b>	<b>12,000</b>	<b>(28,000)</b>	<b>(70.00%)</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	48,434	26,200	0	0	0	N/A
45301 Charges for Services	123,769	123,000	0	0	0	N/A
45314 Sale - Power	618,418	618,000	800,000	800,000	0	0.00%
45315 Sale - Water, Wholesale	22,576,077	20,554,354	27,138,289	23,199,159	(3,939,130)	(14.52%)
45316 Water Conservation	1,884,533	1,642,419	2,050,281	1,699,059	(351,222)	(17.13%)
45323 Common Fac Rev Bond Chg	2,170,679	2,342,767	1,841,731	2,069,606	227,875	12.37%
45324 Storage Fac Rev Bond Chg	857,774	1,152,265	845,815	1,088,989	243,174	28.75%
45325 Sonoma Aqueduct Rev Bond Chg	240,131	300,197	255,333	267,331	11,998	4.70%
45327 Santa Rosa Aqueduct Cap Chg	346,630	348,225	433,323	367,478	(65,845)	(15.20%)
45328 Petaluma Aqueduct Cap Chg	214,754	196,042	273,495	252,060	(21,435)	(7.84%)
45329 Sonoma Aqueduct Cap Chg	123,089	116,798	144,204	128,105	(16,099)	(11.16%)
45330 North Marin Rev Bond Chg	248,558	168,902	263,737	256,411	(7,326)	(2.78%)
45331 Water Mgmt Plan/Restore Chg	46,455	158,852	198,500	123,200	(75,300)	(37.93%)

## Section Title:

## Water Transmission System Agency Fund

## Section/Fund No:

44205

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
45332 Watershed Plan/Restore Chg	3,783,911	3,228,511	4,030,500	3,350,000	(680,500)	(16.88%)
45333 Recycled Water & Local Supply	1,319,891	1,279,734	1,597,600	665,000	(932,600)	(58.38%)
SUBTOTAL	34,603,101	32,256,267	39,872,808	34,266,399	(5,606,409)	(14.06%)
<b>OTHER FINANCING SOURCES</b>						
47002 Sale of Capital Assets	253,208	250,000	0	0	0	N/A
47102 Transfers In - btw Govtl Funds	0	184,477	0	0	0	N/A
SUBTOTAL	253,208	434,477	0	0	0	0
<b>TOTAL REVENUES</b>	<b>35,234,691</b>	<b>32,951,260</b>	<b>40,022,808</b>	<b>34,323,399</b>	<b>(5,699,409)</b>	<b>(14.24%)</b>

## EXPENDITURES

## SERVICES AND SUPPLIES

51031 Waste Disposal Services	0	4,000	0	4,000	4,000	N/A
51032 Janitorial Services	386	4,000	300	4,000	3,700	1233.33%
51061 Maintenance - Equipment	362,449	600,000	814,400	530,000	(284,400)	(34.92%)
51071 Maintenance - Bldg & Improve	26,975	0	0	0	0	N/A
51072 Landscaping Services	0	0	3,000	0	(3,000)	(100.00%)
51077 Maint-Infrastructure	13,753	0	0	0	0	N/A
51205 Advertising/Marketing Svc	450	4,000	0	4,000	4,000	N/A
51209 Information Tech Svc (non ISD)	5,036	4,000	5,000	4,000	(1,000)	(20.00%)
51211 Legal Services	8,945	10,000	20,000	10,000	(10,000)	(50.00%)
51214 Agency Extra/Temp Help	0	1,000	0	1,000	1,000	N/A
51226 Consulting Services	133,550	0	715,000	0	(715,000)	(100.00%)
51230 Security Services	504	0	0	0	0	N/A
51231 Testing/Analysis	175,897	160,000	130,000	160,000	30,000	23.08%
51241 Outside Printing and Binding	7,668	2,100	4,000	5,000	1,000	25.00%
51244 Permits/License/Fees	46,450	40,000	40,000	45,000	5,000	12.50%
51249 Other Professional Services	1,066	0	0	0	0	N/A
51301 Publications and Legal Notices	0	0	1,000	0	(1,000)	(100.00%)
51401 Rents and Leases - Equipment	67,670	155,000	155,000	155,000	0	0.00%
51421 Rents and Leases - Bldg/Land	2,003	2,000	1,300	2,000	700	53.85%
51601 Training Services	16,145	12,000	12,000	12,000	0	0.00%
51602 Business Travel/Mileage	13,765	15,000	15,000	15,000	0	0.00%
51605 Private Car Expense	1,708	1,000	2,000	1,000	(1,000)	(50.00%)
51801 Other Services	175	10,000	0	0	0	N/A
51803 Other Contract Services	679,705	890,000	1,532,000	884,500	(647,500)	(42.27%)
51902 Telecommunication Usage	90,229	90,000	80,000	90,000	10,000	12.50%
51911 Mail Services	0	60	0	0	0	N/A
51917 District Operations Chgs	11,552,866	11,900,000	11,845,000	12,200,350	355,350	3.00%
51921 Equipment Usage Charges	596,091	600,000	560,000	600,000	40,000	7.14%
52021 Clothing, Uniforms, Personal	12,821	12,000	10,000	10,000	0	0.00%
52031 Food	655	600	669	700	31	4.63%
52042 Janitorial Supplies	49	4,000	0	4,000	4,000	N/A
52061 Fuel/Gas/Oil	9,093	10,000	15,000	10,000	(5,000)	(33.33%)
52071 Materials and Supplies Expense	225,096	0	0	0	0	N/A
52072 Chemicals	607,117	700,000	740,000	650,000	(90,000)	(12.16%)



## Section Title:

## Water Transmission System Agency Fund

## Section/Fund No:

44205

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
52081 Medical/Laboratory Supplies	47,455	25,000	35,000	25,000	(10,000)	(28.57%)
52091 Memberships/Certifications	44,764	48,000	42,000	44,000	2,000	4.76%
52101 Other Supplies	43,752	20,000	0	40,000	40,000	N/A
52111 Office Supplies	12,987	12,000	31,000	10,000	(21,000)	(67.74%)
52115 Books/Media/Subscriptions	651	800	1,000	1,000	0	0.00%
52117 Mail and Postage Supplies	3,265	3,000	4,000	3,000	(1,000)	(25.00%)
52141 Minor Equipment/Small Tools	169,778	120,000	160,000	140,000	(20,000)	(12.50%)
52142 Computer Equipment/Accessories	6,264	7,000	0	7,000	7,000	N/A
52143 Computer Software/Licensing Fees	16,211	20,000	20,000	20,000	0	0.00%
52162 Special Department Expense	0	1,000	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
52191 Utilities	766	500	0	0	0	N/A
52193 Utilities - Electric	4,039,325	4,000,000	4,800,000	4,300,000	(500,000)	(10.42%)
SUBTOTAL	19,043,534	19,488,060	21,793,669	19,991,550	(1,802,119)	(8.27%)
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53104 Other interest Expense	(2,043)	0	0	0	0	N/A
53401 Amortization Expense	240,716	241,500	241,500	241,500	0	0.00%
53402 Depreciation Expense	5,583,997	6,356,403	5,727,000	6,356,403	629,403	10.99%
53403 Loss - Disposed Capital Asset	0	0	0	0	0	N/A
53501 Contributions	0	30,000	0	0	0	N/A
SUBTOTAL	5,822,670	6,627,903	5,968,500	6,597,903	629,403	10.55%
<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	110,839	0	0	0	0	N/A
19840 Work in Progress - Eqt	22,782	0	0	0	0	N/A
19841 Work in Progress - Intang	61,570	0	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
SUBTOTAL	195,191	0	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	15,000,000	15,959,106	18,276,565	13,722,251	(4,554,314)	(24.92%)
SUBTOTAL	15,000,000	15,959,106	18,276,565	13,722,251	(4,554,314)	(24.92%)
<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>REMIMBURSEMENTS</b>						
58010 Reimb. - General	15,340	0	0	0	0	N/A
SUBTOTAL	15,340	0	0	0	0	N/A

## Section Title:

Water Transmission System Agency Fund

## Section/Fund No:

44205

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<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>40,076,734</b>	<b>42,075,069</b>	<b>46,038,734</b>	<b>40,311,704</b>	<b>(5,727,030)</b>	<b>(12.44%)</b>

**Adjustments to Reserves/Encumbrances:**

Technical Adjustments

Depreciation 5,824,713 6,597,903 6,597,903

Outstanding Encumbrances - (Decrease) F (131,298) 1,534,847

Capitalized Interest (2,043)

Gain/Loss on disposal of fixed assets 4,792

Unrealized Gain/ Loss (GASB 31) 11,192

Change in Prudent Reserve

Rounding 0

<b>ENDING FUND BALANCE</b>	<b>5,997,428</b>	<b>5,006,370</b>	<b>5,615,968</b>
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Operations and Maintenance 44205 Fund Balance Reserve Goal  
Over/(Under) Goal

<b>4,997,888</b>
<b>618,081</b>

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

Section/Fund No:

44205

	Actual FY 14-15	Adopted FY 15-16	Requested FY 16-17	Difference	Percent Change
<u>51061 Maintenance - Equipment</u>	362,449	814,400	530,000	(284,400)	-34.9%
In response to reduced deliveries, Agency is working to reduce these costs. No critical projects deferred.					
<u>51211 Legal Services</u>	8,945	20,000	10,000	(10,000)	-50.0%
Reflects level of expected expenditures.					
<u>51231 Testing/Analysis</u>	175,897	130,000	160,000	30,000	23.1%
Reflects level of expected expenditures.					
<u>51803 Other Contract Services</u>	679,705	1,532,000	884,500	(647,500)	-42.3%
See attached list. In response to reduced deliveries, Agency is working to reduce these costs.					
<u>51917 District Operations Chgs</u>	11,552,866	11,845,000	12,200,350	355,350	3.0%
Increase is per negotiated labor agreements.					
<u>51921 Equipment Usage Charges</u>	596,091	560,000	600,000	40,000	7.1%
Anticipated costs based on prior year actuals.					
<u>52072 Chemicals</u>	607,117	740,000	650,000	(90,000)	-12.2%
Reflects level of expected expenditures.					
<u>52141 Minor Equipment/Small Tools</u>	169,778	160,000	140,000	(20,000)	-12.5%
In response to reduced deliveries, Agency is working to reduce these costs.					
<u>52193 Utilities - Electric</u>	4,039,325	4,800,000	4,300,000	(500,000)	-10.4%
Reflects level of expected expenditures.					



2016-17

**Water Transmission System Agency Fund**

<b>51061</b>	<b>Maintenance - Equipment</b>	<b>AMOUNT</b>
1	Collector 6 Chlorine Lines Maintenance	55,000
2	Electrical Supplies and Maintenance Services	180,000
3	Hardware and Miscellaneous Supplies	100,000
4	Pump and Pipeline Supplies and Maintenance Services	120,000
5	Safety Equipment and Safety Equipment Testing	30,000
6	Santa Rosa Plain Well Monitoring Program (SCWA Wells)	15,000
7	Miscellaneous maintenance	30,000
		<hr/>
		\$ 530,000

<b>51803</b>	<b>Other Contract Services</b>	<b>AMOUNT</b>
1	Aqueduct Condition Assessments	50,000
2	As-Needed Dive Services	100,000
3	BAIRWMP	30,000
4	Collector Capacity Study	180,000
5	Community Outreach Program	7,500
6	Groundwater Banking Feasibility - Pilot Studies	125,000
7	LBNL Wohler Geophysics (phase 2 & 3)	30,000
8	Legislative Advocacy - Federal	90,000
9	Legislative Advocacy - State	30,000
10	LHMP - program planning	10,000
11	Miscellaneous Contract Services	50,000
12	NCIRWMP	35,000
13	Riverfront Park Maintenance	95,500
14	Russian River Well Field Assessment and Evaluation	30,000
15	Sonoma Youth Ecology Corps	16,500
16	Strategic Partnerships Initiative	5,000
		<hr/>
		\$ 884,500

***See Project Information Next Page***

## **51803 Other Contract Services Project Information**

### **Aqueduct Condition Assessments**

This program is evaluating approaches to assess the integrity of the water transmission system pipelines with data collected from a variety of inspection technologies. To date, several pipeline inspection technologies have been pilot-tested on sections of the Santa Rosa Aqueduct, Sonoma Aqueduct, and Oakmont Pipeline. Additional inspection technologies are planned for evaluation in the upcoming year.

### **Collector Capacity Study**

The Collector Capacity Study is a program the Water Agency started 6 or 7 years ago to evaluate the condition and pumping capacity of each of the collector wells on a relatively regular basis (approximately every 3 to 5 years). A goal of the program was also to establish a standard protocol for performing the pumping test so that results of the testing were comparable over time. The second round of condition assessment and testing of Collectors 3, 4 and 5 was completed last summer. The final report summarizing the findings should be available in the next month or so. The second round of testing of Collectors 1, 2 and 6 is scheduled for next summer. The six collector wells produce approximately 98% of the Water Agency water purchased by the Contractors.

### **Groundwater Banking Feasibility – Pilot Studies**

A Feasibility Study for a Groundwater Banking Program was prepared in 2013 for the Water Agency in partnership with the City of Sonoma, Valley of the Moon Water District, City of Cotati, City of Rohnert Park, and Town of Windsor. The Feasibility Study identified opportunities to improve long-term water supply reliability in Sonoma Valley and the Santa Rosa Plain by utilizing wintertime Russian River supplies and existing conveyance infrastructure to meet dry year water needs. The Feasibility Study concluded that aquifer storage and recovery wells are the most feasible method for implementing groundwater banking in the region. The next step in demonstrating the feasibility of Aquifer Storage and Recovery (ASR) is to perform a pilot study to: (1) assess the ability of local aquifers to store water; (2) assess potential water quality changes during ASR; (3) refine permitting parameters for ASR projects; and (4) provide data to scope and develop long-term groundwater banking programs.

Funds to be expended in FY 15/16 and FY 16/17 will: (1) provide match funding from a State LGA grant to support the construction of monitoring wells intended to support future ASR Pilot Projects for the City of Sonoma and VOMWD; and (2) support performance of an ASR Pilot Study for the City of Sonoma in 2016.

### **Lawrence Berkeley National Laboratory (LBNL) Wohler Geophysics**

The objective of the project is to develop both insights and tools that can be used by the Water Agency to optimize operation of the Water Agency's water supply diversion facilities. This work is being conducted to improve the reliability of the water transmission system and is an immediate action described in the Water Agency's Water Supply Strategies Action Plan. The work builds upon previous phases of study by Lawrence Berkeley National Laboratory (LBNL) researchers, which focused on the collection of geophysical data and the integration of that data with hydrological computer models to simulate surface water infiltration and groundwater flow characteristics along the Russian River adjacent to the Water Agency's diversion facilities. The findings of these studies suggest that riverbed permeability is a key control on surface water infiltration characteristics, which is particularly affected by seasonal clogging of the riverbed by fine particles.

Work accomplished in FY14/15 and FY15/16 includes: (1) collection and analysis of sediment samples, water-level, and temperature data; (2) collection and analysis of geophysical data sets; and (3) preparation of journal article describing results of the study.

Additional work activities contemplated in FY16-17 include utilizing the data collected and study findings to further couple geophysical data with the hydrologic model, which will provide a tool for Water Agency staff to optimize both the monitoring and operation of the Water Agency's diversion facilities on the Russian River.

### ***51803 Other Contract Services Project Information***

#### **Russian River Well Field Evaluation**

The Russian River Well Field is an emergency backup water supply that cannot pump into the transmission system when the collector wells are pumping (their pumps operate at a much lower hydraulic head). The FY16-17 budget is to develop a work plan to:

1. Evaluate the condition of the wells;
2. Determine which configuration of wells could best augment water produced by the collector wells;
3. How to best pump water produced by the well field into the transmission system; and
4. Determine if there are locations at Mirabel and Wohler where additional wells could be drilled and constructed to augment water produced by the existing system.

DRAFT



**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Water Management Planning  
 Section/Fund No: 44210

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>409,666</b>	<b>503,294</b>		<b>247,523</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	2,792	2,100	2,100	2,100	0	0.00%
44050 Unrealized Gains and Losses	(2,447)	(1,500)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>345</b>	<b>600</b>	<b>2,100</b>	<b>2,100</b>	<b>0</b>	<b>0.00%</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42619 Town of Windsor	2,611	9,533	12,556	7,394	(5,162)	(41.11%)
<b>SUBTOTAL</b>	<b>2,611</b>	<b>9,533</b>	<b>12,556</b>	<b>7,394</b>	<b>(5,162)</b>	<b>(41.11%)</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Fund	46,455	158,852	198,500	123,200	(75,300)	(37.93%)
<b>SUBTOTAL</b>	<b>46,455</b>	<b>158,852</b>	<b>198,500</b>	<b>123,200</b>	<b>(75,300)</b>	<b>(37.93%)</b>
<b>TOTAL REVENUES</b>	<b>49,411</b>	<b>168,986</b>	<b>213,156</b>	<b>132,694</b>	<b>(80,462)</b>	<b>(37.75%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51211 Legal Services	0	0	0	0	0	N/A
51212 Legal Services - External	0	600	0	0	0	
51602 Business Travel/Mileage	0	0	0	0	0	
51605 Private Car Expense	0	0	0	0	0	N/A
51803 Other Contract Services	0	200,000	200,000	20,000	(180,000)	
51917 District Operations Chgs	7,909	75,000	75,000	5,000	(70,000)	(93.33%)
51921 Equipment Usage Charges	0	0	0	0	0	N/A
52171 Water Conservation Program	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>7,909</b>	<b>275,600</b>	<b>275,000</b>	<b>25,000</b>	<b>(250,000)</b>	<b>(90.91%)</b>
<b>OTHER CHARGES</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>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fur	0	7,066	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>7,066</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>7,909</b>	<b>282,666</b>	<b>275,000</b>	<b>25,000</b>	<b>(250,000)</b>	<b>(90.91%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Technical Adjustments		(142,090)				
Outstanding Encumbrances - Net Change	49,679					
Unrealized Gain/ Loss (GASB 31)	2,447					
Rounding		-0.5				
<b>ENDING FUND BALANCE</b>	<b>503,294</b>	<b>247,523</b>		<b>355,217</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Watershed Planning/Restoration

Section/Fund No:

44215

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>5,072,517</b>	<b>6,764,613</b>		<b>2,185,415</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	34,746	30,000	18,000	18,000	0	0.00%
44050 Unrealized Gains and Losses	(29,470)	(25,000)	0	0	0	N/A
SUBTOTAL	5,276	5,000	18,000	18,000	0	0.00%
<b>INTERGOVERNMENTAL REVENUE</b>						
42461 Federal Other Funding	6,993	64,000	0	0	0	N/A
42619 Town of Windsor	212,634	193,757	254,944	201,049	(53,895)	(21.14%)
SUBTOTAL	219,627	257,757	254,944	201,049	(53,895)	(21.14%)
<b>MISCELLANEOUS REVENUE</b>						
46021 Capital Grants - Federal	26,127	0	0	0	0	N/A
46029 Donations/Contributions	1,822	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46050 Cancelled/Stale Dated Warrant	792	0	0	0	0	N/A
46200 Revenue Appl PY Misc Revent	1,515	100	0	0	0	N/A
SUBTOTAL	30,255	100	0	0	0	N/A
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	3,783,911	3,228,511	4,030,500	3,350,000	(680,500)	(16.88%)
SUBTOTAL	3,783,911	3,228,511	4,030,500	3,350,000	(680,500)	(16.88%)
<b>TOTAL REVENUES</b>	<b>4,039,070</b>	<b>3,491,369</b>	<b>4,303,444</b>	<b>3,569,049</b>	<b>(734,395)</b>	<b>(17.07%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51021 Communication Expense	198	0	0	0	0	N/A
51061 Maintenance - Equipment	5,111	6,000	0	0	0	N/A
51209 Information Tech Svc (non ISD)	80	0	0	0	0	N/A
51211 Legal Services	17,602	6,000	0	0	0	N/A
51212 Legal Services - External	2,153	2,000	0	0	0	N/A
51226 Consulting Services	49,821	0	0	0	0	N/A
51231 Testing/Analysis	59,696	60,000	0	0	0	N/A
51241 Outside Printing and Binding	4,298	5,700	0	0	0	N/A
51244 Permits/License/Fees	103	2,500	0	0	0	N/A
51401 Rents and Leases - Equipment	19,346	22,000	0	0	0	N/A
51601 Training/Conference	1,420	0	0	0	0	N/A
51602 Business Travel/Mileage	1,144	1,300	0	0	0	N/A
51605 Private Car Expense	1,454	0	0	0	0	N/A
51803 Other Contract Services	590,042	3,300,000	1,211,000	1,376,500	165,500	13.67%
51902 Telecommunication Usage	46	150	0	0	0	N/A
51917 District Operations Chgs	1,439,139	1,600,000	3,469,500	3,048,500	(421,000)	(12.13%)
51921 Equipment Usage Charges	29,799	25,000	0	0	0	N/A
52021 Clothing, Uniforms, Personal	3,443	1,500	0	0	0	N/A
52031 Food	693	400	0	0	0	N/A
52043 Safety Supplies/Equipment	268	0	0	0	0	N/A
52063 Vehicle Parts	668	0	0	0	0	N/A
52071 Materials and Supplies Expens	258	0	0	0	0	N/A
52081 Medical/Laboratory Supplies	1,792	1,700	0	0	0	N/A
52101 Other Supplies	19,383	10,000	0	0	0	N/A

## Section Title:

Watershed Planning/Restoration

## Section/Fund No:

44215

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
52111 Office Supplies	97	100	0	0	0	N/A
52114 Freight/Postage	1,057	0	0	0	0	N/A
52117 Mail and Postage Supplies	1,480	1,500	0	0	0	N/A
52141 Minor Equipment/Small Tools	11,671	6,000	0	0	0	N/A
52181 Business Meals/Supplies	43	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,262,304</b>	<b>5,051,850</b>	<b>4,680,500</b>	<b>4,425,000</b>	<b>(255,500)</b>	<b>(5.46%)</b>
<b>OTHER CHARGES</b>						
53104 Other Interest Expense	(78)	0	0	0	0	N/A
53402 Depreciation Expense	925	5,500	0	0	0	N/A
53501 Contributions	0	2,500	0	0	0	N/A
<b>SUBTOTAL</b>	<b>847</b>	<b>8,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</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	27,939	20,000	0	0	0	N/A
19841 Acq-WIP-Intangibles	23,989	210,000	0	150,000	150,000	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>51,929</b>	<b>230,000</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>	<b>N/A</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	0	87,436	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>87,436</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>2,315,080</b>	<b>5,377,286</b>	<b>4,680,500</b>	<b>4,575,000</b>	<b>(105,500)</b>	<b>(2.25%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Technical Adjustments		(3,227,189)				
Outstanding Encumbrances - Net Change	(62,210)	533,908				
Capital Interest	(78)					
Depreciation	925					
Unrealized Gain/ Loss (GASB 31)	29,470					
Rounding	(1)	1				
<b>ENDING FUND BALANCE</b>	<b>6,764,613</b>	<b>2,185,415</b>		<b>1,179,464</b>		



**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Recycled Water and Local Supply

Section/Fund No:

44220

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>1,112,225</b>	<b>1,140,307</b>		<b>69,112</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	11,923	12,000	4,500	4,500	0	0.00%
44050 Unrealized Gains and Losses	(9,387)	(6,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,536</b>	<b>6,000</b>	<b>4,500</b>	<b>4,500</b>	<b>0</b>	<b>0.00%</b>
<b>INTERGOVERNMENTAL REVENUE</b>						
42358 State Other Funding	0	0	0	0	0	N/A
42619 Town of Windsor	74,170	76,803	101,054	39,910	(61,144)	(60.51%)
<b>SUBTOTAL</b>	<b>74,170</b>	<b>76,803</b>	<b>101,054</b>	<b>39,910</b>	<b>(61,144)</b>	<b>(60.51%)</b>
<b>CHARGES FOR SERVICES</b>						
45301 Charges for Services	158,517	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>158,517</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MISCELLANEOUS REVENUE</b>						
46200 Revenue Appl PY Misc Revenue	200	200	0	0		
46029 Donations/Contributions	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>200</b>	<b>172,700</b>	<b>172,500</b>	<b>112,500</b>	<b>(60,000)</b>	<b>(34.78%)</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	1,319,891	1,331,734	1,597,600	665,000	(932,600)	(58.38%)
<b>SUBTOTAL</b>	<b>1,319,891</b>	<b>1,331,734</b>	<b>1,597,600</b>	<b>665,000</b>	<b>(932,600)</b>	<b>(58.38%)</b>
<b>TOTAL REVENUES</b>	<b>1,555,314</b>	<b>1,587,236</b>	<b>1,875,654</b>	<b>821,910</b>	<b>(1,053,744)</b>	<b>(56.18%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51021 Communication Expense	35	0	0	0	0	N/A
51061 Maintenance - Equipment	155	0	0	0	0	N/A
51205 Advertising/Marketing Svc	3,241	0	0	0	0	N/A
51209 Information Tech Svc (non ISD)	99	6,000	0	0	0	N/A
51211 Legal Services	20,496	14,000	42,000	0	(42,000)	(100.00%)
51212 Legal Services - External	7,325	5,000	0	0	0	N/A
51226 Consulting Services	22,466	0	0	0	0	N/A
51241 Outside Printing and Binding	2,252	0	0	0	0	N/A
51244 Permits/License/Fees	50	0	0	0	0	N/A
51401 Rents and Leases - Equipment	0	700	0	0	0	N/A
51601 Training Services	1,923	2,600	0	0	0	N/A
51602 Business Travel/Mileage	0	2,600	0	0	0	N/A
51803 Other Contract Services	414,071	700,000	404,500	372,500	(32,000)	(7.91%)
51902 Telecommunication Usage	39	0	0	0	0	N/A
51915 ISD - Reprographics Services	1,009	0	0	0	0	N/A
51917 District Operations Chgs	682,714	700,000	515,000	405,000	(110,000)	(21.36%)
51921 Equipment Usage Charges	1,528	1,200	0	0	0	N/A
52031 Food	63	0	0	0	0	N/A
52101 Other Supplies	207	0	0	0	0	N/A
52115 Books/Media/Subscriptions	9	0	0	0	0	N/A
52141 Minor Equipment/Small Tools	25	0	0	0	0	N/A
52143 Computer Software/Licensing Fees	0	3,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,157,706</b>	<b>1,435,100</b>	<b>961,500</b>	<b>777,500</b>	<b>(184,000)</b>	<b>(19.14%)</b>

## Section Title:

## Recycled Water and Local Supply

## Section/Fund No:

44220

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0	0	N/A
53501 Contributions	0	1,246,644	1,157,233	0	(1,157,233)	(100.00%)
SUBTOTAL	0	1,246,644	1,157,233	0	(1,157,233)	(100.00%)
<b>FIXED ASSETS</b>						
19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	0	4,500	0	0	0	N/A
19841 Work in Progress - Intang	0	0	0	0	0	N/A
SUBTOTAL	0	4,500	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	0	28,318	0	0	0	N/A
SUBTOTAL	0	28,318	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>1,157,706</b>	<b>2,714,562</b>	<b>2,118,733</b>	<b>777,500</b>	<b>(1,341,233)</b>	<b>(63.30%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Technical Adjustments	0	(571,645)				
Outstanding Encumbrances - Net Change	(304,743)	728,831				
Change in Windsor Reserve	(74,170)	(101,054)		(101,054)		
Unrealized Gain/ Loss (GASB 31)	9,387					
Rounding		(0)				
<b>ENDING FUND BALANCE</b>	<b>1,140,307</b>	<b>69,112</b>		<b>12,468</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

**Water Conservation**

Section/Fund No:

**44225**

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>209,854</b>	<b>888,870</b>		<b>719,091</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	6,910	4,500	600	4,500	3,900	650.00%
44050 Unrealized Gains and Losses	(9,530)	(3,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(2,620)</b>	<b>1,500</b>	<b>600</b>	<b>4,500</b>	<b>3,900</b>	<b>650.00%</b>

**INTERGOVERNMENTAL REVENUE**

42358 State Other Funding	329,080	125,000	202,500	505,050	302,550	149.41%
42461 Federal Other Funding	36,147	40,839	31,039	42,391	11,352	36.57%
42610 Other Governmental Agencies	51,131	2,000	60,000	0	(60,000)	(100.00%)
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	105,900	98,569	129,688	101,968	(27,720)	(21.37%)
42621 North Marin Water District	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>522,257</b>	<b>266,408</b>	<b>423,227</b>	<b>649,409</b>	<b>226,182</b>	<b>53.44%</b>

**OTHER FINANCING SOURCES**

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	200,000	0	205,000	205,000	N/A
46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46041 Discounts Earned	136	0	0	0	0	N/A
46050 Cancelled/State Dated Warrants	0	6,000	0	0	0	N/A
46200 Revenue Appl PY Misc Revenue	0	0	0	0	0	N/A
46215 Other Grants	114,000	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>114,136</b>	<b>206,000</b>	<b>0</b>	<b>205,000</b>	<b>205,000</b>	<b>N/A</b>

**OTHER FINANCING SOURCES**

47102 Transfers In - btw Govtl Funds	1,884,533	1,642,419	2,050,281	1,699,059	(351,222)	(17.13%)
<b>SUBTOTAL</b>	<b>1,884,533</b>	<b>1,642,419</b>	<b>2,050,281</b>	<b>1,699,059</b>	<b>(351,222)</b>	<b>(17.13%)</b>

**TOTAL REVENUES**

<b>2,518,306</b>	<b>2,116,327</b>	<b>2,474,108</b>	<b>2,557,968</b>	<b>83,860</b>	<b>3.39%</b>
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**EXPENDITURES**

**SERVICES AND SUPPLIES**

51021 Communication Expense	280	0	0	0	0	N/A
51032 Janitorial Services	144	0	0	0	0	N/A
51061 Maintenance - Equipment	1,104	25,000	0	0	0	N/A
51205 Advertising/Marketing Svc	151,370	152,000	0	0	0	N/A
51209 Information Tech Svc (non ISD)	179	300	0	0	0	N/A
51211 Legal Services	630	1,000	0	0	0	N/A
51214 Agency Extra/Temp Help	55	0	0	0	0	N/A
51225 Training Services	2,000	0	0	0	0	N/A
51230 Security Services	0	800	0	0	0	N/A
51241 Outside Printing and Binding	63,554	65,000	10,000	10,000	0	0.00%
51249 Other Professional Services	0	0	20,000	0	(20,000)	(100.00%)
51250 Planning/Mapping/Inspections	350	0	0	0	0	N/A
51301 Publications and Legal Notices	860	0	0	0	0	N/A
51401 Rents and Leases - Equipment	1,230	900	0	0	0	N/A



## Section Title:

## Water Conservation

## Section/Fund No:

44225

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
51601 Training Services	11,944	13,000	0	0	0	N/A
51602 Business Travel/Mileage	2,261	2,500	18,000	2,500	(15,500)	(86.11%)
51605 Private Car Expense	970	1,000	0	0	0	N/A
51801 Other Services	223	1,000	0	0	0	N/A
51803 Other Contract Services	312,868	300,000	262,600	87,600	(175,000)	(66.64%)
51902 Telecommunication Usage	207	800	0	0	0	N/A
51915 ISD Reprographics Services	3,702	0	0	0	0	N/A
51917 District Operations Chgs	1,372,275	1,420,000	1,357,000	1,424,850	67,850	5.00%
51921 Equipment Usage Charges	24,691	25,000	0	0	0	N/A
52031 Food	427	800	0	0	0	N/A
52061 Fuel/Gas/Oil	0	100	0	0	0	N/A
52071 Materials and Supplies Expense	7,430	7,500	0	25,000	25,000	N/A
52091 Memberships/Certifications	15,357	15,000	10,000	10,000	0	0.00%
52101 Other Supplies	35,030	35,000	0	0	0	N/A
52111 Office Supplies	1,164	2,500	20,000	0	(20,000)	(100.00%)
52112 Office Furniture/Fixtures	1,153	0	0	0	0	N/A
52114 Freight/Postage	233	0	0	0	0	N/A
52115 Books/Media/Subscriptions	4,963	5,000	0	0	0	N/A
52117 Mail and Postage Supplies	414	700	0	0	0	N/A
52141 Minor Equipment/Small Tools	22,688	25,000	0	0	0	N/A
52142 Computer Equipment/Accessories	33	0	0	0	0	N/A
52162 Special Department Expense	1,048	4,000	185,000	0	(185,000)	(100.00%)
52171 Water Conservation Program	3,000	14,000	401,220	525,500	124,280	30.98%
52181 Business Meals/Supplies	1,529	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>2,045,362</b>	<b>2,117,900</b>	<b>2,283,820</b>	<b>2,085,450</b>	<b>(198,370)</b>	<b>(8.69%)</b>
<b>OTHER CHARGES</b>						
53501 Contributions	357,494	200,000	0	505,050	505,050	N/A
<b>SUBTOTAL</b>	<b>357,494</b>	<b>200,000</b>	<b>0</b>	<b>505,050</b>	<b>505,050</b>	<b>N/A</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	0	61,657	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>61,657</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>
<b>TOTAL EXPENDITURES</b>	<b>2,402,856</b>	<b>2,379,557</b>	<b>2,283,820</b>	<b>2,590,500</b>	<b>306,680</b>	<b>13.43%</b>

## Adjustments to Reserves/Encumbrances:

Technical Adjustments	0	0	0
Outstanding Encumbrances - Net Change	570,774	223,138	0
Change in Windsor Reserve	(16,737)	(129,688)	(129,688)
Audit Adjustment (A/P)	0	0	0
Unrealized Gain/ Loss (GASB 31)	9,530	0	0
Rounding			

<b>ENDING FUND BALANCE</b>	<b>888,870</b>	<b>719,091</b>	<b>556,871</b>
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## Water Transmission Budget

2016-17

### Itemized Detail for Subfunds Consulting/Contractual Services

Budget

FY 16-17

#### Water Management Planning

Water Demand Analysis/ Financial Modeling: Develop scope, cost, energy requests, and schedule of transmission system projects required to meet the Water Agency's portion of UWMP-identified projected demands through the Urban Water Management planning horizon. Projects identified using Water Agency's transmission system hydraulic model. Next UWMP due July 1, 2016. Conduct follow-up meetings, respond to DWR and contractor requests, track regulatory compliance changes, and coordinate with climate adaption strategic planning efforts.

\$ 20,000

#### Watershed Planning/Restoration

RRIFR Decision 1610 Change Petition: Russian River Flows: Assist in preparation of final Environmental Impact Report for Fish Habitat Flows and Water Rights Project and have Board of Directors certify. Consultant services for impact analysis, flow modeling, hydroelectric analysis, water quality monitoring, climate change modeling (USGS), EIR, and responses to public comments, and hydrologic index. Work is occurring internally on the preparation of the draft Environmental Impact Report for the Fish Habitat Flows and Water Rights Project. The EIR is being prepared by Water Agency staff, with assistance from consultants on some areas of impact analysis. A draft EIR is anticipated to be released in Spring 2015-16. In FY16-17, most of the work will focus on reviewing and responding to public comments, preparation of the final EIR, and presentation to the Board of Directors to certify. Work also includes submission of annual Temporary Urgency Change Petition to the State Board to approve the requested changes to minimum in-stream flows as identified in the Biological Opinion. Compared to FY15-16, the Decision 1610 budget for district operations has increased \$126,000 and the budget for contract services has increased \$49,000. The increase is attributable to the level of effort to prepare and certify the final EIR.

294,000

RRIFR Estuary Management: Required Annual Biological Opinion Activities: The Water Agency, 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. From late spring to early fall (when flows are below 300 cfs at Hacienda Bridge), the Water Agency conducts monthly surveys of young steelhead in the estuary. Other 2016 activities include installation and monitoring of downstream migrant salmonid traps and water quality monitoring stations, and flood risk feasibility studies, and sea level rise analysis. Compared to FY15-16, the Estuary Management budget for district operations has decreased \$112,500 and the budget for contract services has increased \$54,000.

\$ 700,000

Climate Adaptation Planning: One of the most critical aspects of the Water Agency's mission is planning for, and ensuring, the long-term reliability and resilience of SCWA's water supply. Climate variability and climate change are significant drivers influencing the future reliability of these systems. There are several aspects of climate change that could have serious impacts on the Agency's ability to perform its core functions. A short list would include; sea level rise, severe weather events, and prolonged periods of drought. The Water Agency is developing a forward-looking Climate Vulnerability Assessment and Adaptation Plan to serve as a roadmap for the agency's assessment of climate risks and potential adaptation strategies related to its water supply, infrastructure, and operations. The plan will detail how the predicted impacts of climate change will affect each of these core functions and provide guidance for Agency staff when planning Agency activities into the future. The FY16-17 budget is the 1st of a 2 year project to develop the plan.

\$ 382,500

\$ 1,376,500

3/4/2016

## Water Transmission Budget

2016-17

### *Itemized Detail for Subfunds Consulting/Contractual Services*

Budget

FY 16-17

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#### **Recycled Water and Local Supply**

While new Groundwater Sustainability Plans (GSPs) will need to be developed after Groundwater Sustainability Agencies (GSAs) are formed, the existing Groundwater Management Plans (GMPs) form a strong basis for compiling the technical data needed to develop the GSPs and the collaborative processes encouraged under the Sustainable Groundwater Management Act (SGMA), including the use of advisory groups and considering the interests of the beneficial uses and users of groundwater.

The work activities proposed for FY16/17 will allow for the continuation of monitoring programs, outreach to stakeholders, and assessment of future groundwater management alternatives which will all represent foundational components that will be needed under SGMA. For both the Sana Rosa Plain and Sonoma Valley, having ongoing GMPs prioritizes the Water Agency for funding as we move forward with preparing our GSPs under SGMA. The Water Agency has been successful in obtaining significant grant funding for both programs. For seepage runs, surface water and groundwater interactions are one of the six required technical metrics that we'll need to be evaluated under SGMA.



## Water Transmission Budget

2016-17

### Itemized Detail for Subfunds Consulting/Contractual Services

Budget

FY 16-17

#### ***Santa Rosa Plain Groundwater Management Planning***

The Santa Rosa Plain (SRP) Groundwater Management Plan was adopted in 2014. The Plan is intended to inform and guide local decisions about groundwater management in the SRP. Its purpose is to proactively coordinate public and private groundwater management efforts and leverage funding opportunities to maintain a sustainable, locally-managed, high-quality groundwater resource for current and future users, while sustaining natural groundwater and surface water functions. The first two years of implementing the Plan (2015 and 2016) are funded through a \$330,000 cooperative agreement developed amongst the Water Agency and County of Sonoma Permit and Resource Management Department, the Sonoma County Agricultural Preservation & Open Space District, City of Santa Rosa, City of Rohnert Park, Town of Windsor, City of Cotati, City of Sebastopol, California-American Water Company, and United Wine Growers.

Work activities conducted in FY14/15 and 15/16 include:

- 1) Preparation of outreach materials for initial plan implementation.
- 2) Organization, preparation of materials and work products for 4 Panel meetings and 6 Technical Advisory Committee meetings.
- 3) Initial development of existing data compilation framework and monitoring and reporting protocols.
- 4) Developed monitoring network proposals for potential future grant funding opportunities.
- 5) Organization of voluntary groundwater level monitoring program and evaluation of groundwater level data.
- 6) Preparation of 2015 Annual Report.

\$ 212,500

Anticipated work activities for FY 15/16 and 16/17 funded by the Cooperative Agreement include

- 1) Continued Panel and TAC meetings;
- 2) Develop and run management scenarios, in consultation with the Panel, using the computer model Groundwater and Surface-water FLOW (GSFLOW) developed for the Plan Area by the United States Geological Survey.
- 3) Develop projects and programs for anticipated state grant funding opportunities.
- 4) Continued coordination of data management and preparation of 2016 Annual Report.

## Water Transmission Budget

2016-17

### Itemized Detail for Subfunds Consulting/Contractual Services

Budget

FY 16-17

#### **Sonoma Valley Groundwater Management**

The Sonoma Valley Groundwater Management Plan was adopted in 2007. Its purpose is to inform and guide the Water Agency, as the lead agency, as well as stakeholders and other interested parties for the purpose of maintaining a sustainable, high-quality groundwater resource for the users of the groundwater basin underlying the Sonoma Valley. The Program is guided by an advisory panel and technical committee that is comprised of a diverse group of local stakeholders, including the Sonoma County Water Agency, Valley of the Moon Water District, City of Sonoma, local agriculture, dairies, private business enterprises, environmental groups, and rural well users. This group has been working collaboratively to develop a range of potential alternative solutions, such as increasing conservation, expanding the use of recycled water to offset groundwater use, and enhancing groundwater recharge.

The initial six years of implementing the Plan was funded through cooperative agreements developed amongst the Water Agency and County of Sonoma, the Valley of the Moon Water District, City of Sonoma, and Sonoma Valley County Sanitation District. Currently the Program is funded by the Water Agency, a new cooperative agreement for implementation has not been developed.

Work activities conducted in FY14/15 and 15/16 include:

- 1) Preparation of outreach materials for plan implementation and convening of community outreach subcommittee.
- 2) Organization, preparation of materials and work products for 4 Panel meetings and 8 Technical Advisory Committee meetings.
- 3) Coordination and implementation of groundwater-level and streamflow monitoring programs.
- 4) Initiation of groundwater quality study to assess salinity levels in southern Sonoma Valley by the USGS.
- 5) Developed monitoring network proposals for potential future grant funding opportunities.
- 6) Update of groundwater flow model.
- 7) Initial development of alternatives solutions for addressing declining groundwater levels in southern Sonoma Valley.
- 8) Planning activities associated with constructing two new groundwater monitoring wells funded, in part, through a DWR LGA grant.
- 9) Planning activities associated with initiating an Aquifer Storage and Recovery pilot study in partnership with the City of Sonoma.
- 10) Evaluation of groundwater level data.
- 11) Preparation of 2015 Annual Report.

\$ 120,000

Anticipated work activities for FY 15/16 and 16/17 funded by the Cooperative Agreement include:

- 1) Continued Panel and TAC meetings;
- 2) Develop and run management scenarios, in consultation with the Panel, using the updated groundwater flow model.
- 3) Continue implementation of groundwater-level and streamflow monitoring.
- 4) Complete groundwater quality study to assess salinity levels in southern Sonoma Valley by the USGS.
- 5) Prioritize alternatives for addressing declining groundwater levels in southern Sonoma Valley.
- 6) Construct two new groundwater monitoring wells funded, in part, through a DWR LGA grant.
- 7) Initiate an Aquifer Storage and Recovery pilot study in partnership with the City of Sonoma.
- 8) Develop projects or programs for anticipated state grant funding opportunities.
- 9) Continued coordination of data management and preparation of 2016 Annual Report.

## Water Transmission Budget

2016-17

### Itemized Detail for Subfunds Consulting/Contractual Services

Budget

FY 16-17

#### **USGS Modeling Support**

USGS Modeling Support: Initially funded in FY12/13 (\$50K) to provide training and support to staff of the Water Agency and interested funding participants of the USGS Santa Rosa Plain GSFLOW model. The training was completed in FY14/15. No funding was budgeted for the project in FY14/15 or FY15/16.

Future funding of \$30K in FY16/17 is requested, as support from USGS modelers is anticipated to be needed to perform or advise on updates to the model and advise on applications that will assist in complying with SGMA. \$ 30,000

#### **Sonoma Creek Seepage Study**

The Sonoma Creek Seepage Study includes the performance of seepage runs, which are streamflow measurements conducted over a short period of time at multiple locations by the Sonoma Ecology Center, to evaluate the exchange between surface water in Sonoma Creek and its tributaries and groundwater. Data collected through the program provides information on surface water groundwater exchange and information needed to calibrate the groundwater flow model. The funding for the program was budgeted in FY12/13 and 13/14, which funded a \$69K agreement with the Sonoma Ecology Center.

\$ 10,000

In FY14/15 and FY15/16, monthly measurements were collected at approximately 19 sites and semiannual measurements were collected at approximately 70 sites in February and October 2015.

Funding allocated in FY15/16 and FY16/17 would fund a reduced scope to continue the collection of streamflow data at prioritized locations.

\$ 372,500

#### **Water Conservation**

##### **51241-Outside Printing and Binding**

WUE Program, water education calendar, and Green Business Program brochures

\$ 10,000

\$ 10,000

##### **51803-Other Contract Services**

Water Education Bus Contract to shuttle kids from school to field study sites

\$ 37,600

Green Business Program: Funding to staff the Green Business Coordinator Position which provides water assessments for local Businesses pursuing the Green Business certification

\$ 50,000

\$ 87,600

##### **52071-Materials and Supplies Expense**

Teaching aids, pH strips, fabric for displays, youth outreach displays

\$ 25,000

\$ 25,000

3/4/2016

## Water Transmission Budget

2016-17

### Itemized Detail for Subfunds Consulting/Contractual Services

	Budget FY 16-17
<b><u>52091-Memberships/Certifications</u></b>	
Irrigation Association Certificate Renewals, Water Education Foundation, and CUWCC	\$ 10,000
	<u>\$ 10,000</u>
<b><u>52171-Water Conservation Program</u></b>	
Sonoma County Fair: Materials and hardware that are WUE focused for distribution at the Sonoma County fair	\$ 20,000
Saving Water Partnership Wholesaler Support and Garden Sense: Media campaign for the Sonoma-Marin Saving Water Partnership including media ad buy, ad development, photographer	\$ 185,000
School Education Program: Assembly program, port-a-potties, steelhead in the classroom program, youth outreach events, teacher program, English as a second language program, educational workbooks, maps	\$ 250,000
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	\$ 40,000
Seminars, Workshops, Training: As regional liaison attend meetings of the CUWCC Board, Alliance for Water Efficiency, Green Building Standards Commission, Independent Technical Panel on Demand Management Measures, CA Science Teachers Association, environmental education conference; includes cost for contractor participation in various studies such as CA Single Family End Use Study and the Demand Elasticity Study	\$ 27,500
GardenSoft Licensing: Licensing of online Water Wise Gardening plant palette that is specific to Sonoma and Marin Counties	\$ 3,000
	<u>\$ 525,500</u>
Total	\$ 658,100



**Water Transmission System Agency Fund**  
**Local Supply / Recycled Water / Tier 2 Programs**

**Balance as of January 12, 2016**

<i>Contractor</i>	<i>10-Year Allocation</i>	<i>Amount Approved by WAC</i>	<i>Amount Disbursed</i>	<i>Balance Available<sup>1</sup></i>	<i>Encumbered</i>
Santa Rosa	\$5,065,236	\$4,003,876	\$3,908,003	1,157,233	
Petaluma	2,197,913	2,197,913	2,197,913	0	
MMWD	1,724,026	1,724,026	1,000,000	724,026	
NMWD	1,846,726	1,846,726	1,846,726	0	
Rohnert Park	649,629	649,629	649,629	0	
VOM WD	627,875	627,875	627,875	0	
Sonoma	539,411	539,411	539,411	0	
Windsor	86,996	86,996	86,996	0	
Cotati	157,235	157,235	157,235	0	
Forestville	104,953	104,953	104,953	0	
<b>TOTAL</b>	<b>\$13,000,000</b>	<b>\$11,938,640</b>	<b>\$11,118,740</b>	<b>\$1,881,260</b>	

1. Balance Available based on 10-Year Allocation

*Program started June 30, 2000 - No end date specified.*

**FY 2016-17 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:  
Section/Fund No:

Santa Rosa Aqueduct Capital Fund
44230

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>2,481,053</b>	<b>2,948,291</b>		<b>5,763,212</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	15,217	10,800	10,800	15,000	4,200	38.89%
44003 Other Interest Earnings	63,719	33,300	90,130	0	(90,130)	(100.00%)
44050 Unrealized Gains & Losses	(13,073)	(13,863)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>65,863</b>	<b>30,237</b>	<b>100,930</b>	<b>15,000</b>	<b>(85,930)</b>	<b>(85.14%)</b>

**MISCELLANEOUS REVENUES**

46040 Miscellaneous Revenue	0	0	0	0	0	N/A
46021 Capital Grants - Federal	13,334	0	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
	0	0	0	0	0	
<b>SUBTOTAL</b>	<b>13,334</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**ADMINISTRATIVE CONTROL ACCOUNT**

49002 Advances	0	1,600,000	42,297	0	(42,297)	(100.00%)
49003 Advances Clearing	0	(1,600,000)	(42,297)	0	42,297	(100.00%)
<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**

47102 Transfers In - btw Govtl	346,630	1,284,684	433,323	367,478	(65,845)	(15.20%)
<b>SUBTOTAL</b>	<b>346,630</b>	<b>1,284,684</b>	<b>433,323</b>	<b>367,478</b>	<b>(65,845)</b>	<b>(15.20%)</b>
<b>TOTAL REVENUES</b>	<b>425,827</b>	<b>1,314,920</b>	<b>534,253</b>	<b>382,478</b>	<b>(151,775)</b>	<b>(28.41%)</b>

**EXPENDITURES**

**FIXED ASSETS**

19820 Machinery and Equipment	0	0	0	0		
19822 Mobile Equipment	0	0	0	0		
19824 Computer Equipment	0	0	0	0		
19831 CIP - Bldg & Impr	0	0	0	0		
19832 CIP - Infrastructure	0	100,000	415,000	10,000	(405,000)	(97.59%)
19840 Work in Progress - Eqt	0	0	0	0		
19841 Work in Progress - Intar	0	0	0	0		
19851 Intangible Assets - Non-	0	0	0	0		
<b>SUBTOTAL</b>	<b>0</b>	<b>100,000</b>	<b>415,000</b>	<b>10,000</b>	<b>(405,000)</b>	<b>(97.59%)</b>

**OTHER FINANCING USES**

57012 Transfers Out - btw Gov	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>0</b>	<b>100,000</b>	<b>415,000</b>	<b>10,000</b>	<b>(405,000)</b>	<b>(97.59%)</b>
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**Adjustments to Reserves/Encumbrances:**

Repayment of Loan to Storage	28,338	1,600,000	
Unrealized Gain/ Loss (GASB 31)	13,073		
Rounding		0	

<b>ENDING FUND BALANCE</b>	<b>2,948,291</b>	<b>5,763,212</b>	<b>6,135,690</b>
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**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Petaluma Aqueduct Capital Fund

Section/Fund No:

44235

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>2,127,499</b>	<b>2,591,333</b>		<b>7,341,593</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Ca	13,182	15,000	15,000	15,000	0	0.00%
44003 Other Interest Earning	163,281	85,270	163,281	0	(163,281)	(100.00%)
44050 Unrealized Gains & L	(11,310)	(7,000)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>165,154</b>	<b>93,270</b>	<b>178,281</b>	<b>15,000</b>	<b>(163,281)</b>	<b>(91.59%)</b>

**ADMINISTRATIVE CONTROL ACCOUNT**

49002 Advances	0	4,100,000	72,616	0	(72,616)	(100.00%)
49003 Advances Clearing	0	(4,100,000)	(72,616)	0	72,616	(100.00%)
<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**

47102 Transfers In - btw Gov	214,754	646,990	273,495	252,060	(21,435)	(7.84%)
<b>SUBTOTAL</b>	<b>214,754</b>	<b>646,990</b>	<b>273,495</b>	<b>252,060</b>	<b>(21,435)</b>	<b>(7.84%)</b>
<b>TOTAL REVENUES</b>	<b>379,908</b>	<b>740,260</b>	<b>451,776</b>	<b>267,060</b>	<b>(184,716)</b>	<b>(40.89%)</b>

**EXPENDITURES**

**OTHER CHARGES**

53103 Interest on LT Debt	0	0	0	0		
53105 Costs of Issuance	0	0	0	0		
53403 Loss - Disposed Capi	3,025,751	0	0	0		
<b>SUBTOTAL</b>	<b>3,025,751</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**FIXED ASSETS**

19820 Machinery and Equipr	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	0	90,000	350,000	30,000	(320,000)	(91.43%)
19840 Work in Progress - Ec	0	0	0	0	0	N/A
19841 Work in Progress - Inf	0	0	0	0	0	N/A
19851 Intangible Assets - Nc	0	0	0	0		
<b>SUBTOTAL</b>	<b>0</b>	<b>90,000</b>	<b>350,000</b>	<b>30,000</b>	<b>(320,000)</b>	<b>(91.43%)</b>

Section Title:

Petaluma Aqueduct Capital Fund

Section/Fund No:

44235

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw G	0	0	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
 TOTAL EXPENDITURES	 3,025,751	 90,000	 350,000	 30,000	 (320,000)	 (91.43%)

**Adjustments to Reserves/Encumbrances:**

Loss on Fixed Asset	3,025,751	0
Principal Received on Loan	72,616	4,100,000
Unrealized Gain/ Loss (GASB 31)	11,310	0

<b>ENDING FUND BALANCE</b>	<b>2,591,333</b>	<b>7,341,593</b>	<b>7,578,652</b>
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**FY 2016-17 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Capital Fund

Section/Fund No:

44240

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>104,892</b>	<b>(13,722)</b>		<b>719,491</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	610	328	1,200	600	(600)	(50.00%)
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains & Losses	(358)	(500)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>252</b>	<b>(172)</b>	<b>1,200</b>	<b>600</b>	<b>(600)</b>	<b>(50.00%)</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Func	123,089	970,687	144,204	428,105	283,901	196.87%
<b>SUBTOTAL</b>	<b>123,089</b>	<b>970,687</b>	<b>144,204</b>	<b>428,105</b>	<b>283,901</b>	<b>196.87%</b>
<b>TOTAL REVENUES</b>	<b>123,341</b>	<b>970,515</b>	<b>145,404</b>	<b>428,705</b>	<b>283,301</b>	<b>194.84%</b>
<b>EXPENDITURES</b>						
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	0	0	0	0		
53104 Other Interest Expense	(33,321)	0	0	0		
53105 Costs of Issuance	0	0	0	0		
<b>SUBTOTAL</b>	<b>(33,321)</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	197,912	296,000	590,000	400,000	(190,000)	(32.20%)
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		
<b>SUBTOTAL</b>	<b>197,912</b>	<b>296,000</b>	<b>590,000</b>	<b>400,000</b>	<b>(190,000)</b>	<b>(32.20%)</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fun	185,000	0	50,000	0	(50,000)	(100.00%)
<b>SUBTOTAL</b>	<b>185,000</b>	<b>0</b>	<b>50,000</b>	<b>0</b>	<b>(50,000)</b>	<b>(100.00%)</b>
<b>TOTAL EXPENDITURES</b>	<b>349,591</b>	<b>296,000</b>	<b>640,000</b>	<b>400,000</b>	<b>(240,000)</b>	<b>(37.50%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Technical Adjustments		(14,559)				
Outstanding Encumbrances - Net Change	133,528	73,257				
Capitalized Interest	(33,321)					
Unrealized Gain/ Loss (GASB 31)	7,071					
Unrealized Gain/ Loss (GASB 31)	358					
<b>ENDING FUND BALANCE</b>	<b>(13,722)</b>	<b>719,491</b>		<b>748,196</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: Storage Facilities

Section/Fund No: 44250

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>412,924</b>	<b>169,306</b>		<b>338,592</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	2,721	1,110	1,110	1,200	90	8.11%
44050 Unrealized Gains & Losses	(3,762)	(1,100)	1,110	1,200	90	8.11%
<b>SUBTOTAL</b>	<b>(1,040)</b>	<b>10</b>	<b>2,220</b>	<b>2,400</b>	<b>180</b>	<b>8.11%</b>

**MISCELLANEOUS REVENUE**

46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	0	100,000	0	0		
46022 Capital Grants - State (Petaluma AQ - Caltrans Project)	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**Administrative Control**

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**

47102 Transfers In - btw Govtl Funds	120,000	2,400,000	110,000	950,000	840,000	763.64%
<b>SUBTOTAL</b>	<b>120,000</b>	<b>2,400,000</b>	<b>110,000</b>	<b>950,000</b>	<b>840,000</b>	<b>763.64%</b>

<b>TOTAL REVENUES</b>	<b>118,960</b>	<b>2,500,010</b>	<b>112,220</b>	<b>952,400</b>	<b>840,180</b>	<b>748.69%</b>
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**EXPENDITURES**

**OTHER CHARGES**

53103 Interest on LT Debt	63,719	63,719	63,719	0	(63,719)	(100.00%)
53104 Other Interest Expense	(139,024)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(75,305)</b>	<b>63,719</b>	<b>63,719</b>	<b>0</b>	<b>(63,719)</b>	<b>(100.00%)</b>

**FIXED ASSETS**

19831 CIP - Bldg & Impr	0	0	0	0	0	N/A
19832 CIP - Infrastructure	292,232	460,000	50,000	1,177,000	1,127,000	2254.00%
19841 Acq-WIP-Intangibles	3,378	1,000	0	0	0	N/A
19851 Intangible Assets - Non-amort	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>295,610</b>	<b>461,000</b>	<b>50,000</b>	<b>1,177,000</b>	<b>1,127,000</b>	<b>2254.00%</b>

Section Title:

Storage Facilities

Section/Fund No:

44250

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>ADMINISTRATIVE CONTROL ACCOUNT</b>						
59002 Advances	0	1,600,000	0	0	0	N/A
59003 Advances Clearing	0	(1,600,000)	0	0	0	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>OTHER FINANCING USES</b>						
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>220,305</b>	<b>524,719</b>	<b>113,719</b>	<b>1,177,000</b>	<b>1,063,281</b>	<b>935.01%</b>

Adjustments to Reserves/Encumbrances:

Technical Adjustments		(303,233)
Repayment of Loan from SR Aqueduct Capital		(1,600,000)
Princ. Pymnt on loan from SR Aqueduct	(28,338)	(28,338)
Outstanding Encumbrances - Net Chang	21,328	125,566
Capitalized Interest	(139,024)	0
Unrealized Gain/ Loss (GASB 31)	3,762	0

<b>ENDING FUND BALANCE</b>	<b>169,306</b>	<b>338,592</b>	<b>113,992</b>
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**FY 2016-17 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title: Common Facilities

Section/Fund No: 44260

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>16,782,237</b>	<b>5,101,775</b>		<b>682,231</b>		

**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	79,186	40,000	6,000	42,000	36,000	600.00%
44003 Other Interest Earnings	0	(25,000)	0	0	0	N/A
44050 Unrealized Gains & Los	(119,545)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(40,359)</b>	<b>15,000</b>	<b>6,000</b>	<b>42,000</b>	<b>36,000</b>	<b>600.00%</b>

**CHARGES FOR SERVICES**

45062 Construct/Bldg Permit F	300	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**MIECELLANEOUS REVENUES**

46021 Capital Grants - Federal	224,629	1,936,271	0	4,759,578	4,759,578	N/A
46022 Capital Grants - State	1,108,317	800,000	0	0	0	N/A
46029 Donations/Contributions	0	0	0	0	0	N/A
46040 Miscellaneous Revenue	469	100	0	0	0	N/A
46041 Discounts Earned	193	200	0	0	0	N/A
46200 Revenue Appl PY Misc	438	30,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>1,334,046</b>	<b>2,766,571</b>	<b>0</b>	<b>4,759,578</b>	<b>4,759,578</b>	<b>N/A</b>

**ADMINISTRATIVE CONTROL**

49002 Advances	0	0	0	141,510	141,510	N/A
49003 Advances Clearing	0	0	0	(141,510)	(141,510)	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**

47102 Transfers In - btw Govtl	5,767,127	8,970,000	6,880,000	7,491,422	611,422	8.89%
<b>SUBTOTAL</b>	<b>5,767,127</b>	<b>8,970,000</b>	<b>6,880,000</b>	<b>7,491,422</b>	<b>611,422</b>	<b>8.89%</b>

<b>TOTAL REVENUES</b>	<b>7,061,115</b>	<b>11,751,571</b>	<b>6,886,000</b>	<b>12,293,000</b>	<b>5,407,000</b>	<b>78.52%</b>
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**EXPENDITURES**

**OTHER CHARGES**

53103 Interest on LT Debt	163,281	160,526	163,281	0	(163,281)	(100.00%)
53104 Other Interest Expense	(495,178)	0	0	0	0	N/A
53403 Loss - Disposed Capital	7,843,629	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>7,511,732</b>	<b>160,526</b>	<b>163,281</b>	<b>0</b>	<b>(163,281)</b>	<b>(100.00%)</b>

**FIXED ASSETS**

19810 Land	0	0	0	0	0	N/A
19831 CIP - Bldg & Impr	2,245,961	900,000	0	0	0	N/A
19832 CIP - Infrastructure	9,870,077	12,182,234	7,240,000	12,871,000	5,631,000	77.78%



## Section Title:

Common Facilities

## Section/Fund No:

44260

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
19840 Acq-WIP-Equipment	0	0	0	0	0	N/A
19841 Work in Progress - Intar	23,557	150,000	0	0	0	N/A
19851 Intangible Assets - Non-	0	10,000	0	0	0	N/A
<b>SUBTOTAL</b>	<b>12,139,595</b>	<b>13,242,234</b>	<b>7,240,000</b>	<b>12,871,000</b>	<b>5,631,000</b>	<b>77.78%</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Gov	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	4,100,000	72,616	0	(72,616)	(100.00%)
59003 Advances Clearing	0	(4,100,000)	(72,616)	0	72,616	(100.00%)
<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>19,651,327</b>	<b>13,402,760</b>	<b>7,403,281</b>	<b>12,871,000</b>	<b>5,467,719</b>	<b>73.86%</b>

## Adjustments to Reserves/Encumbrances:

Technical Adjustments	0	(5,475,840)
Principal payment on Loan from Petal	(72,616)	(4,100,000)
Outstanding Encumbrances - Net Chg	(5,972,724)	6,807,486
Capitalized Interest	(495,178)	
PY CIP adjustment - reclass to PY Ex	7,843,629	
Post Audit Adjustment - Payables	(512,907)	
Unrealized Gain/ Loss (GASB 31)	119,545	
Rounding	1	(0)

<b>ENDING FUND BALANCE</b>	<b>5,101,775</b>	<b>682,231</b>	<b>104,231</b>
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**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title: North Marin Water Deposit

Section/Fund No: 44300

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
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<b>BEGINNING FUND BALANCE</b>	<b>12,923</b>	<b>13,025</b>		<b>13,026</b>		
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**REVENUES**

**USE OF MONEY / PROPERTY**

44002 Interest on Pooled Cash	102	101	101	101	(0)	(0.20%)
44050 Unrealized Gains and Losses	(94)	(100)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>8</b>	<b>1</b>	<b>101</b>	<b>101</b>	<b>(0)</b>	<b>(0.20%)</b>

**Intergovernmental Revenue**

42610 Other Governmental Agencies	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**

47102 Transfers In - 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 REVENUES</b>	<b>8</b>	<b>1</b>	<b>101</b>	<b>101</b>	<b>(0)</b>	<b>(0.20%)</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**

57012 Transfers Out - btw Govtl Fur	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>0</b>	<b>0</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)	94	0				
Rounding		(0)				

<b>ENDING FUND BALANCE</b>	<b>13,025</b>	<b>13,026</b>		<b>13,127</b>		
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**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Debt Service Fund

Section/Fund No:

44265

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$181,394</b>	<b>\$22,283</b>		<b>\$22,284</b>		
<b>REVENUES</b>						
<u>USE OF MONEY / PROPERTY</u>						
44002 Interest on Pooled Cash	4,830	2,600	1,500	4,200	2,700	180.00%
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(4,494)	(2,600)	0	0	0	N/A
SUBTOTAL	336	0	1,500	4,200	2,700	180.00%
<u>OTHER FINANCING SOURCES</u>						
47102 Transfers In - btw Govtl Funds	1,196,268	1,040,238	1,040,234	1,040,238	4	0.00%
SUBTOTAL	1,196,268	1,040,238	1,040,234	1,040,238	4	0.00%
<b>TOTAL REVENUES</b>	<b>1,196,604</b>	<b>1,040,238</b>	<b>1,041,734</b>	<b>1,044,438</b>	<b>2,704</b>	<b>0.26%</b>
<b>EXPENDITURES</b>						
<u>OTHER CHARGES</u>						
53103 Interest on LT Debt	329,865	309,884	309,880	289,340	(20,540)	(6.63%)
SUBTOTAL	329,865	309,884	309,880	289,340	(20,540)	(6.63%)
<u>OTHER FINANCING USES</u>						
57012 Transfers Out - btw Govtl Fund	300,000	0	0	0	0	N/A
SUBTOTAL	300,000	0	0	0	0	N/A
<u>ADMIN. CONTROL ACCOUNT</u>						
59002 Advances	710,369	730,354	0	750,898	750,898	N/A
59003 Advances Clearing	(710,369)	(730,354)	0	(750,898)	(750,898)	N/A
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>629,865</b>	<b>309,884</b>	<b>309,880</b>	<b>289,340</b>	<b>(20,540)</b>	<b>(6.63%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on loan	(710,369)					
(Increase) / Decrease in Principal Payable	(19,977)	(730,354)		(730,354)		
Unrealized Gain/ Loss (GASB 31)	4,494					
Rounding	3	0				
<b>ENDING FUND BALANCE</b>	<b>\$22,283</b>	<b>\$22,284</b>		<b>\$47,028</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

State Loan Reserve Fund

Section/Fund No:

44270

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>		

**REVENUES**

USE OF MONEY / PROPERTY

44002 Interest on Pooled Cash	7,391	0	0	0	0	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(6,844)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>547</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

OTHER FINANCING SOURCES

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>N/A</b>
<b>TOTAL REVENUES</b>	<b>547</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**EXPENDITURES**

OTHER FINANCING USES

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>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>N/A</b>

**Adjustments to Reserves/Encumbrances:**

Increase in Reserve	(7,391)	0		0		
Unrealized Gain/ Loss (GASB 31)	6,844					
Rounding	0					

<b>ENDING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>		
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**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bond - 2012A

Section/Fund No:

44280

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$12,510</b>	<b>\$8,334</b>		<b>\$84,207</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	213	40	90	90	0	0.00%
44003 Other Interest Earnings	43	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(70)	(200)	0	0	0	N/A
<b>SUBTOTAL</b>	<b>186</b>	<b>(160)</b>	<b>90</b>	<b>90</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	318,555	350,191	309,785	272,526	(37,259)	(12.03%)
<b>SUBTOTAL</b>	<b>318,555</b>	<b>350,191</b>	<b>309,785</b>	<b>272,526</b>	<b>(37,259)</b>	<b>(12.03%)</b>
<b>TOTAL REVENUES</b>	<b>318,741</b>	<b>350,031</b>	<b>309,875</b>	<b>272,616</b>	<b>(37,259)</b>	<b>(12.02%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	820	2,500	2,500	2,500	0	0.00%
<b>SUBTOTAL</b>	<b>820</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	115,276	116,382	116,382	114,876	(1,506)	(1.29%)
53105 Costs of Issuance	(4,781)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>110,496</b>	<b>116,382</b>	<b>116,382</b>	<b>114,876</b>	<b>(1,506)</b>	<b>(1.29%)</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	60,000	0	40,000	0	(40,000)	(100.00%)
<b>SUBTOTAL</b>	<b>60,000</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>(40,000)</b>	<b>(100.00%)</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	147,393	150,496	150,496	155,150	4,654	3.09%
59005 Admin Control Acct Clearing	(147,393)	(150,496)	(150,496)	(155,150)	(4,654)	3.09%
<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>171,316</b>	<b>118,882</b>	<b>158,882</b>	<b>117,376</b>	<b>(41,506)</b>	<b>(26.12%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(147,252)	(150,496)		(155,150)		
Restricted cash with trustee (reserve)	501					
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		
Unrealized Gain/ Loss (GASB 31)	(70)					
Rounding		0				
<b>ENDING FUND BALANCE</b>	<b>\$8,334</b>	<b>\$84,207</b>		<b>\$79,516</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Common Facilities Revenue Bonds - 2012 A

Section/Fund No:

44275

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>\$47,211</b>	<b>\$24,508</b>		<b>\$48,868</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	448	300	300	240	(60)	(20.00%)
44003 Other Interest Earnings	60	(400)	0	0	0	N/A
44050 Unrealized Gains and Losses	(68)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>440</b>	<b>(100)</b>	<b>300</b>	<b>240</b>	<b>(60)</b>	<b>(20.00%)</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	444,963	413,871	432,683	380,655	(52,028)	(12.02%)
<b>SUBTOTAL</b>	<b>444,963</b>	<b>413,871</b>	<b>432,683</b>	<b>380,655</b>	<b>(52,028)</b>	<b>(12.02%)</b>
<b>TOTAL REVENUES</b>	<b>445,403</b>	<b>413,771</b>	<b>432,983</b>	<b>380,895</b>	<b>(52,088)</b>	<b>(12.03%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,072	2,500	2,500	2,500	0	0.00%
<b>SUBTOTAL</b>	<b>1,072</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	161,417	163,013	163,013	160,905	(2,108)	(1.29%)
53105 Costs of Issuance	(6,645)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>154,772</b>	<b>163,013</b>	<b>163,013</b>	<b>160,905</b>	<b>(2,108)</b>	<b>(1.29%)</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	100,000	0	110,000	0	(110,000)	(100.00%)
<b>SUBTOTAL</b>	<b>100,000</b>	<b>0</b>	<b>110,000</b>	<b>0</b>	<b>(110,000)</b>	<b>(100.00%)</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	204,215	210,733	210,733	217,250	6,517	3.09%
59005 Admin Control Acct Clearing	(204,215)	(210,733)	(210,733)	(217,250)	(6,517)	3.09%
<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>255,844</b>	<b>165,513</b>	<b>275,513</b>	<b>163,405</b>	<b>(112,108)</b>	<b>(40.69%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Principal payments on bonds	(204,215)	(210,733)		(217,250)		
Proceeds from issuance	0	0		0		
2003A Bond Redemption	0	0		0		
2003A Deferred amount of refunding	0	0		0		
Underwriters Discount	0	0		0		
Reclass of good faith on refunding to LT Bond	0	0		0		
Debt Issuance Costs	0	0		0		
(Increase) / Decrease in Bonds Payable	(2,173)	(6,518)		54,269		
Restricted cash with trustee (reserve)	702	0		0		
Amortization of bond discount	0	0		0		
Amortization of bond premium	(14,432)	(14,432)		(14,432)		
Amortization of bond issuance costs	0	0		0		
Amortization of deferred amount of refunding	7,787	7,787		7,787		
Unrealized Gain/ Loss (GASB 31)	68	0		0		
Rounding	0	(1)		0		
<b>ENDING FUND BALANCE</b>	<b>\$24,508</b>	<b>\$48,868</b>		<b>\$96,732</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2012

Section/Fund No:

44285

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$197,914</b>	<b>\$104,236</b>		<b>\$95,156</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	1,297	700	1,200	360	(840)	(70.00%)
44003 Other Interest Earnings	35	(700)	0	0	0	N/A
44050 Unrealized Gains and Losses	(971)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>362</b>	<b>0</b>	<b>1,200</b>	<b>360</b>	<b>(840)</b>	<b>(70.00%)</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	262,316	222,929	255,333	225,519	(29,814)	(11.68%)
<b>SUBTOTAL</b>	<b>262,316</b>	<b>222,929</b>	<b>255,333</b>	<b>225,519</b>	<b>(29,814)</b>	<b>(11.68%)</b>
<b>TOTAL REVENUES</b>	<b>262,678</b>	<b>222,929</b>	<b>256,533</b>	<b>225,879</b>	<b>(30,654)</b>	<b>(11.95%)</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	711	3,400	2,500	3,400	900	36.00%
<b>SUBTOTAL</b>	<b>711</b>	<b>3,400</b>	<b>2,500</b>	<b>3,400</b>	<b>900</b>	<b>36.00%</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	94,807	95,757	95,757	94,519	(1,238)	(1.29%)
53105 Costs of Issuance	(3,892)	5,187	0	0	0	N/A
<b>SUBTOTAL</b>	<b>90,915</b>	<b>100,944</b>	<b>95,757</b>	<b>94,519</b>	<b>(1,238)</b>	<b>(1.29%)</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	141,000	0	90,000	0	(90,000)	(100.00%)
<b>SUBTOTAL</b>	<b>141,000</b>	<b>0</b>	<b>90,000</b>	<b>0</b>	<b>(90,000)</b>	<b>(100.00%)</b>
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	119,944	123,772	123,772	127,600	3,828	3.09%
59005 Admin Control Acct Clearing	(119,944)	(123,772)	(123,772)	(127,600)	(3,828)	3.09%
<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>232,626</b>	<b>104,344</b>	<b>188,257</b>	<b>97,919</b>	<b>(90,338)</b>	<b>(47.99%)</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
(Increase)/Decrease in Bonds Payable						
Principal Payments on Bonds	(119,944)	(123,772)		(127,600)		
Principal payments on bonds	0	0		0		
Proceeds from issuance	0	0		0		
(Increase) / Decrease in Bonds Payable	(1,276)	0		0		
Restricted cash with trustee (reserve)	412	0		0		
Amortization of bond discount	(8,477)	(8,477)		(8,477)		
Amortization of bond issuance costs	0	0		0		
Amortization of deferred amount of refunding	4,584	4,584		4,584		
Unrealized Gain/ Loss (GASB 31)	971	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$104,236</b>	<b>\$95,156</b>		<b>\$91,623</b>		

**FY 2016-17 BUDGET**  
**BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Storage Facilities Revenue Bonds 2015

Section/Fund No:

44290

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$413</b>	<b>\$4,883</b>		<b>\$1,033,493</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	70	3,400	180	180	0	0.00%
44003 Other Interest Earnings	64	(200)	0	0	0	N/A
44050 Unrealized Gains and Losses	(163)	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>(29)</b>	<b>3,200</b>	<b>180</b>	<b>180</b>	<b>0</b>	<b>0.00%</b>
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	449,721	802,074	443,972	816,463	372,491	83.90%
<b>SUBTOTAL</b>	<b>449,721</b>	<b>802,074</b>	<b>443,972</b>	<b>816,463</b>	<b>372,491</b>	<b>83.90%</b>
<b>TOTAL REVENUES</b>	<b>449,692</b>	<b>805,274</b>	<b>444,152</b>	<b>816,643</b>	<b>372,491</b>	<b>83.87%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,376	1,750	2,500	1,520	(980)	(39.20%)
<b>SUBTOTAL</b>	<b>1,376</b>	<b>1,750</b>	<b>2,500</b>	<b>1,520</b>	<b>(980)</b>	<b>(39.20%)</b>
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	241,334	182,126	235,628	261,453	25,825	10.96%
53105 Costs of Issuance	(2,223)	77,633	0	0	0	N/A
<b>SUBTOTAL</b>	<b>239,111</b>	<b>259,759</b>	<b>235,628</b>	<b>261,453</b>	<b>25,825</b>	<b>10.96%</b>
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	60,000	2,400,000	70,000	950,000	880,000	1257.14%
<b>SUBTOTAL</b>	<b>60,000</b>	<b>2,400,000</b>	<b>70,000</b>	<b>950,000</b>	<b>880,000</b>	<b>1257.14%</b>
59004 Administrative Control Account	142,651	540,565	147,935	553,490	405,555	274.14%
59005 Admin Control Acct Clearing	(142,651)	(540,565)	(147,935)	(553,490)	(405,555)	274.14%
<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>300,487</b>	<b>2,661,509</b>	<b>308,128</b>	<b>1,212,973</b>	<b>904,845</b>	<b>293.66%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Technical Adjustments						
Proceeds from Bond Issuance		1,750,000				
Proceeds from Taxable Bond Issuance		1,600,000				
Deposit to Cost of Issuance Fund		77,633				
Restricted Cash w/Fiscal Agent	(24)					
Principal Payment	(142,325)	(540,565)		(553,490)		
Amortization of Bond Premium	(2,223)	(2,223)		(2,223)		
Unrealized Gain/ Loss (GASB 31)	(163)					
Rounding	1	(0)				
<b>ENDING FUND BALANCE</b>	<b>\$4,883</b>	<b>\$1,033,493</b>		<b>\$81,450</b>		



**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

**Common Facilities Revenue Bonds 2015**

Section/Fund No:

**44295**

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEG. FUND BALANCE</b>	<b>(\$40)</b>	<b>\$7,785</b>		<b>\$4,198,549</b>		
<b>REVENUES</b>						
<b>USE OF MONEY / PROPERTY</b>						
44002 Interest on Pooled Cash	59	7,000	180	1,200	1,020	566.67%
44003 Other Interest Earnings	57	0	0	0	0	N/A
44050 Unrealized Gains and Losses	(148)	(160)	0	0	0	N/A
SUBTOTAL	(32)	6,840	180	1,200	1,020	566.67%
<b>OTHER FINANCING SOURCES</b>						
47102 Transfers In - btw Govtl Funds	401,787	888,659	396,655	648,713	252,058	63.55%
SUBTOTAL	401,787	888,659	396,655	648,713	252,058	63.55%
<b>TOTAL REVENUES</b>	<b>401,755</b>	<b>895,499</b>	<b>396,835</b>	<b>649,913</b>	<b>253,078</b>	<b>63.77%</b>
<b>EXPENDITURES</b>						
<b>SERVICES AND SUPPLIES</b>						
51242 Bank Charges	1,262	9,150	2,500	9,380	6,880	275.20%
SUBTOTAL	1,262	9,150	2,500	9,380	6,880	275.20%
<b>OTHER CHARGES</b>						
53103 Interest on LT Debt	215,445	339,166	210,352	497,823	287,471	136.66%
53105 Costs of Issuance	(1,984)	405,908	0	0	0	N/A
SUBTOTAL	213,461	745,074	210,352	497,823	287,471	136.66%
<b>OTHER FINANCING USES</b>						
57012 Transfers Out - btw Govtl Fund	50,000	5,370,000	100,000	3,780,000	3,680,000	3680.00%
SUBTOTAL	50,000	5,370,000	100,000	3,780,000	3,680,000	3680.00%
<b>ADMIN. CONTROL ACCOUNT</b>						
59004 Administrative Control Account	127,349	134,435	132,065	141,510	9,445	7.15%
59005 Admin Control Acct Clearing	(127,349)	(134,435)	(132,065)	(141,510)	(9,445)	7.15%
SUBTOTAL	0	0	0	0	0	N/A
<b>TOTAL EXPENDITURES</b>	<b>264,723</b>	<b>6,124,224</b>	<b>312,852</b>	<b>4,287,203</b>	<b>3,974,351</b>	<b>1270.36%</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Proceeds Bond Issuance	0	9,150,000		0		
Cost of Issuance	0	405,908		0		
Restricted Cash w/Fiscal Agent	(22)	0		0		
Principal Payment	(127,053)	(134,435)		(141,510)		
Amortization of Bond Premium	(1,984)	(1,984)		(1,984)		
Amortization of Cost of Issuance	0	0		0		
Post Audit Adjustments - Closing COI	0	0		0		
Unrealized Gain/ Loss (GASB 31)	(148)	0		0		
Rounding		(0)		0		
<b>ENDING FUND BALANCE</b>	<b>\$7,785</b>	<b>\$4,198,549</b>		<b>\$417,765</b>		

**FY 2016-17 BUDGET  
BEGINNING AND ENDING CASH SUMMARY**

Section Title:

Sonoma Aqueduct Revenue Bonds 2015

Section/Fund No:

44305

Account Title	Actual 2014-15	Estimated 2015-16	Adopted 2015-16	Requested 2016-17	Difference	Percent Change
<b>BEGINNING FUND BALANCE</b>	<b>\$0</b>	<b>\$0</b>		<b>\$454,798</b>		
<b>REVENUES</b>						
<b><u>USE OF MONEY / PROPERTY</u></b>						
44002 Interest on Pooled Cash	0	6,000	0	15,000	15,000	N/A
44003 Other Interest Earnings	0	0	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>6,000</b>	<b>0</b>	<b>15,000</b>	<b>15,000</b>	<b>N/A</b>
<b><u>OTHER FINANCING SOURCES</u></b>						
47102 Transfers In - btw Govtl Funds	0	77,268	0	41,812	41,812	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>77,268</b>	<b>0</b>	<b>41,812</b>	<b>41,812</b>	<b>N/A</b>
<b>TOTAL REVENUES</b>	<b>0</b>	<b>83,268</b>	<b>0</b>	<b>56,812</b>	<b>56,812</b>	<b>N/A</b>
<b>EXPENDITURES</b>						
<b><u>SERVICES AND SUPPLIES</u></b>						
51242 Bank Charges	0	1,100	0	1,100	1,100	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>1,100</b>	<b>0</b>	<b>1,100</b>	<b>1,100</b>	<b>N/A</b>
<b><u>OTHER CHARGES</u></b>						
53103 Interest on LT Debt	0	27,370	0	40,712	40,712	N/A
53105 Costs of Issuance	0	48,798	0	0	0	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>76,168</b>	<b>0</b>	<b>40,712</b>	<b>40,712</b>	<b>N/A</b>
<b><u>OTHER FINANCING USES</u></b>						
57012 Transfers Out - btw Govtl Fund	0	700,000	0	300,000	300,000	N/A
<b>SUBTOTAL</b>	<b>0</b>	<b>700,000</b>	<b>0</b>	<b>300,000</b>	<b>300,000</b>	<b>N/A</b>
<b><u>ADMIN. CONTROL ACCOUNT</u></b>						
59004 Administrative Control Account	0	0	0	0	0	N/A
59005 Admin Control Acct 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>0</b>	<b>777,268</b>	<b>0</b>	<b>341,812</b>	<b>341,812</b>	<b>N/A</b>
<b>Adjustments to Reserves/Encumbrances:</b>						
Proceeds Bond Issuance	0	1,100,000		0		
Restricted Cash w/Fiscal Agent	0	0		0		
Principal Payment	0	0		0		
Deposit to Cost of Issuance Fund	0	48,798		0		
Unrealized Gain/ Loss (GASB 31)	0	0		0		
Rounding	0	0		0		
<b>ENDING FUND BALANCE</b>	<b>\$0</b>	<b>\$454,798</b>		<b>\$169,798</b>		

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY 16-17

**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	217,250			155,150	127,600
INTEREST	160,905			114,876	94,519
FISCAL AGENT FEES	2,500			2,500	3,400
DEBT ISSUANCE COSTS					
Total Individual Bond Payments	380,655	0		272,526	225,519
Bond Reserve		0			
<b>Total Individual Bond Debt Service</b>	<b>380,655</b>	<b>0</b>		<b>272,526</b>	<b>225,519</b>
<b>2015A Revenue Bond</b>	<b>44295</b>			<b>44290</b>	<b>44305</b>
PRINCIPAL	141,510			553,490	0
INTEREST	497,823			261,453	40,712
FISCAL AGENT FEES	9,380			1,520	1,100
Total Individual Bond Payments	648,713			816,463	41,812
Bond Reserve (fully funded)					
<b>Total Individual Bond Debt Service</b>	<b>648,713</b>			<b>816,463</b>	<b>41,812</b>
<b>2006A Revenue Bond</b>					
PRINCIPAL					
INTEREST					
FISCAL AGENT FEES					
Total Individual Bond Payments	0			0	0
Bond Reserve (fully funded)				0	0
<b>Total Individual Bond Debt Service</b>	<b>0</b>			<b>0</b>	<b>0</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>	
<b>1. 09/10 Financing Exp for Common Fac incl above until index established</b>	<b>Mirabel Generators</b>	<b>TBD - RRIFR</b>	<b>TBD - Water Ed Bldg</b>	<b>TBD - Oakmont Pipeline</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

REVENUE BOND / STATE LOAN CHARGES - WATER RATES AND ESTIMATED REVENUES FOR FY 16-17

**A. ANNUAL DEBT SERVICE REQUIREMENTS**

	Common Facilities	Watershed Plan Restoration	Water Conservation	Storage Facilities	Sonoma Pipeline Facilities
<b>Total Individual Financing Debt Service</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SRF LOAN</b>	<b>675,439</b>				
PRINCIPAL	750,898			N.A	N.A
INTEREST	289,340			N.A	N.A
USE OF SRF LOAN FUND BALANCE - 675,439					
Reserve Requirement	0				
<b>Total SRF Debt Service</b>	<b>1,040,238</b>				
<b>SRF LOAN RESERVE</b>					
RESERVE				N.A	N.A
<b>Total SRF Debt Service</b>	<b>1,040,238</b>				
<b>TOTAL DEBT SERVICE</b>	<b>\$2,069,606</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,088,989</b>	<b>\$267,331</b>
LESS REV. FROM N. MARIN REV. BOND CHARGES	256,411				
<b>REMAINING REVENUE REQUIREMENT</b>	<b>\$1,813,195</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,088,989</b>	<b>\$267,331</b>

**B. CALCULATIONS OF WATER RATES FOR FY 16-17**

	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	\$1,813,194.64	\$0	\$0	\$1,088,989	\$267,331
APPLICABLE BASE WATER DELIVERIES IN A.F.	30,351.48	40,452.5	40,452.5	30,351.48	3,539.3
<b>CHARGES PER ACRE-FEET</b>	<b>\$59.74</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$35.88</b>	<b>\$75.53</b>

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

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (Remaining Facilities per RA 4.3a2)	2,069,606
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (11.2/90.4))	256,411
ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)	5,002
NORTH MARIN REVENUE BONDS CHARGE	51.27

REVENUE REQUIREMENT FOR COMMON FACILITIES DEBT SERVICE (Additional Facilities per RA 4.3b9)	-
N. MARIN'S SHARE (REV. REQMT. FOR COMMON FAC. DEBT SERVICE X (19.9/146.2))	-
ESTIMATED WATER DELIVERIES TO NORTH MARIN (IN A.F.)	5,002
NORTH MARIN REVENUE BONDS CHARGE	0.01

<u>Common Facilities</u>			
Debt Service RA 4.3a2 (remaining facilities)	2,069,606		
N. Marin's Share (11.2/90.4)	256,411		
Estimated Water Deliveries to N. Marin	5,001.5		
Applicable portion of the N. Marin R. Bonds Charge	<b>\$51.27</b>		
		Total Revenue Required	\$2,069,606
		Debt service - Additional Facilities	0
		Revenue base for NMWD	\$2,069,606

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Debt Service RA 4.3b9 (additional facilities)	0		
N. Marin's Share (19.9/146.2)	-		
Estimated Water Deliveries to N. Marin	5,002		
Applicable portion of the N. Marin R. Bonds Charge	\$ -		
		Update formula for the lesser of three years or 12 months average delivery.	
Total NMWD Share	256,411		
NMWD Total Bonds Charge	<b>\$51.27</b>		



**FY 2016-17 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		367,478	6,135,690	6,135,690	0
Petaluma Aq. Capital Fund	44235	0		252,060	7,578,652	7,578,652	0
Sonoma Aq. Capital Fund	44240	0		428,105	748,196	748,196	0
Sonoma Rev Bond 2012 Fund	44285	0		225,519	91,623	91,623	0
Sonoma Rev Bond 2015 Fund	44305	300,000		41,812	169,798	169,798	0
Storage Rev Bond 2012 Fund	44280	0	Storage Facilities	272,526	79,516	79,516	0
Storage Rev Bond 2015 Fund	44290	950,000	Storage Facilities	816,463	81,450	81,450	0
Common Rev Bond 2012 Fund	44275	0	Common Facilities	380,655	96,732	96,732	(0)
Common Rev Bond 2015 Fund	44295	3,780,000	Common Facilities	648,713	417,765	417,765	0
State Loan Debt Service	44265	0		1,040,238	47,028	47,028	(0)
State Loan Reserve	44270	0		0	0	0	0
Capital Lease Financing		0		0	0	0	0
Agency Fund (Discretionary)	44205	3,711,422	Common Facilities	0	5,615,968	5,615,968	0
Agency Fund (Charges)	44205	10,010,829		0			
Pipeline Facilities	44255			0	0	0	0
Storage Facilities	44250			950,000	113,992	113,992	0
Common Facilities	44260			7,491,422	104,231	104,231	0
North Marin	44300			0	13,127	13,127	0
Water Management Planning	44210			123,200	355,217	355,217	(0)
Watershed Planning/Restoration	44215			3,350,000	1,179,464	1,179,464	0
Recycled Water & Local Supply	44220			665,000	12,468	12,468	(0)
Water Conservation	44225			1,699,059	556,871	556,871	0
<b>Total</b>		<b>18,752,251</b>		<b>18,752,251</b>	<b>23,397,787</b>	<b>23,397,787</b>	<b>0</b>

Common Facilities OT - in 47101 From

Water Transmission (discretionary)	3,711,422				<u>23357548</u>
Water Transmission (Charges)	-				<u>40,239</u>
North Marin	-		O&M Rate Computation		
2012 Bond Fund	-		Revenue Requirement - Transfers Out:		
2015 Bond Fund	3,780,000				
	<u>7,491,422</u>				<u>10,010,829</u>

Agency Fund (Charges) OT - Out To:

<u>AQ Capital Funds</u>			<u>Agency Fund (Charges) OT - Out To:</u>	
Santa Rosa Aq. Capital Fund	367,478		<u>Summary</u>	
Petaluma Aq. Capital Fund	252,060			
Sonoma Aq. Capital Fund	128,105		AQ Capital Funds	747,644
	<u>747,644</u>		Debt Service Funds	3,425,926
<u>Debt Service Funds</u>			WT Subfunds	5,837,259
Sonoma Rev Bond 2012 Fund	225,519			<u>10,010,829</u>
Sonoma Rev Bond 2015 Fund	41,812		Capital Funds and North Marin	3,711,422
Storage Rev Bond 2012 Fund	272,526			
Storage Rev Bond 2015 Fund	816,463		Total	<u>13,722,251</u>
Common Rev Bond 2012 Fund	380,655			
Common Rev Bond 2015 Fund	648,713			
State Loan Debt Service	1,040,238			
State Loan Reserve	0			
Capital Lease Financing	0			
	<u>3,425,926</u>			

Capital Funds and North Marin

Pipeline Facilities	0
Storage Facilities	0
Common Facilities	3,711,422
North Marin	0
	<u>3,711,422</u>

WT Subfunds

Water Management Planning	123,200
Watershed Planning/Restoration	3,350,000
Recycled Water & Local Supply	665,000
Water Conservation	1,699,059
	<u>5,837,259</u>

Total 13,722,251

*See Next Page for Bond Proceeds Summary*

## 2015A Water Revenue Bonds - Bond Proceeds Summary

<b>Sonoma Rev Bond 2015:</b>			<b>Bond Proceeds: 1,100,000</b>
<u>Transfer Out T Dollars</u>			<u>Projects</u>
FY16-17	Sonoma AQ	300,000	Sonoma Booster Station (SBS)
FY15-16	Capital Fund	700,000	Pumping/Elec Upgrades & Sonoma SBS
		<u>1,000,000</u>	- remainder for FY17-18
<b>Storage Rev Bond 2015 Fund</b>			<b>Bond Proceeds: 3,350,000</b>
<u>Transfer Out T Dollars</u>			<u>Projects</u>
FY16-17	Storage	950,000	Ralphine Tanks Flow Through Project
FY15-16	Facilities	2,400,000	Repay SR AQ Intrafund Loan and Ralphine Tanks Prj
		<u>3,350,000</u>	
<b>Common Rev Bond 2015 Fund</b>			<b>Bond Proceeds: 9,150,000</b>
<u>Transfer Out T Dollars</u>			<u>Projects</u>
FY16-17	Common	3,780,000	Mirabel Fish Screen, Mirabel Dam Bladder
FY15-16	Facilities	5,370,000	Replacement, Isolation Valaves, MW and
		<u>9,150,000</u>	RR Creek Crossings
			All project allocations are based on costs net of grant funds.



## **Russian River Biological Opinion Update – March 2016**

The Sonoma County Water Agency is continually planning and implementing the Russian River Biological Opinion requirements. The following project updates provide a brief synopsis of current work. For more detailed information about these activities, please visit [www.sonomacountywater.org](http://www.sonomacountywater.org).

### **Dry Creek Habitat Enhancement Project**

Site identification, environmental studies and topographic surveys are nearly complete for the second and third miles of habitat enhancement. Right-of-way staff are working closely with landowners on construction and maintenance easement issues. Two firms, Interfluv and ESA, are designing the second and third miles of habitat enhancement, respectively. The 90% plans for portions of Mile 2 have been submitted and are under review. The 90% plans for portions of Mile 3 are in progress.

The Water Agency has been working with NOAA's NMFS on a programmatic Dry Creek Safe Harbor Agreement (SHA) that would provide extra protection to landowners participating in the Dry Creek Habitat Enhancement Project. The SHA was signed on March 3.

### **Fish Monitoring**

The inflatable dam is not in use this year, due to the work on the Mirabel Fish Passage Improvement Project. Without the dam, the Water Agency cannot use the video monitors traditionally deployed to count migrating adult Chinook, steelhead and coho. Instead, the agency installed a type of sonar technology (known as DIDSON) at the mouth of Dry Creek and has installed a video monitor at the Healdsburg fish ladder. Water Agency staff has observed about 3,931 Chinook.

### **Mirabel Screen and Fish Ladder Replacement**

Construction has stopped and started several times during the winter, as the river has risen and fallen. It is anticipated that construction will be complete in late Spring.

### **Russian River Estuary Management Project**

- The 2015 Lagoon Management Period ended on October 15. The Water Agency did not have an opportunity to implement an outlet channel during the management period. Since the management period ended, the estuary has closed three times. Dangerous beach conditions during a closure in December prevented the Water Agency from breaching the sand bar and water levels rose to approximately 12 feet, inundating the Jenner Visitors Center and briefly interrupting traffic on Highway 1. The estuary self-breached on December 12.
- Baseline monitoring of harbor seals and other pinnipeds is conducted regularly and prior, during and after every artificial breaching. Water quality monitoring at datasonde stations has ended for the season. The Annual Pinniped Monitoring Volunteer Training is scheduled for April 5 and 6. Please spread the word, as volunteer numbers are low.
- Field investigations of the jetty are complete. The purpose of the studies are to determine if and how the jetty impacts the formation of the barrier beach and lagoon water surface elevation.

Consultants are currently analyzing data and preparing a report, which is expected to be released in April.

#### **Fish Flow Project**

Work is occurring internally on the preparation of the draft Environmental Impact Report for the Fish Habitat Flows and Water Rights Project. The EIR is being prepared by Water Agency staff, with assistance from consultants on some areas of impact analysis. A draft EIR is anticipated to be released in Summer 2016.

#### **Interim Flow Changes**

The most recent Temporary Urgency Change Petition expired on October 27. PG&E filed another variance with FERC to reduce flows in order to perform major maintenance on its penstock. Depending on levels in Lake Mendocino, the Water Agency may file another Temporary Urgency Change Petition (TUCP) with the State Water Board to preserve water in the lake. If a TUCP is not filed for hydrologic reasons, one will be filed in order to comply with the Biological Opinion.

#### **Public Outreach, Reporting & Legislation**

- The annual Public Policy Facilitating committee meeting was held on March 3. A total of about 80 people attended either the PPFC meeting or the Safe Harbor Agreement signing ceremony.
- The annual Estuary Community Meeting will be held on April 20, 6-8 p.m. at the Monte Rio Community Center.



*NMFS and Water Agency staff at Dry Creek Safe Harbor Agreement signing ceremony*



11

**DISBURSEMENTS - DATED MARCH 3, 2016**

Date Prepared 3/1/16

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	Aberegg, Michael	Progress Pymt #3: Drafting Services: Valley Memorial Park (Balance Remaining on Contract \$13,010)	\$500.00
2	American Family Life Ins	Feb Employee Contribution for Accident, Disability & Cancer Insurance	3,654.93
3	Baker, Jack	February Director's Fee (\$424), North Bay Watershed Assoc Meeting on 2/5/16 (\$212)	636.00
4	Bartley Pump	Well Pump Motor for Pt Reyes Well #2	3,031.00
5	Bay Area Barricade Service	Reflective Traffic Signs (10) ('07 Intl Dump Truck)	597.09
6	BlackPoint Tree Service	Remove Oak Limbs at San Marin Pump Station (\$1,300), Urgent Tree Removal at San Marin High School (\$875)	2,175.00
7	Bold & Polisner	Jan Legal Fees: Ethics Training (\$84), Marin Country Club (\$630), Quitclaim (\$105), RW Exp Central (\$168), SCWA (\$63), & Water Conservation (\$63)	1,113.00
8	California State Disbursement	Wage Assignment Order	859.87
9	CalPERS	March Health Insurance Premium (Employees \$50,085, Retirees \$11,148, & Employee Contribution \$13,356)	74,590.04
10	Caltest Analytical Laboratory	Lab Testing	35.00
11	Canihan, William	Claim Settlement-Damage Incurred due to 1/4/16 Atherton Ave Water Line Break-43 StoneTree Lane	1,340.58
12		Cafeteria Plan: Uninsured Medical Reimbursement	300.00
13	Cel Analytical	Lab Testing	375.00
14	Coast Counties Peterbilt	Brake Valve ('09 Peterbilt 335 Crew)	144.62

Seq	Payable To	For	Amount
15	Consolidated Plastics	Floor Mats: Front Office (1); Lab (3); Warehouse (2)	433.65
16	Contractors State Lic Board	Contractor's License Inactive Fee (3/16-3/20) (Arendell) (Budget \$700)	180.00
17	Core Utilities	Consulting Services: January IT Support (\$5,000), Program New Radios @ Crest Tank (\$775), New Coding for Chlorine Booster Pump (\$300), Program Ridge Road Firewall (\$225), Modify Core Programming (\$50), Website Modification (\$125), Review AMI Proposal (\$200)	6,675.00
18	Cummings Trucking	Rock (33 yds)	1,185.28
19	F.N. Cuthbert	Pressure Gauges (10)	194.74
20	DeGabriele, Chris	Expense Reimbursement: Feb Mileage	216.00
21	Dolson, Patricia	Novato "Toilet" Rebate	100.00
22		Vision Reimbursement	199.00
23	Fraites, Rick	February Director's Fee (\$636), Flood Control Zone 1 Advisory Board Watershed Program Update on 2/4/16 (\$212), SCWA Water Advisory Committee on 2/1/16 (\$212)	1,060.00
24	Ghilotti Construction	Prog Pymt#21: Partial Retention Release, Construct AEEP Reaches A-D/MSN B3 Project (Balance Remaining on Contract \$225,113)	347,631.76
25	Golden Gate Petroleum	Gasoline (\$1.98/gal) & Diesel (\$1.93/gal)	1,107.97
26	Grainger	Knee Boots, Tube Clamp Kit (4) (\$302), Replacement Smoke Alarms for Yard & Office (2) (\$81), Hard Hat	472.87
27	Groeniger	Meter Stops (22) (\$849), Couplings (17), 3" Bolts (600) (\$818), Couplings (12), Silent Check Valve (\$322)	2,427.48
28	Hadley, Larry	Refund Overpayment on Closed Account	50.02
29	Hardy Diagnostics	Lab Standards	127.45
30	Hechim, Gloria	Novato "Cash for Grass" Rebate	200.00
31	House Properties	Refund Overpayment on Closed Account	35.58


Seq	Payable To	For	Amount
32	Hudlow, Chris	Novato "Cash for Grass" Rebate	400.00
33	Jakela	Removal of Admin Bldg Boiler Room Piping	2,971.00
34		Cafeteria Plan: Uninsured Medical & Vision Reimbursement	315.50
35	Landeros, Dianne	Exp Reimb: Venegas Claim Deposition on 2/25/16 in San Francisco: Mileage (\$33) Toll (\$6), & Parking (\$35)	74.73
36	Lincoln Life	Deferred Compensation PPE 2/29/16	13,839.26
37		Cafeteria Plan: Uninsured Medical Reimbursement	416.66
38	Mallonee, Lorraine	Novato "Toilet" Rebate	100.00
39	Maltby Electric	Conduit Body (3), & Flex Connector	71.55
40	Martrano Enterprises	Gate Openers (10)	245.27
41	Matz, Kendall	Novato "Washer" Rebate	50.00
42	McLellan Co, WK	Misc Paving	6,018.49
43	McMaster-Carr Supply	4" Hose Couplings (2), PVC Pipe Fitting (\$59), & 4" Hose Coupling Quick Connect (\$41)	132.37
44	MDR	Refund RW Load Security Deposit	100.00
45	Mitchell, Russ & Associates	Recycled Water Retrofit Design (126)	8,190.00
46	Mutual of Omaha	March Group Life Ins Premium	837.89
47	Nationwide Retirement Solutions	Deferred Compensation PPE 2/29/16	1,400.00
48	Novato, City of	Street Excavation Moratorium Fee (1309 Chase, 57 Robinhood & 1039 Second St)	1,500.00
49	Novato Lock	Rekey Locks (25 Giacomini Rd)	205.77
50	Novato Sanitary District	Semi-Annual Billing for Sewer Service (Admin Office/Yard)	1,962.36
51	Pace Supply	Flanges (5) (\$59), Box Lids (11) (\$240), PVC Fitting (\$61), Nipples (2), & Gaskets (39) (\$149)	510.87
52	Pape Machinery	Work Lights for Backhoe (2)	124.95




Seq	Payable To	For	Amount
53	Pesticide Applicators	Pesticide Applicators Seminar Registration in Petaluma 4/5/16 (Cilia)	80.00
54	Peterson Trucks	Governor for Air Compressor ('02 Int'l Dump Truck), Back-up Lights	56.66
55	Petterle, Stephen	February Director's Fee	636.00
56	PG&E	Electric Bill for 25 Giacomini Rd	14.28
57	Preferred Alliance	Pre-Employment Physical (Steele)	42.00
58	Rodoni, Dennis	February Director's Fee (\$636), WAC TAC Meeting on 2/1/16 (\$212)	848.00
59	Schoonover, John	February Director's Fee Less Deferred	586.00
60	School Fuel	Booth Sponsorship for 2016 Tour of Novato & Community Fair	250.00
61		Vision Reimbursement	368.00
62	Staples Advantage	Copy Paper-Letter Size (60 reams), Blue Ribbon, Laser Pointer, Staplers (2) (\$30), Letter Trays (11) (\$113), Pens (24), Classification Folders-Legal Size (40) (\$104), Notebook, Hand-Held Calculator, Daily Business Diary, Mechanical Pencils (3), Lanyards (24), Badge Holders (50) (\$37)	686.68
63	Starn, George	Novato "Cash for Grass" Rebate	400.00
64	The Chemours	Filter Housing for Raw Chemical Filtration (STP)	1,402.57
65	Thomas Scientific	Petri Dish (600) (\$200) & Gloves (10)	287.58
66	United States Plastic	Hose Adapter (2), Swivel (2), Cap (12), & Amber Collection Bottles (12)	48.04
67	U.S. Bank Card	Printer (STP) (\$173), Business Lunches (DeGabriele) (6) (\$333), Parking (\$17), Safety Lapel Pins (100) (\$229), Coffee (\$40), Flow Meter for Sampling Device (Lab) (\$120), 1095C Forms (\$113), Safety Mask (\$24), Standard Specs & Plan for Public Works (\$216)	1,359.01
68	United Parcel Service	Delivery Services: Sent Invoice Packet to Caltrans	8.06
69	USC Foundation	Annual Membership (1/1/16-12/31/16) (Budget \$520)	500.00

Seq	Payable To	For	Amount
71	Vierra, Jean	West Marin "Washer" Rebate	50.00
72	Watersavers Irrigation	Herbicide (3 gal)	80.89
		<b>TOTAL DISBURSEMENTS</b>	<b><u>\$498,853.83</u></b>

The foregoing payroll and accounts payable vouchers totaling \$498,853.83 are hereby approved and authorized for payment.

 3/1/16  
Auditor-Controller Date

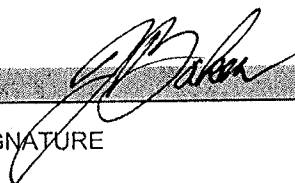
 2/29/2016  
General Manager Date

# NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE JACK BAKER	
425 Corte Norte	DATE <u>2/8/16</u> (TODAY'S DATE)
Novato, CA 94949	AMOUNT: \$212.00

I attended the NORTH BAY WATERSHED ASSOCIATION on 2/5/16  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 SIGNATURE

CHARGE TO: 56001-01-11

## DISPOSITION OF CHECK

☐ MAIL TO PAYEE  
☐ HOLD FOR \_\_\_\_\_  
☒ OTHER:  
ACH PAYMENT

  
 APPROVED TO PAY BY

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REV. 0815

Prepared By	Accounting Review	POST DATE	Vendor No.
			BAKE01



Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		\$212.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	\$212.00
TOTAL		\$212.00

# NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE RICK FRAITES	DATE <u>2/2/16</u> (TODAY'S DATE)
50 Forrest Rd	AMOUNT: \$212.00
Novato, CA 94947	

I attended the SCWA Water Advisory Committee on 2/1/16  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.



SIGNATURE

CHARGE TO: 56001-01-11

**DISPOSITION OF CHECK**

☒ MAIL TO PAYEE

☐ HOLD FOR \_\_\_\_\_

☐ OTHER \_\_\_\_\_

APPROVED TO PAY BY \_\_\_\_\_

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REV. 0815

Prepared By	Accounting Review

POST DATE	Vendor No.
	FRAI01



Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		\$212.00

NMWD Comment

Job Number	GL Account	Amount
	56001-01-11	\$212.00
<b>TOTAL</b>		<b>\$212.00</b>




# NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE RICK FRAITES	DATE <u>2/9/16</u>
50 Forrest Rd	<u>1/1/16</u> (TODAY'S DATE)
Novato, CA 94947	AMOUNT: \$212.00

I attended the Flood Control Zone 1 advisory Board:  
Watershed Program Update on 2/4/16  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
SIGNATURE

CHARGE TO: 56001-01-11

## DISPOSITION OF CHECK


X MAIL TO PAYEE

☐ HOLD FOR \_\_\_\_\_

☐ OTHER \_\_\_\_\_

APPROVED TO PAY BY \_\_\_\_\_

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REV. 0815

Prepared By	Accounting Review	POST DATE	Vendor No.	 NORTH MARIN WATER DISTRICT
			FRAI01	

Invoice Number (CK Req ID)	Invoice (CK Req) Date	Invoice (CK Req) Amount
CKRQ		\$212.00

NMWD Comment

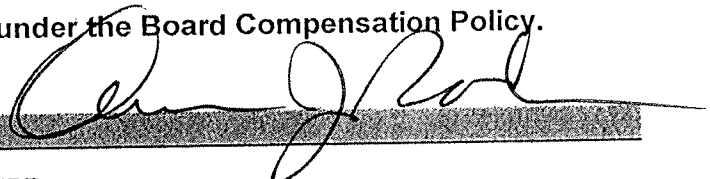
Job Number	GL Account	Amount
	56001-01-11	\$212.00
TOTAL		\$212.00

# NORTH MARIN WATER DISTRICT CHECK REQUEST

PAYEE DENNIS RODONI	DATE <u>2 2 16</u>
P.O. Box 872	(TODAY'S DATE)
Pt. Reyes Station, CA 94956	AMOUNT: \$212.00

I attended the WAC TAC meeting on 2-1-16  
(NAME OF MEETING OR WORKSHOP) (DATE OF MEETING)

and wish to be compensated as provided under the Board Compensation Policy.

  
 \_\_\_\_\_  
 SIGNATURE


CHARGE TO: 56001-01-11

### DISPOSITION OF CHECK

☐ MAIL TO PAYEE  
☐ HOLD FOR \_\_\_\_\_  
☒ OTHER:  
ACH PAYMENT

APPROVED TO PAY BY \_\_\_\_\_

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 REV. 0815

<small>Prepared By</small>	<small>Accounting Review</small>	<small>POST DATE</small>	<small>Vendor No.</small>	 <small>NORTH MARIN WATER DISTRICT</small>
			RODO01	

<small>Invoice Number (CK Req ID)</small>	<small>Invoice (CK Req) Date</small>	<small>Invoice (CK Req) Amount</small>
CKRQ		\$212.00

<small>NMWD Comment</small>

<small>Job Number</small>	<small>GL Account</small>	<small>Amount</small>
	56001-01-11	\$212.00
TOTAL		\$212.00

## ***DISBURSEMENTS - DATED MARCH 10, 2016***

Date Prepared 3/8/16

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 2/29/16	\$124,267.86
EFT*	US Bank	Federal & FICA Taxes PPE 2/29/16	55,373.66
EFT*	State of California	State Taxes & SDI PPE 2/29/16	9,753.54
EFT*	CalPERS	Pension Contribution PPE 2/29/16	33,007.06
1	Athens Administrators	Replenishment for Worker's Comp Checks Written (\$3,601) (2/1-2/29/16) & March Worker's Comp Admin Fee	4,601.39
2	AT&T	Internet Service@ PRTP (2/20-3/19)	75.00
3	AT&T	Leased Lines & RTU Lines	523.59
4	Backflow Distributors	Backflow Repair Parts	485.25
5	Bentley, David L.	Exp Reimb: February Mileage	72.57
6	Brennan, Merle A	Refund Overpayment on Open Account	71.06
7	CA State Lands Commisison	Application for Amendment to Lease Pipeline Crossing at Novato Creek & Rowland Way (RW Central Expansion 2nd Payment - Total \$4,025 to Date)	2,000.00
8	Cel Analytical	Lab Testing	473.00
9	Cla-Val	Pilot Valve Rebuild Kit (3) for Harbor Dr. Regulator Station	265.56
10	Cole-Parmer Instrument	Ammonia Test Reagent	29.42
11	J.S. Cole	Refund of RW Load Security Deposit less Charge for 12 Recycled Water Loads	40.00
12	Corda, Joseph	Exp Reimb: Safety Boots	190.20
13	Cummings Trucking	Rock (\$1,191) (33 yds) & Sand (\$1,674) (32 yds)	2,865.29

\*Prepaid

Disbursements - Dated March 10, 2016

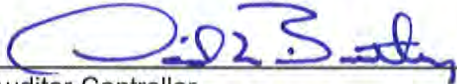
Seq	Payable To	For	Amount
14	Dang, Hieu & Nguyen, Lan	Refund Excess Advance for Const over Actual Job Cost-Dr. Dang Dental Office	72.13
15	DeRecat Property	Refund Excess Advance for Const over Actual Job Cost-33 Commercial Blvd Fire Service	14,099.45
16	Golden Gate Petroleum	Gas (\$1.85/gal) & Diesel (\$1.78/gal)	1,060.77
17	Grainger	Box Beam Level and case (\$81), Batteries (72) (\$33), 5 Gal Buckets (10) (\$92), Level Case Ratchet Tie-Down Straps (2) & Smoke Detector	265.59
18	Groeniger	Meter Stops (11) (\$424) & Couplings (3)	495.90
19	Kane, Shawn	Exp Reimb: Donuts for Fire Extinguisher Training	33.60
20		Cafeteria Plan: Uninsured Medical Reimbursement	50.00
21	Kruger: Veolia Water	Discharge Tips for Hydrocyclone System (STP)	958.58
22	Landeros, Dianne	Expenses: Mileage (\$41) & Bridge Toll (\$5) for Venegas Deposition in Alameda	45.50
23	Larsengines	Replacement 3,000 W Generator	2,367.43
24	MacDougald, Dorothy	Novato "Washer" Rebate Program	50.00
25		Cafeteria Plan: Uninsured Medical Reimbursement	349.81
26	Marin Landscape Materials	Quik Mix (2) Concrete (42)	258.55
27	Drew McIntyre	Exp Reimb: Oct - Jan Mileage & Dinner Meeting (\$40)	300.36
28	McMaster-Carr Supply	Pipe Hangers (12) for Office HVAC	39.26
29	Metrohm USA	Replacement Column for IC Instrument	2,214.22
30	Mischler, Walter & Marilyn	Refund Overpayment on Open Account	211.41




Seq	Payable To	For	Amount
31	North Marin Auto Parts	Oil Filter, Air Filter, Wiper Blades (2) ('08 Ford F350 4x4), Brake Fluid (2) (12 oz bottles), Oil Filter & Wiper Blades (2), Brake Pads, Rotors (2) (\$93), Oil Seals (2) ('99 Dodge Ram 1500), Air Hose Fittings Oil Filter, Air Filter, Water Pump (\$67), Stop Leak ('05 Ford Ranger) Belt, Pulley, & Heater Hose (3 ft) Bulk Shop Rags (\$78), Gas Cap	583.12
32	Novato Disposal Service	February Trash Removal	438.29
33	Office Depot	Folders (450), Black Ink (2 cartridges), Pencils (24) & Card Stock (500 sheets)	86.21
34	Pace Supply	Corp Stops (18), Gaskets (11), PVC Pipe (200'), Nuts & Gasket Kits (18) (\$164) & Tees	1,038.83
35	Pape Machinery	Replacement 18" Backhoe Bucket (\$1,254) & Quick Attach Coupler	2,533.88
36	Peterson Trucks	Oil Filter, Fuel Filter, Air Filter & Wiper Blades (2) ('02 Int'l 5 Yd Dump), Brake Lights (12) & Mirror Brackets (4) (\$283) Backup Lights (4)	472.34
37	Pini Hardware	Garden Hose (50 ft) (2) (STP), Plunger Chain Coil, Cable, Rope Clips (7), Sludge Thickener Intake Repair Pipe Clamps (4) & Angle Brackets (2) for PRTP Well #2, Irrigation Filters for 25 Giacomini Rd, Tubing Braid, Caps for Sample Taps, Toilet Tank Lever for Security Apartment, Faucet (Lab), Faucet Repair Parts (Lab), Pipe Fittings- Screws for Truman P/S Radio Antenna, Drill Bit, Bolts & Nuts to Hang Sign @ STP	252.62
38	Ramudo, Pablo	Reimbursement for Mileage (\$84) & Parking (\$18) to attend ACWA WQ Committee Meeting in Sacramento	102.24
39	RMC Water & Environment	Engineering Services: RW Production Evaluation (Balance Remaining on Contract \$20,520) Eng Services: Central Service Area Connection @ Novato Treatment Plant (Balance Remaining on Contract \$11,044) Eng Services: Title 22 Engineers Report (Balance Remaining on Contract \$9,609)	14,653.00

Seq	Payable To	For	Amount
40	Shirrell Consulting Services	February Dental Expense	2,646.00
41	Smith, Roland	Novato "Toilet" Rebate Program	200.00
42	State Water Resources Control Board	D2 Certification Renewal (7/16-7/19) (Budget \$60) (Kurfist)	130.00
43	T & T Valve & Instrument	Switch Status Monitor (2)	253.52
44	Verizon California	Leased Lines	877.11
45	Verizon Wireless	Cellular Charges: Data (\$113), Airtime (\$130)& Replacement Phone (Arendell) (\$27) (19)	270.34
<b>TOTAL DISBURSEMENTS</b>			<b><u>\$281,504.51</u></b>

The foregoing payroll and accounts payable vouchers totaling \$281,504.51 are hereby approved and authorized for payment.

 3/7/16  
Auditor-Controller Date

 3/7/2016  
General Manager Date

## MEMORANDUM

To: Board of Directors

March 11, 2016

From: Dianne Landeros, Accounting/HR Supervisor



Subj: 25 Giacomini House Rental

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**RECOMMENDED ACTION:** Information Only


**FINANCIAL IMPACT:** \$2,900/month Rental Income

The District-owned house at 25 Giacomini Road in Point Reyes Station was leased to a married couple with a young son on March 3, 2016. The family had been renting a home in Inverness for the past three years. The rent is \$2,900/month. Staff performed credit and reference checks and found the couple acceptable as tenants. The lease converts to a month-to-month rental after one year.

## MEMORANDUM

To: Board of Directors

March 11, 2016

From: Dianne Landeros, Accounting Supervisor 

Subject: GFOA Certificate of Achievement for Excellence in Financial Reporting  
t:\finance\audit\audit15\bod gfoa award fy15.docx

**RECOMMENDED ACTION:** Information Only

**FINANCIAL IMPACT:** None

The Government Finance Officers Association (GFOA) has awarded the District a Certificate of Achievement for Excellence in Financial Reporting for our comprehensive annual financial report (CAFR) for fiscal year ended June 30, 2015. This is the seventh consecutive year the District has received this award. The GFOA states that this Certificate of Achievement is the highest form of recognition in governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management. The brass medallion commemorating the award was added to the plaque displayed in the District lobby.

The following staff members made significant contributions to this CAFR: Chris DeGabriele, David Bentley, Dianne Landeros, Nancy Holton, and Nancy Williamson.



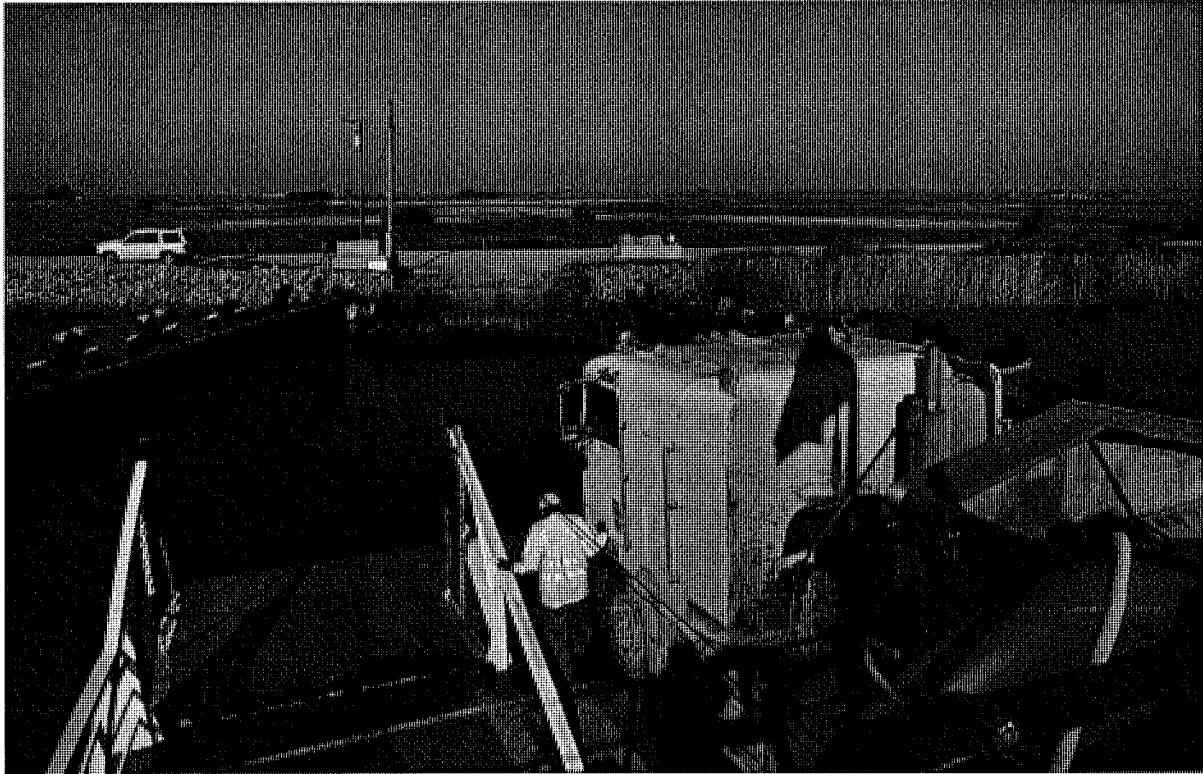
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**SFGATE**

<http://www.sfgate.com/science/article/Southern-California-water-giant-agrees-to-buy-6878573.php>

## Southern California water giant agrees to buy delta islands

By Peter Fimrite Updated 8:39 pm, Tuesday, March 8, 2016



**Buy Photo**

Larry Etherton prepares to unload a transport truck from a ferry on Webb Tract island in November. The island is one of several in the delta that may be purchased by the Metropolitan Water District of Southern California. less

The powerful Metropolitan Water District of Southern California agreed Tuesday to buy four islands and a portion of a fifth in the Sacramento-San Joaquin River Delta, a bid that some conservationists believe is a blatant water grab by California's largest water agency.

The district's 37-member board of directors, representing 26 agencies in Southern California, authorized Metropolitan's general manager to enter into a purchase agreement to buy 20,369 acres of land encompassing Webb Tract, Bacon Island, Bouldin Island, most of Holland Tract and a portion of Chipps

The owner of the land, Delta Wetlands Properties, a subsidiary of insurance giant Zurich, recently gained approval to build reservoirs and flood Bacon Island and Webb Tract, which are below sea level, and convert Bouldin Island and Holland Tract to wildlife habitat. But Kightlinger said the water district is not interested in using the islands, which are protected by levees, as reservoirs.

The board of directors' vote was far from unanimous — only 54 percent of the weighted vote sided with the purchase agreement, raising questions about whether the district is fully committed. Two of the biggest members, the city of Los Angeles and the San Diego County Water Authority, voted against the deal. The city of Santa Monica joined them in opposition, but failed in a motion to delay the vote.

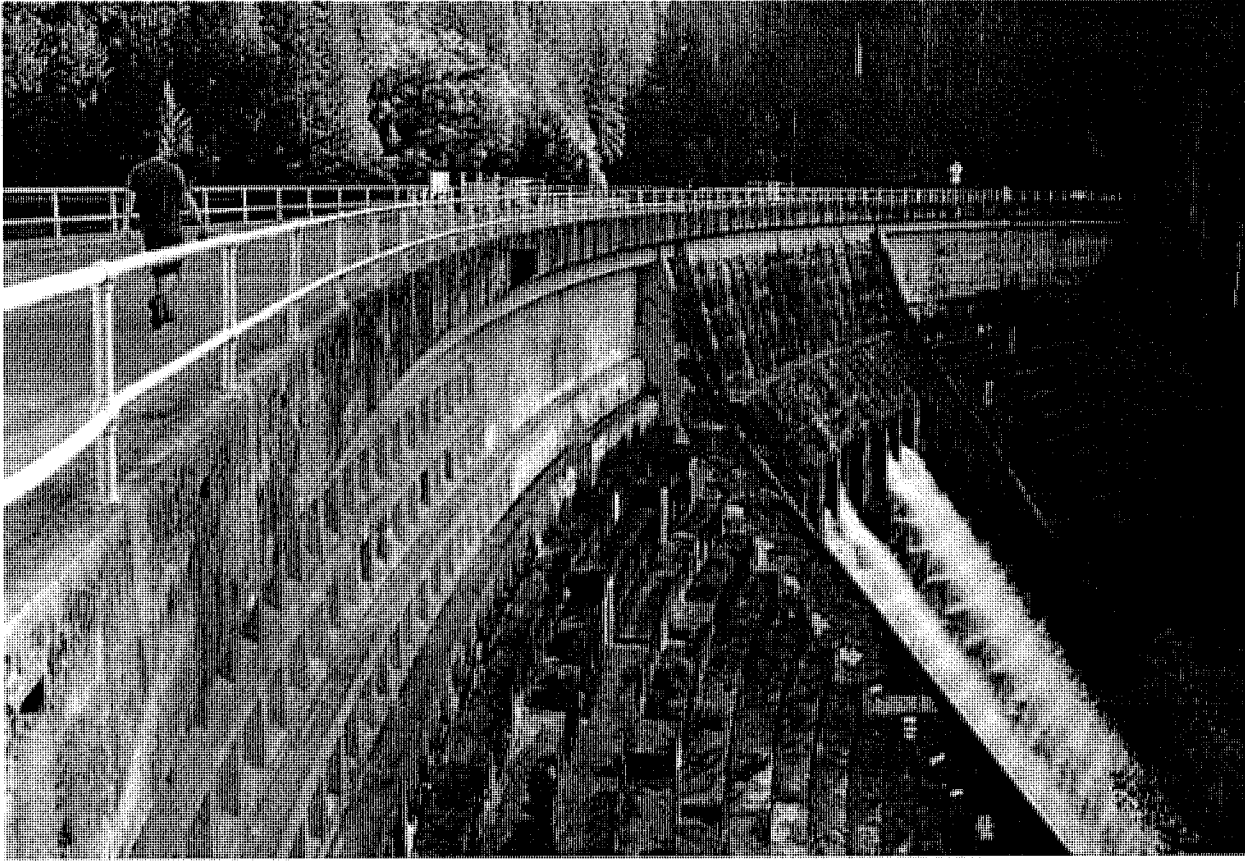
Kightlinger will now enter into a purchase agreement, triggering a 60-day escrow period. The district board scheduled a meeting for April 26 to review the terms one last time before committing to the purchase.

*Peter Fimrite is a San Francisco Chronicle staff writer. Email: pfimrite@sfgate.com Twitter: @pfimrite.*

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**H E A R S T**

# Marin slips below monthly goal for saving water, but on track for overall savings



**Water tumbles down the spillway of the dam at Alpine Lake in Fairfax on Feb. 5. Marin Municipal Water District's reservoirs are at 99 percent of capacity.** Alan Dep — Marin Independent Journal

*By Mark Prado, Marin Independent Journal*

POSTED: 03/04/16, 5:01 PM PST | UPDATED: 2 DAYS AGO 5 COMMENTS

A dry February helped Marin residents slip below state water conservation goals last month, although cumulatively the county remains ahead of targets established last June.

State orders issued in May require the Marin Municipal Water District to cut use by 20 percent and the North Marin Water District by 24 percent to battle drought. The state developed those percentages by looking at per-capita water use. The higher the water use, the more a community has to cut back.

The latest figures show that in February, Marin Municipal customers saved only 12.6 percent compared with September 2013, the baseline year the state is using to measure conservation efforts. That was the last year California was not in drought.

But the district's cumulative decrease is 20.1 percent since June, slightly above the state conservation standard of 20 percent. The agency has 190,000 customers between Sausalito and San Rafael.

“Obviously the savings is not as great as in previous months, but we are still on track,” said Libby Pischel, water district spokeswoman.

“We do want to remind everyone that the statewide reductions have been extended through October 2016, so we have eight more months to go. ... Our customers have clearly demonstrated their commitment to conservation, and we ask them to continue to reduce their water use.”

The state’s water-saving rules were to remain in effect only through last month. But in November Gov. Jerry Brown announced a plan to continue the conservation measures through October 2016 and last month the state Water Resources Control Board approved that request.

February data for the North Marin Water District’s Novato service area shows a 20 percent decrease, short of its mandated 24 percent. But since the state order went into place, the district’s customers have averaged a 28 percent savings, ahead of the goal.

The North Marin Water District serves 60,000 customers in Novato and West Marin.

While conservation lagged slightly last month, Marin Municipal’s reservoirs are at 99 percent of capacity, and after Friday’s rains some reservoirs are spilling their banks. The average storage for this time of year is 89 percent. Last year at this time it was 98 percent.

Statewide, California residents fell just short of a 25 percent conservation goal in January, with savings at 24.8 percent. February numbers have not been reported.

“We can’t know what the next couple months will bring,” said Felicia Marcus, chairwoman of the state Water Resources Control Board. “And a warm and dry February has proved that we can’t count on El Niño to save us.”

Advertisement