Staff Report

In accordance with the District Act, District staff has prepared an annual report on the Protection and Augmentation of Water Supplies, which was filed with the Clerk of the Board on February 24, 2017.

The Report is the 46th annual report on the Santa Clara Valley Water District's (District) activities in the protection and augmentation of the water supplies. This Report is prepared in accordance with the requirements of the District Act, section 26.5. The Report provides information on water requirements and water supply availability, and financial analysis of the District's water utility system. The financial analysis includes future capital improvement and maintenance requirements, operating requirements, financing methods and staff's recommended groundwater production and other water charges by zone for fiscal year 2017–18.

The Rate Setting Process

According to Section 26.3 of the District Act, proceeds from groundwater production charges can be used for the following purposes:

- 1. Pay for construction, operation and maintenance of imported water facilities
- 2. Pay for imported water purchases
- 3. Pay for constructing, maintaining and operating facilities which will conserve or distribute water including facilities for groundwater recharge, surface distribution, and purification and treatment
- 4. Pay for debt incurred for purposes 1, 2 and 3.

This year, as in past years, staff has carefully evaluated the activities that can be paid for by groundwater production charges. The work of the district is divided into projects. Every project has a detailed description including objectives, milestones, and an estimate of resources needed to deliver the project. To ensure compliance with the District Act, each project manager must justify whether or not groundwater production charges can be used to pay for the activities associated with their project. The financial analysis presented in the annual report is based on these project plans.

Resolution 99-21 guides staff in the development of the overall pricing structure based on principles established in 1971. The general approach is to charge the recipients of the various benefits for the benefits received. More specifically, pricing is structured to manage surface water, groundwater supplies and recycled water conjunctively to prevent the over use or under use of the groundwater basin. Consequently, staff is very careful to recommend pricing for groundwater production charges, treated water charges, surface water charges and recycled water charges that work in concert to achieve the effective use of available resources.

This year's rate setting process is being conducted consistent with Board Resolutions 99-21, 12-10 and 12-11, as well as Proposition 218's requirements for property-related fees for water services. As in the past, the Board will continue to hold public hearings and seek input from its advisory committees and the public before rendering a final decision on groundwater production and other water charges for FY 2017–18.

Staff Recommendations

Exhibit 1 shows the proposed groundwater production charges and other charges for FY 2017–18. Since the publishing of the District's Annual Report on the Protection and Augmentation of Water Supplies (PAWS), staff has extended the schedule for the Expedited Purified Water Program. Consequently, the following staff proposed charges are lower than the proposed maximum charges shown in the published annual PAWS report.

Exhibit 1
Summary of Charges
(Dollars Per Acre Foot, \$/AF)

	Dollars Pe	Dollars Per Acre Foot				
	FY 2015–16	FY 2016–17	Proposed FY 2017–18			
ne W-2 (North County)						
Basic User/Groundwater Production Charge						
Municipal & Industrial	894.00	1,072.00	1,175.00			
Agricultural	21.36	23.59	25.09			
Surface Water Charge						
Surface Water Master Charge	22.60	27.46	33.36			
Total Surface Water, Municipal & Industrial*	916.60	1,099.46	1,208.36			
Total Surface Water, Agricultural*	43.96	51.05	58.45			
Treated Water Charges						
Contract Surcharge	100.00	100.00	100.00			
Total Treated Water Contract Charge**	994.00	1,172.00	1,275.00			
Non-Contract Surcharge	200.00	50.00	100.00			
Total Treated Water Non-Contract Charge***	1,094.00	1,122.00	1,275.00			
ne W-5 (South County)						
Basic User/Groundwater Production Charge						
Municipal & Industrial	356.00	393.00	418.00			
Agricultural	21.36	23.59	25.09			
Surface Water Charge						
Surface Water Master Charge	22.60	27.46	33.36			
Total Surface Water, Municipal & Industrial*	378.60	420.46	451.36			
Total Surface Water, Agricultural*	43.96	51.05	58.45			
Recycled Water Charges						
Municipal & Industrial	336.00	373.00	398.00			
Agricultural	45.16	47.38	48.88			

^{*}Note: The total surface water charge is the sum of the basic user charge (which equals the groundwater production charge) plus the water master charge

^{**}Note: The total treated water contract charge is the sum of the basic user charge (which equals the groundwater production charge) plus the contract surcharge

^{***}Note: The total treated water non-contract charge is the sum of the basic user charge (which equals the groundwater production charge) plus the non-contract surcharge

The proposed increases in water charges are necessary to pay for critical investments in water supply infrastructure rehabilitation and upgrades, and the development of future drought-proof supplies, most notably purified water. Additionally, we are projecting lower water usage than pre-drought averages, which results in lower revenue.

Given the financial needs summarized above, staff proposes a 9.6% increase in the North County (Zone W-2) Municipal and Industrial groundwater production charge from \$1,072/AF to \$1,175/AF. Staff recommends maintaining the treated water surcharge at \$100/AF, and increasing the non-contract treated water surcharge to \$100/AF. The proposal equates to a monthly bill increase for the average household of \$3.55 or about 12 cents a day.

In the South County (Zone W-5), staff proposes a 6.4% increase in the M&I groundwater production charge from \$393/AF to \$418/AF. The proposal equates to a monthly bill increase for the average household of \$0.86 or about 3 cents per day.

Staff recommends a 6.4% increase in the agricultural groundwater production charge in both zones from \$23.59/AF to \$25.09/AF. The staff recommendation equates to a \$0.25 increase per month per acre for an agricultural water user who pumps 2 acre-feet per acre per year.

Staff recommends a 21.5% increase to the surface water master charge from \$27.46/AF to \$33.36/AF to bring revenues in line with costs related to managing, operating and billing for surface water diversions. This increase results in a 9.9% increase in the overall North County municipal and industrial surface water charge and 7.3% increase in the overall South County municipal and industrial surface water charge. The overall agricultural surface water charge in either zone would increase by 14.5%. Due to the severity of the drought, the water district suspended nearly all raw surface water deliveries in 2014. Many raw surface water users were forced to find an alternative source of water, primarily the groundwater basin. However, the district intends to reinstate untreated surface water users due to much improved water supply conditions.

For recycled water, staff recommends increasing the M&I charge by 6.7% to \$398/AF. For agricultural recycled water, staff recommends a 3.2% increase to \$48.88/AF. The increase maximizes cost recovery while concurrently providing an economic incentive to use recycled water. This pricing is consistent with the provisions of the "Wholesale-Retailer Agreement for Supply of Recycled Water Between Santa Clara Valley Water District and City of Gilroy."

Staff recommends setting the State Water Project Tax at \$26 million for FY 2017–18. This translates to a property tax bill for the average single family residence of roughly \$44.00 per year. The District incurs an annual indebtedness to the State of California pursuant to its Water Supply Contract dated November 20, 1961. Such indebtedness is proportional to the District's allocation of water from the State Water Project and pays for construction, maintenance and operation of state water project infrastructure and facilities. Staff anticipates that the District's contractual indebtedness to the State under the State Water Supply Contract for FY 2017–18 will be at least \$28 million. Staff's recommendation regarding the State Water Project tax is consistent with the District's past practice and with the approach of other water districts and agencies that maintain State water supply contracts.

Projections

Exhibit 2 shows actual and projected District-managed water use. FY 2015–16 water usage came in at roughly 200,000 AF. For the current year, FY 2016–17, staff estimates that water usage will be approximately 205,000 AF or flat to the FY 2016-17 budget, and roughly a 28%

reduction versus calendar year 2013. For FY 2017–18, total District-managed water use is projected at 217,000 AF, which is a 6% increase relative to the FY 2016-17 estimated actual, and consistent with water usage patterns during the last drought that occurred between 2007 and 2011. The FY 2017-18 water usage estimate represents a 24 percent reduction relative to calendar year 2013. Water use is projected to ramp up to 253,000 AF by FY 2025-26.

Exhibit 2
District-managed Water Use Projection (1,000's AF)

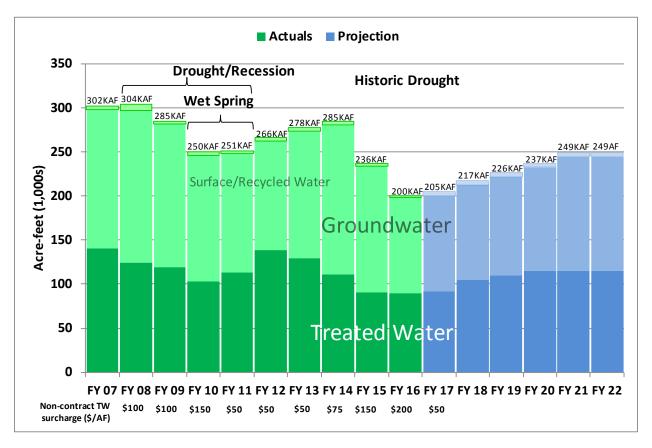


Exhibit 3 shows key financial indicators with staff's recommendation projected to FY 2021-22. The debt service coverage ratio, which is a ratio of revenue less operations expenses divided by annual debt service, is targeted at 2.0 or better which helps to ensure financial stability and continued high credit ratings keeping cost to borrow low.

Exhibit 35 Year Charge and Financial Indicator Projection

Adjusted Proposal	2016–17	2017–18	2018–19	2019–20	2020-21	2021–22
No. County (W-2) M&I GWP charge (\$/AF)	\$1,072	\$1,175	\$1,288	\$1,412	\$1,547	\$1,695
Y-Y Growth %	19.9%	9.6%	9.6%	9.6%	9.6%	9.6%
So. County (W-5) M&I GWP charge (\$/AF)	\$393	\$418	\$442	\$467	\$494	\$522
Y-Y Growth %	10.4%	6.4%	5.7%	5.7%	5.8%	5.7%
Ag GWP charge (\$/AF)	\$23.59	\$25.09	\$26.53	\$28.03	\$29.65	\$31.33
Y-Y Growth %	10.4%	6.4%	5.7%	5.7%	5.8%	5.7%
Operating & Capital Reserve	\$51,025	\$36,709	\$46,179	\$40,801	\$48,018	\$51,618
Supplemental Water Supply Reserve (\$K)	\$14,277	\$14,677	\$15,077	\$15,477	\$15,877	\$16,277
Sr. Lien Debt Svc Cov Ratio (1.25 min)	1.89	2.14	2.52	2.59	2.36	2.26
South County (Deficit)/Reserves (\$K)	\$7,886	\$7,214	\$6,932	\$7,893	\$9,551	\$10,968

A portion of the projected increases in the groundwater production charge are driven by the capital improvement program as shown in Exhibit 4. Over \$2.3 billion in capital investments, primarily to repair and rehabilitate aging infrastructure, are planned for the next 10 years. FY 2017–18 operations and operating project costs are projected to decrease by 8.1% versus the FY 2016–17 adjusted budget, due primarily to reduced imported water costs. On a longer term basis, operating outlays are projected to increase an average of 4.5% per year for the next 10 years due to anticipated inflation, the California Water Fix, and new operations costs related to the expansion of purified water facilities. Debt service is projected to rise from \$37.1 million in FY 2017–18 to \$148.6 million in FY 2026–27 as a result of periodic debt issuances to fund the capital program.

Exhibit 4
Cost Projection by Cost Center (\$M)

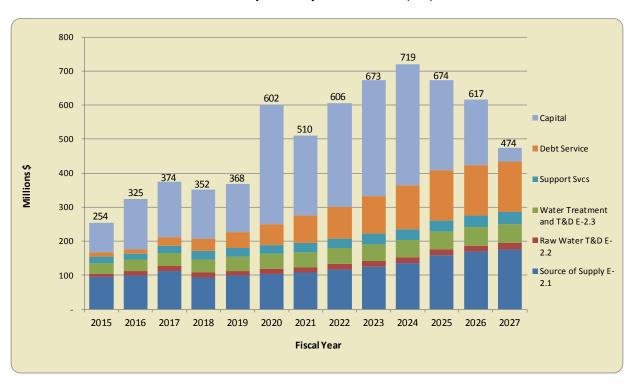


Exhibit 5 shows the groundwater production charge projection for the next 10 years and assumes a continuation of the level of service provided in FY 2016–17 and funding of the preliminary FY 2018-2027 Capital Improvement Program (CIP). Note that there are initiatives and potential uncertainties that could result in the identification of additional capital or operations projects that are not reflected in projection.

Exhibit 510 Year Groundwater Charge Projection

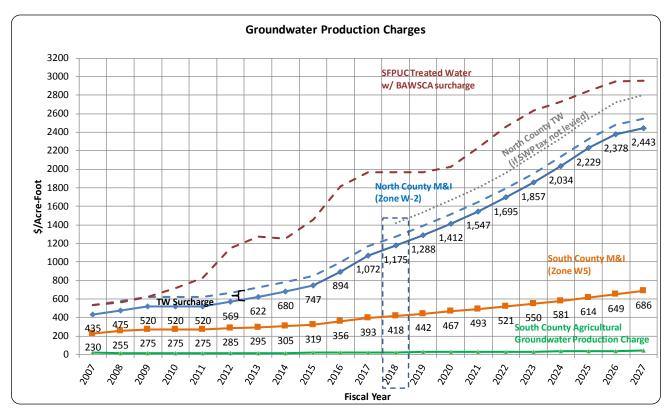


Exhibit 6 shows a comparison of the adjusted proposed groundwater production and treated water charges relative to the anticipated increases for the following similar agencies: Metropolitan Water District, Orange County Water District, San Diego County Water Authority, San Francisco PUC (Hetch Hetchy), and Zone 7.

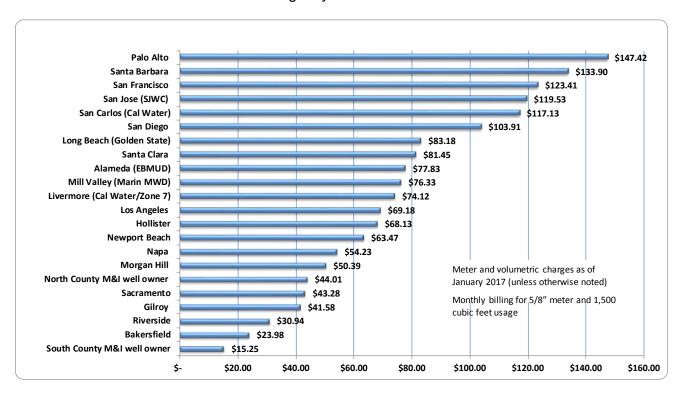
Exhibit 6
Anticipated FY 2017–18 Water Charge Increases for Similar Agencies

	% inc.	% inc.	% inc.		Projection
	'14 to '15	'15 to '16	'16 to '17	FY 17	FY 18 ³
SCVWD North W-2 (Groundwater prdctn per AF)	10%	20%	20%	\$1,072	9.6%
SCVWD North W-2 (Treated Water per AF)	9%	17%	18%	\$1,172	8.8%
SCVWD South W-5 (Groundwater prdctn per AF)	5%	12%	10%	\$393	6.4%
Metropolitan WD (Untreated Water per AF) ¹	-1%	1%	8%	\$762	4.4%
Metropolitan WD (Treated Water per AF) ¹	3%	1%	2%	\$1,075	3.8%
Orange County WD (Groundwater per AF)	7%	10%	25%	\$402	TBD
San Diego County WA (Treated Water per AF) ¹	3%	6%	1%	\$1,531	TBD
San Francisco PUC (Treated Water per AF) ²	17%	25%	8%	\$1,969	0.0%
Zone 7 (Treated Water per AF) ¹	3%	37%	15%	\$1,575	-13.2%

- 1) MWD, SDCWA and Zone 7 rates based on calendar year (i.e. 2018 rate would be effective on 1/1/2018)
- 2) SFPUC rates include BAWSCA bond surcharge estimate of \$183/AF
- 3) SCVWD FY 18 projection includes staff proposed adjustments to proposed maximum

Exhibit 7 shows a comparison of the average monthly bill for several of the District's retail customers (e.g. SJWC, City of Santa Clara, City of Morgan Hill, and City of Gilroy) relative to the District's perennial list of retail agency comparators across the state. SCVWD retailer rates shown include the SCVWD proposed adjusted increase for FY 2017-18. North County and South County well owner rates are also shown, which exclude pumping costs (e.g. electricity) and well maintenance costs.

Exhibit 7Retail Agency Benchmarks



Cost of Service

The cost of service analyses for FY 2017–18 is shown in Exhibit 8 for North County and Exhibit 9 for South County. The exhibits are laid out in a format that follows six industry standard rate making steps.

- 1. Identify utility pricing objectives and constraints
- 2. Identify revenue requirements
- 3. Allocate costs to customer classes
- 4. Reduce costs by revenue offsets or non-rate related funding sources
- Develop unit costs by customer class or net revenue requirements by customer class
- 6. Develop unit rates by customer class

Step 2 includes identifying and segregating Water Utility Fund costs from Watershed and Administrative Funds and allocating Water Utility costs between zones W-2 (North) and W-5 (South) according to benefit provided. Step 3 involves allocating costs by customer class either directly or based on water usage. Steps 4 and 5 result in unit costs by customer class after applying non-rate related offsets.

Step 6 includes two adjustments. The first adjustment is the application of fungible revenue, in this case 1% ad valorem property taxes, to offset the costs of agricultural water in accordance with Board Resolution 99-21. For FY 2017-18, staff is proposing a \$1.6M transfer of 1% ad valorem property taxes from the General Fund and \$1.6M from the Watershed Stream Stewardship Fund as sources for this adjustment also known as the "Open Space Credit."

The second adjustment involves reallocating a portion of the cost of treated water (or recycled water in the case of South County) to groundwater and surface water users. Treated and recycled water offsets the need to pump groundwater and therefore increases the volume of stored groundwater and improves reliability. The reallocation of a portion of the treated water cost for example represents the value of treated water to groundwater and surface water users and facilitates a pricing structure that prevents the over use of the groundwater basin. Preventing over use not only preserves groundwater for use in times of drought, but also prevents land subsidence or sinking of the land, which can cause serious infrastructure issues.

Another aspect of the second adjustment is related to setting the basic user charge for surface water equal to the groundwater production charge. Surface water use is effectively in-lieu groundwater use permitted by the District to help preserve the groundwater basin. As such, the costs related to preserving the groundwater basin provide value to surface water users because it makes available District surface water, which otherwise would only be used for groundwater recharge. Similarly, the costs related to providing surface water benefit groundwater users because surface water usage helps preserve the groundwater basin. The second adjustment reallocates costs between surface water and groundwater customers in order to set the basic user charge for surface water equal to the groundwater production charge in recognition of this conjunctive use relationship, and in accordance with board policy. A 2015 study was conducted by Raftelis Financial Consultants, Inc (RFC) that confirms the reasonableness of such an adjustment. The report titled "Report Documenting the Reasonableness of the Conjunctive Use Benefit of Surface Water and Recycled Water to Groundwater Customers" documents the support and justification for the water district's cost of service methodology and can be found on the District's website.

Exhibit 8
Cost of Service North County Zone W-2 (\$K)

Comparing Outlays		FY '18 Projection (\$K)	Zone W-2								
1 Operating Outlays 2 Operations/Operating Projects 39,739 438 84,288 715 17 125,196 3 SWP Imported Water Costs 6,771 76 21,042 390 10 28,288 4 Debt Service 5,774 76 21,042 390 10 28,288 4 Debt Service 5,703 5,939 5,7038 5,939 10 28,288 3,7038 3,				G۱	N				V	Total W-2	
1 Operating Outlays			N	1&1	Т	AG	M&I		M&I	Aq	
SWP Imported Water Costs	1	Operating Outlays									
SWP Imported Water Costs	2	Operations/Operating Projects	,	39,739		438	84,2	88	715	17	125,196
Debt Service		SWP Imported Water Costs		6,771	******	76	21,0	42	390	10	28,288
Total Operating Quitages		Debt Service	***************************************	8,538		96	28,2	87	115	3	37,038
Capital & Transfers Identify revenue	5	Total Operating Outlays							1,220	30	190,522
Capital & Transfers Capital Stransfers Capital Cutlays excl. carryforward 19,374 217 109,635 467 11 129,705	6										
8 Operating Transfers Out 3,286 37 5,939 85 2 9,345 9 Capital Outlays excl. carryforward 19,374 217 109,635 467 11 129,705 10 Total Capital & Transfers 22,861 254 115,574 552 13 139,0576 11 Total Annual Program Costs 77,708 863 249,191 1,772 43, 329,576 12 Step 3 - Allocate costs to customer classes 12 Revenue Requirement Offsets 14 Capital Cost Recovery (1,730) (19) (3,127) (45) (1) (4,923 15 Debt Proceeds (11,504) (129) (65,100) (277) (7) (77,017 16 Inter-governmental Services (395) (4) (713) (10) (0) (1,123 15 Debt Proceeds (15,565) (62) (18,490) (315) (8) (24,444 18 South County Deficit/Reserve (87) (1) (157) (2) (0) (245 18 20 Inter-governmental Services (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (1,123 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (157) (2) (0) (245 12 Debt Proceeds (87) (1) (10 Debt Proceeds (1) (1) (10 Debt Proceeds (1) (1) (10 Debt P	7	Capital & Transfers		1							
Total Capital & Transfers	8	Operating Transfers Out		3,286	~~~~~	37	5,9	39	85	2	9,349
11 Total Annual Program Costs	9	Capital Outlays excl. carryforward		19,374		217	109,6	35	467	11	129,705
Step 3 - Allocate costs to customer classes	10	Total Capital & Transfers		22,661		254	115,5	74	552	13	139,054
13 Revenue Requirement Offsets 14 Capital Cost Recovery (1,730) (19) (3,127) (45) (1) (4,923) (15) Debt Proceeds (11,504) (129) (65,100) (277) (7) (77,017) (16) Inter-governmental Services (395) (4) (713) (10) (0) (11,504) (129) (65,100) (277) (7) (77,017) (77,017) (17,017) (18) (19) (1	11	Total Annual Program Costs		77,708		863	249,1	91	1,772	43	329,576
Capital Cost Recovery	12			Ste	р3	- Alloca	ite cost§ 1	to c	ustomer clas	ses	
Debt Proceeds	13	Revenue Requirement Offsets									
Inter-governmental Services	14	Capital Cost Recovery		(1,730))	(19)	(3,1	27)	(45)	(1)	(4,923)
17 SWP Property Tax (5,565) (62) (18,490) (315) (8) (24,440) 18 South County Deficit/Reserve (87) (1) (157) (2) (0) (248) 19 Interest Earnings Step 4- (254) (3) (460) (7) (0) (723) 20 Inter-zone Interest Reduce costs by 20 0 37 1 0 58 21 Capital Contributions Fevenue offsets (945) (11) (1,708) (24) (11) (2,688) 22 Other (966) (11) (911) (15) (0) (1,903) 23 Reserve Requirements (4,539) (21) (24,765) (109) (1) (29,435) 24 Adjusted Revenue Requirement (FY 18) 51,744 602 133,797 968 25 137,134 25 Adjusted Revenue Requirement (FY 15 adj) 12,633 56 4,657 158 84 17,587 26 Total Adjusted Revenue Requirement 64,376 657 138,453 1,125 109 204,721 27 Volume (KAF) 58.1 0.7 105.0 1.5 0.0 165. 28 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class	15	Debt Proceeds	(11,504)		(129)	(65,1	00)	(277)	(7)	(77,017)
South County Deficit/Reserve	16	Inter-governmental Services		(395))	(4)	(7	13)	(10)	(0)	(1,123)
19	17	SWP Property Tax		(5,565))	(62)	(18,4	90)	(315)	(8)	(24,440)
10 Inter-zone Interest Reduce costs by 20 0 37 1 0 58	18			(87))	(1)	(1	57)	(2)	(0)	(248)
Capital Contributions Capital Capital Contributions Capital Capi	19	interest = animigs		(254)		(3)	(4	60)	(7)	(0)	(723)
22 Other (966) (11) (1,708) (24) (1) (2,658)	20	into i zono intorcot		20		0		37	1	0	58
23 Reserve Requirements (4,539) (21) (24,765) (109) (1) (29,435) 24 Adjusted Revenue Requirement (FY18) 51,744 602 133,797 968 25 187,134 25 Adjusted Revenue Requirement (FY15 adj) 12,633 56 4,657 158 84 17,587 26 Total Adjusted Revenue Requirement 64,376 657 138,453 1,125 109 204,721 27 Volume (KAF) 58.1 0.7 105.0 1.5 0.0 165. 28 29 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class 31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) - - (107) (748 33 Transfer GF 1% Ad Valorem Prop Tax - - - - - - - - - - - - - - - - - - - <	21	Capital Contributions revenue offsets		(945)		(11)	(1,7	(80	(24)	(1)	(2,688)
24 Adjusted Revenue Requirement (FY 18) 51,744 602 133,797 968 25 187,134 25 Adjusted Revenue Requirement (FY 15 adj) 12,633 56 4,657 158 84 17,587 26 Total Adjusted Revenue Requirement 64,376 657 138,453 1,125 109 204,721 27 Volume (KAF) 58.1 0.7 105.0 1.5 0.0 165. 28 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class 31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) - - (107) (748 32 Allocate WU 1% Ad Valorem Prop Tax - <t< td=""><td>22</td><td>Other</td><td></td><td colspan="2">(966)</td><td>(11)</td><td>(9</td><td>11)</td><td>(15)</td><td>(0)</td><td>(1,903)</td></t<>	22	Other		(966)		(11)	(9	11)	(15)	(0)	(1,903)
Adjusted Revenue Requirement (FY 15 adj) 12,633 56 4,657 158 84 17,587	23	Reserve Requirements		(4,539))	(21)	(24,7	65)	(109)	(1)	(29,435)
26 Total Adjusted Revenue Requirement 64,376 657 138,453 1,125 109 204,721	24	24 Adjusted Revenue Requirement (FY 18)		51,744		602	133,7	97	968	25	187,134
27 Volume (KAF) 58.1 0.7 105.0 1.5 0.0 165. 28 29 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class 31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) (107) 33 Transfer GF 1% Ad valorem Prop Tax 4 Transfer WS 1% Ad Valorem Prop Tax 5 Revenue Requirement per AF \$ 1,108.0 \$ 25.1 \$ 1,319 \$ 750 \$ 58.4 36 Step 6 - Rate Design 37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - (9.578) 687 - (25	Adjusted Revenue Requirement (FY 15 adj)		12,633		56	4,6	57	158	84	17,587
27 Volume (KAF) 58.1 0.7 105.0 1.5 0.0 165. 28 29 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class 31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) (107) 33 Transfer GF 1% Ad valorem Prop Tax 4 Transfer WS 1% Ad Valorem Prop Tax 5 Revenue Requirement per AF \$ 1,108.0 \$ 25.1 \$ 1,319 \$ 750 \$ 58.4 36 Step 6 - Rate Design 37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - (9.578) 687 - (
28 Revenue Requirement per AF \$ 1,108 \$ 1,012 \$ 1,319 \$ 750 \$ 2,978 30 Step 5 - Develop unit costs by customer class 31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) (107) (748) 33 Transfer GF 1% Ad valorem Prop Tax	26	Total Adjusted Revenue Requirement		64,376		657	138,4	53	1,125	109	204,721
Step 5 - Develop unit costs by customer class Step 5 - Develop unit costs by customer class	27	Volume (KAF)		58.1		0.7	10	5.0	1.5	0.0	165.3
Step 5 - Develop unit costs by customer class	28										
31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) - (107) (748) 33 Transfer GF 1% Ad valorem Prop Tax	29	Revenue Requirement per AF	\$	1,108	\$	1,012	\$ 1,3	19	\$ 750	\$ 2,978	
31 Adjustments for Agricultural Preservation 32 Allocate WU 1% Ad Valorem Prop Tax - (641) (107) (748) 33 Transfer GF 1% Ad valorem Prop Tax	30			S	ter	5 - Dev	elop unit	co	sts by custon	ner class	
33 Transfer GF 1% Ad valorem Prop Tax -	31	Adjustments for Agricultural Preservation									
34 Transfer WS 1% Ad Valorem Prop Tax -	32	Allocate WU 1% Ad Valorem Prop Tax		-		(641)	-		-	(107)	(748)
35 Revenue Requirement per AF \$ 1,108.0 \$ 25.1 \$ 1,319 \$ 750 \$ 58.4 36 Step 6 - Rate Design 37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - 39 Charge per AF \$ 1,175 \$ 25.1 \$ 1,275 \$ 1,208 \$ 58.4	33	Transfer GF 1% Ad valorem Prop Tax	-			-	-		-	-	-
36 Step 6 - Rate Design 37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - (0,578)	34	Transfer WS 1% Ad Valorem Prop Tax		-		-	-		-	-	-
36 Step 6 - Rate Design 37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - (0,578) 39 Charge per AF \$ 1,175 \$ 25.1 \$ 1,275 \$ 1,208 \$ 58.4	35	Revenue Requirement per AF	\$ 1	,108.0	\$	25.1	\$ 1,3	19	\$ 750	\$ 58.4	
37 Adjustments to Facilitate Conjunctive Use 38 Reallocate TW/SW/RW costs 39 Charge per AF \$1,175 \$25.1 \$1,275 \$1,208 \$58.4	36	Step 6 - Rate Design									
38 Reallocate TW/SW/RW costs 3,891 - (4,578) 687 - (0 39 Charge per AF \$ 1,175 \$ 25.1 \$ 1,275 \$ 1,208 \$ 58.4											
39 Charge per AF \$ 1,175 \$ 25.1 \$ 1,275 \$ 1,208 \$ 58.4				3,891			(4,5	7 8)	687		(0)
	39	Charge per AF	\$		\$	25.1				\$ 58.4	
40 Total Revenue (\$K) \$68,268 \$16 \$133,875 \$1,813 \$2 \$203,974	40		\$6			\$16				\$2	\$203,974

Exhibit 9
Cost of Service South County Zone W-5 (\$K)

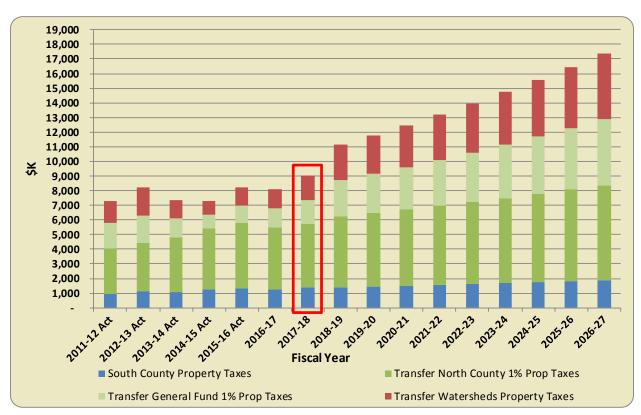
	FY '18 Projection (\$K)	Zone W-5						
		G	W	S	W	R	W	Total W-5
		M&I	AG	M&I	AG	M&I	AG	
1	Operating Outlays							
2	Operations/Operating Projects	8,450	8,553	212	541	83	71	17,910
3	SWP Imported Water Costs	-	-	-	-	-	-	-
4	Debt Service	-	-	-	-	-	-	-
5	Total Operating Outlays Step 2-	8,450	8,553	212	541	83	71	17,910
6								
7	Capital & Transfers Identify revenue							
8	Operating Transfers Out	-	-	-	-	-	-	-
9	Capital Outlays excl. carryforward	-	-	-	-	-	-	-
10	Total Capital & Transfers	-	-	-	-	-	-	
11	Total Annual Program Costs	8,450	8,553	212	541	83	71	17,910
12			Step 3 - Al	ocate costs t	olcustomerc	lasses		
13	Revenue Requirement Offsets							
14	Capital Cost Recovery	1,803	1,878	38	98	595	510	4,923
15	Debt Proceeds	-	-	-	-	-	-	-
16	Inter-governmental Services	(67)	(69)	(1)	(4)	-	-	(141)
17	SWP Property Tax	(719)	(749)			(21)	(18)	(1,560)
18	South County Deficit/Reserve	(37)	269	(20)		15	6	248
19	Interest Earnings Step 4-	-	-	-	-	-	-	-
20	Inter-zone Interest Reduce costs by	(27)	(28)	(1)	(1)	(1)	(1)	(58)
21	Capital Contributions revenue offsets	-	-	-	-	-	-	-
22	Other	(65)	(68)	(1)	(2)	-	-	(136)
23	Reserve Requirements	-	_	-	-	-	-	-
24	Adjusted Revenue Requirement (FY 18)	9,339	9,786	212	607	672	569	21,185
25	Adjusted Revenue Requirement (FY 15 adj)	296	(764)	25	(177)	(8)	(291)	(918)
			,		,	,	, ,	· í
26	Total Adjusted Revenue Requirement	9,635	9,023	237	430	664	278	20,267
27	Volume (KAF)	24.0		0.5	1.3	0.7	0.6	52.1
28	, ,							
29	Revenue Requirement per AF	\$.401	\$ 361	\$ 474	\$ 331	\$ 949	\$ 464	
30	Nevertae Requirement per 74	+	1	-	by customer	*	Ψ	
31	Adjustments for Agricultural Preservation	31	ep 3 - Deven	op unit costs	by customer	Ciass		
32	Allocate WU 1% Ad Valorem Prop Tax		(5,761)	-	-	-	-	(5,761)
33	Transfer GF 1% Ad valorem Prop Tax	-	(1,626)		-	-	-	(1,626)
34	Transfer WS 1% Ad Valorem Prop Tax	-	(1,023)	•	(354)	-	(249)	(1,626)
35	Revenue Requirement per AF	\$ 401	\$ 24.5		\$ 58.4	\$ 949	\$ 48.9	,,,,,,,
36	Step 6 - Rate Design	Ψ -101	Ψ 2-1.0	Ψ 7/7	ψ 00.4	→ 0-10	ψ 1 0.0	
37	Adjustments to Facilitate Conjunctive Use							
38	Reallocate TW/SW/RW costs	397	-	(11)	-	(386)	_	-
39	Charge per AF	\$ 418		\$ 451	\$ 58		\$ 48.9	
40	Total Revenue (\$K)	\$10,032	\$ 24.5	\$226	\$ 56	\$ 390	\$ 46.9 \$29	\$11,254
40	Total Revenue (\$K)	\$10,032	\$013	⊅∠∠ 0	۵/۵	⊅ ∠/9	\$29	\$11,254

Open Space Credit

The District Act limits agricultural groundwater production charges to a maximum of 25 percent of the M&I groundwater production charges. Current board policy adds an "open space" credit to agricultural revenues. The purpose of the credit is to preserve the open space benefits provided by agricultural lands by keeping agricultural groundwater production charges low. To the extent that Proposition 218 applies to the groundwater production charge, it requires that costs to end users be proportional such that one class of users is not subsidizing another.

The recommended agricultural groundwater production charge for FY 2017–18 is \$25.09 per acre foot, which is 6 percent of the proposed M&I groundwater production charge in South County. To comply with the current agricultural groundwater production charge setting policy, staff recommends the open space credit received by South County be \$9.0 million in FY 2017-18 (funded by 1 percent ad valorem property taxes). This includes an adjustment that reconciles FY 2014–15 actuals against what was projected. The \$9.0 million is comprised of a \$4.4 million transfer from North County Water Utility 1% ad valorem property taxes, a \$1.4 million contribution from South County Water Utility 1% ad valorem property taxes, a \$1.6 million transfer of 1% ad valorem property taxes from the General Fund and \$1.6 million from the Watershed Stream Stewardship Fund. As shown in Exhibit 10, the Open Space Credit is projected to grow to over \$17.4 million by FY 2026-27.





Hearings and Meetings Schedule

Exhibit 11 presents the schedule for the annual groundwater production charge setting process.

Exhibit 11
Hearings and Meetings Schedule – 2017

Date	Hearing/Meeting				
December 13	Board Workshop: Planning for FY 18 Groundwater Production Charges				
January 10	Board Meeting on Preliminary Groundwater Production Charge Analysis				
February 24	Mail notice of public hearing and file PAWS report				
March 15	March 15 Water Retailers Meeting				
April 3	April 3 Agricultural Water Advisory Committee Meeting				
April 4	Landscape Committee Meeting				
April 11	Open Public Hearing				
April 13	Continue Public Hearing in Morgan Hill (Informational Open House)				
April 17	Environmental & Water Resources Committee				
April 19	Water Commission Meeting				
April 25	Conclude Public Hearing				
May 9	Adopt Budget & Groundwater Production and Other Water Charges				