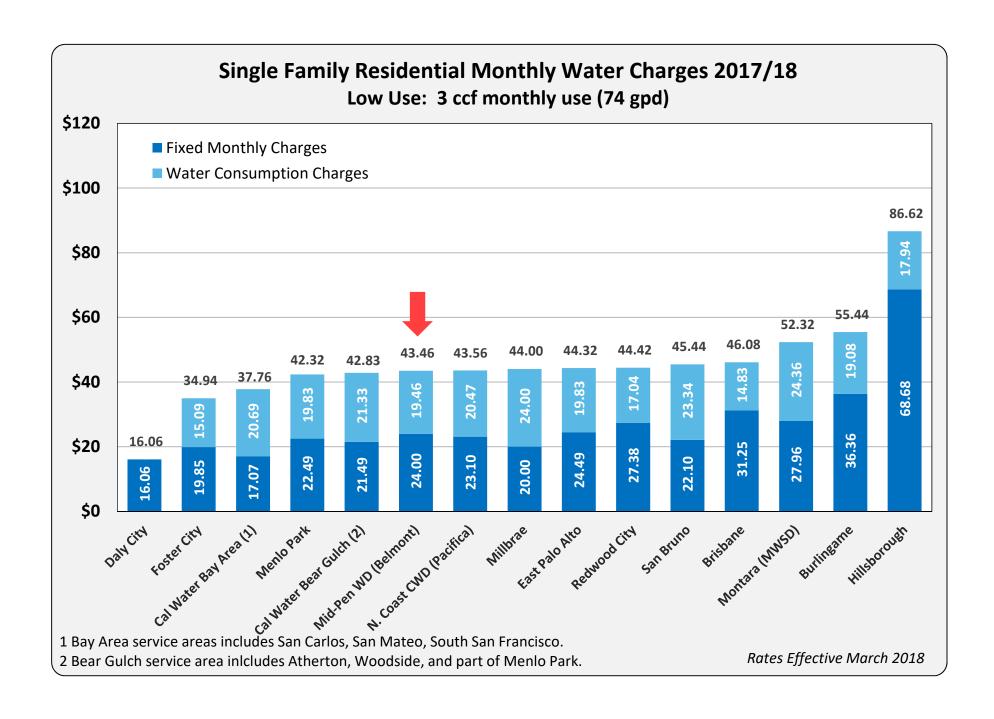


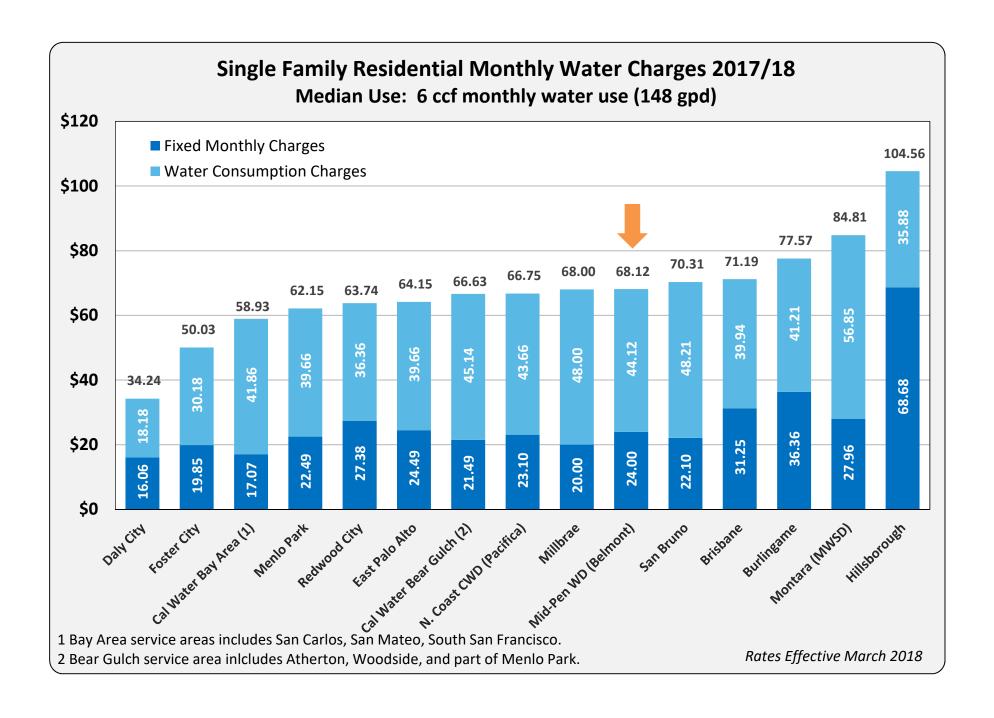


Water Rate Update

May 18, 2018







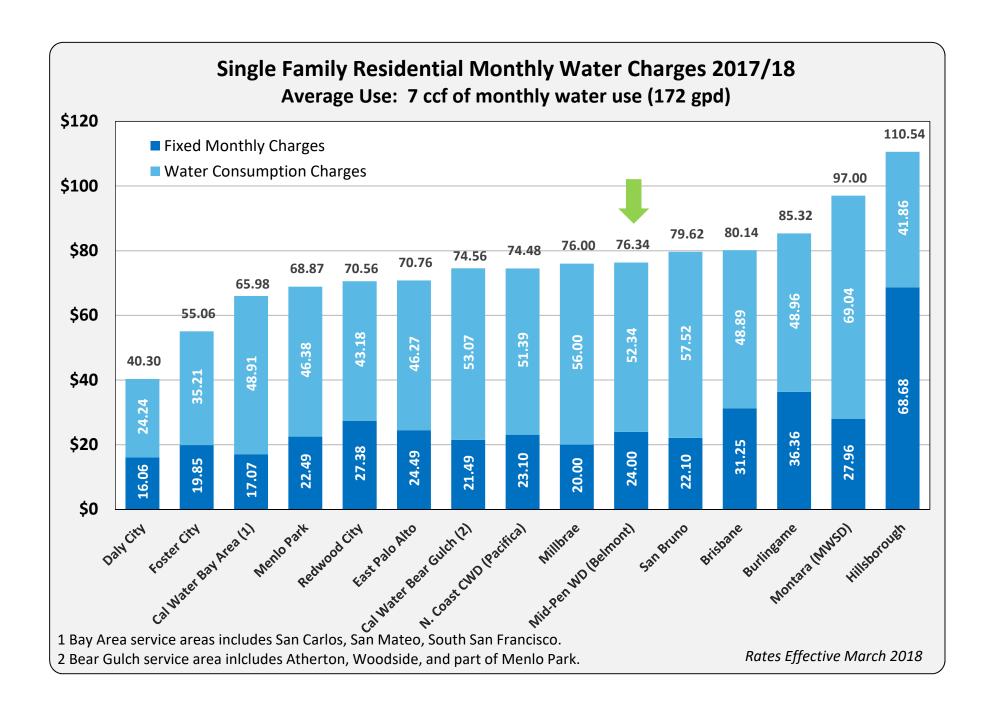


Table 1 Mid-Peninsula Water District Water Sales by Fiscal Year

Includes estimates for remainder of fiscal year 2017/18

	Water Consumption (hcf)							
_	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18		
July	155,974	156,081	134,669	102,202	111,110	117,761		
August	153,190	155,788	128,924	104,096	113,341	124,029		
September	145,980	145,551	118,284	101,546	112,591	127,050		
October	122,618	122,117	109,652	95,095	101,247	117,970		
November	90,723	106,535	86,670	81,298	76,838	100,278		
December	80,604	94,062	72,835	67,438	66,486	76,510		
January	84,202	102,910	82,360	70,890	67,261	85,964		
February	86,478	73,221	79,782	60,940	65,165	65,000		
March	106,663	89,152	102,964	65,700	63,193	63,000		
April	120,265	96,019	91,491	73,821	69,702	70,000		
May	155,736	126,934	97,806	85,446	89,353	89,000		
June	150,614	139,729	103,863	108,136	108,136	108,000		
Total	1,453,047	1,408,099	1,209,300	1,016,608	1,044,423	1,144,562		
% Change		-3.1%	-14.1%	-15.9%	2.7%	9.6%		

2017/18 year-to-date water consumption through January 2018 is 15.5% higher than the same period in the prior fiscal year; assuming water use parallels prior year use for the remaining months of the fiscal year, water use will end up about 9.6% higher than 2016/17.

Table 2 Mid-Peninsula Water District Water Rates

		July 1 2015	July 20:		July 201		July 1 2018	July 1 2019
		Adopted & Charged	Adopted	Charged	Adopted	Charged	Adopted	Adopted
Fixed Mon	nthly Charges				^	No Increase		
Billed base	ed on meter size							
Meter	Meter Ratio							
5/8"	1.00	\$22.00	\$24.00	\$24.00	\$26.00	\$24.00	\$28.00	\$30.00
1"	1.50	33.00	36.00	36.00	39.00	36.00	42.00	45.00
1 1/2"	2.50	55.00	60.00	60.00	65.00	60.00	70.00	75.00
2"	4.00	88.00	96.00	96.00	104.00	96.00	112.00	120.00
3"	6.00	132.00	144.00	144.00	156.00	144.00	168.00	180.00
4" 6"	10.00	220.00	240.00	240.00	260.00	240.00	280.00	300.00
б	25.00	550.00	600.00	600.00	650.00	600.00	700.00	750.00
Water Cor	nsumption Charges				No Increase			
Billed base	ed on monthly metered	d water use (\$/	hcf)*					
Residentia	ll Use per Tier							
Tier 1		0 - 2 hcf	0 - 2 hcf		0 - 2 hcf		0 - 2 hcf	0 - 2 hcf
Tier 2		3 - 9 hcf	3 - 8 hcf		3 - 8 hcf		3 - 8 hcf	3 - 8 hcf
Tier 3		10 - 22 hcf	9 - 20 hcf		9 - 20 hcf		9 - 20 hcf	9 - 20 hcf
Tier 4		>22 hcf	>20 hcf		>20 hcf		>20 hcf	>20 hcf
				With \$0.32				
Residentia	Il Rate Tiers		<u>P</u>	ass-Through				
Tier 1		\$5.00	\$5.30	\$5.62	\$5.60	\$5.62	\$5.90	\$6.25
Tier 2		7.50	7.90	8.22	8.30	8.22	8.65	9.00
Tier 3		9.00	9.50	9.82	10.00	9.82	10.50	11.00
Tier 4		10.50	11.10	11.42	11.70	11.42	12.35	13.00
Commercial Rate Tiers								
	0 - 5 hcf	\$7.00	\$7.25	\$7.57	\$7.50	\$7.57	\$7.75	\$8.00
	Over 5 hcf	8.00	8.35	8.67	8.70	8.67	9.10	9.50
	 ne hundred cubic feet							

Table 3
Mid-Peninsula Water District
Estimated Water Rate Revenues 2017/18

	Water Use (hcf)	Usage Charges	Fixed Charges	Total Charges
July	117,761	\$991,425	\$221,480	\$1,212,905
August	124,029	1,058,492	221,539	1,280,031
September	127,050	1,086,960	221,731	1,308,691
October	117,970	969,367	220,229	1,189,596
November	100,278	842,728	221,252	1,063,980
December	76,510	597,628	221,492	819,120
January	85,964	460,723	221,521	682,244
February	65,000	517,000	221,500	738,500
March	63,000	207,000	221,500	428,500
April	70,000	555,000	221,500	776,500
May	89,000	718,000	221,500	939,500
June	108,000	992,000	221,500	1,213,500
Total	1,144,562	8,996,323	2,656,744	11,653,067
% of Total		77.2%	22.8%	100.0%

Table 4
Mid-Peninsula Water District
Projected vs. Actual SFPUC Wholesale Water Rates

	July 1 2015	July 1 2016	July 1 2017	July 1 2018
Prior SFPUC Projections (2015 Rate Study)	3.75	3.78	3.79	4.31
Actual or Updated Wholesale Rates	3.75	4.10	4.10	4.10
Difference	-	0.32	0.31	(0.21)

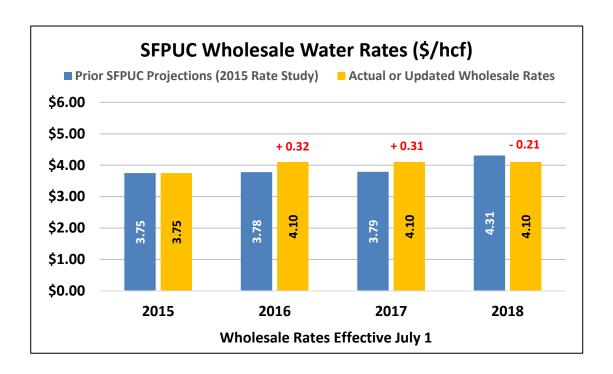


Table 5
Mid-Peninsula Water District
Fund Reserves

	Fund Reserves as of June 30					
	2013	2014	2015	2016	2017	
Cash & Equivalents	\$3,621,126	\$4,465,380	\$3,582,734	\$4,265,885	\$5,203,740	
Plus						
Accounts Receivable	916,448	849,549	679,566	973,931	1,212,306	
Prepaid Expenses & Assets	<u>115,278</u>	<u>92,625</u>	<u>135,503</u>	255,814	231,282	
Subtotal	1,031,726	942,174	815,069	1,229,745	1,443,588	
Less						
Accounts Payable	162,195	422,373	185,507	206,936	236,936	
Accrued Expenses/Unearned Revs	<u>131,706</u>	<u>54,431</u>	<u>78,189</u>	711,290	1,512,722	
Subtotal	293,901	476,804	263,696	918,226	1,749,658	
Adjusted Total	4,358,951	4,930,750	4,134,107	4,577,404	4,897,670	
Source: Audited Financial Statemen	ts					

Table 6 - MPWD Cash Flow Projections								
	2017/18	2018/19	2019/20	2020/21	2021/22			
		Projected	Projected	Projected	Projected			
Overall Rate Increase	0.0%	4.1%	4.1%	4.0%	6.0%			
Consumption Charge Adjustments	0.0%	2.8%		3.0%	6.0%			
Fixed Rate Adjustments (1-year lag)	0.0%	8.3%		7.1%	6.0%			
Growth in Service Connections	32	. 5	. 5	1	. 5			
Water System Capacity Charge	\$9,750	\$9,950	\$10,150	\$10,350	\$10,560			
Change in Water Sales	9.6%	0.0%	0.0%	0.0%	0.0%			
Total Water Sales (hcf)	1,144,600	1,144,600	1,144,600	1,144,600	1,144,600			
SFPUC Water Purchases (hcf) +7%	1,224,700	1,224,700	1,224,700	1,224,700	1,224,700			
Projected SFPUC Rate per hcf	\$4.10	\$4.10	\$4.10	\$4.30	\$4.50			
Prior Est of SFPUC Rate per hcf	\$3. <i>79</i>	\$4.31	\$4.72	\$4.74	\$4.90			
Interest Earnings Rate	1.5%	1.5%	1.5%	1.5%	1.5%			
Cost Escalation		4.0%	4.0%	4.0%	4.0%			
Beginning Fund Reserves	\$4,898,000	\$3,729,000	\$2,323,000	\$2,590,000	\$2,675,000			
REVENUES								
Monthly Service Charges	2,657,000	2,880,000	3,104,000	3,326,000	3,528,000			
Water Sales	8,996,000	9,248,000	9,525,000	9,811,000	10,400,000			
Subtotal Rate Revenues	11,653,000	12,128,000	12,629,000	13,137,000	13,928,000			
Annual Increase %	3.5%	4.1%	4.1%	4.0%	6.0%			
Interest Revenue	50,000	56,000	35,000	39,000	40,000			
Lease of Physical Property	150,000	155,000	160,000	165,000	170,000			
Property Taxes	260,000	268,000	276,000	284,000	293,000			
Capacity/Demand Offset Charges	310,000	250,000	250,000	10,000	53,000			
Other/Miscellaneous Revenues	295,000	65,000	67,000	69,000	71,000			
Total Revenues	12,718,000	12,922,000	13,417,000	13,704,000	14,555,000			
EXPENSES								
Operating & Maintenance								
Personnel Costs	2,978,000	3,131,000	3,256,000	3,386,000	3,521,000			
SFPUC Water Purchases	5,096,000	5,096,000	5,096,000	5,341,000	5,586,000			
BAWSCA Bond Surcharge	500,000	500,000	500,000	500,000	500,000			
Maintenance & Repair	654,000	680,000	707,000	735,000	764,000			
Utilities	306,000	318,000	331,000	344,000	358,000			
Professional Services	406,000	422,000	439,000	457,000	475,000			
		330,000			371,000			
Admin & Equipment	317,000		343,000	357,000				
Membership & Gov't Fees	209,000	217,000	226,000	235,000	244,000			
Other Operating Costs	400,000	416,000	433,000	450,000	468,000			
Subtotal	10,866,000	11,110,000	11,331,000	11,805,000	12,287,000			
Debt Service	1,052,000	1,068,000	1,069,000	1,064,000	1,070,000			
Non-Operating								
Capital Improvements (Pay-Go)	419,000	600,000	750,000	750,000	1,500,000			
OPEB & PRSP Contributions	1,550,000	1,550,000	0	0	0			
Subtotal	1,969,000	2,150,000	750,000	750,000	1,500,000			
Total Expenses	13,887,000	14,328,000	13,150,000	13,619,000	14,857,000			
-			, ,					
Revenues Less Expenses	(1,169,000)		267,000	85,000	(302,000)			
Ending Fund Reserves	3,729,000	2,323,000	2,590,000	2,675,000	2,373,000			
% of O&M+Debt	31%	19%	21%	21%	18%			
Debt Service Coverage	1.76	1.70	1.95	1.78	2.12			
Project Fund for 2016 COPs								
Beginning Project Fund	19,225,000	15,977,000	12,815,000	4,217,000	1,090,000			
Interest Earnings	200,000	143,000	85,000	26,000	5,000			
merest Lamings	200,000	1+3,000	03,000	20,000	3,000			
Capital Improvements	3,448,000	3,305,000	8,683,000	3,153,000	1,095,000			
Ending Project Fund	15,977,000	12,815,000	4,217,000	1,090,000	\$3M Shortfall			
		1						
Capital Funding Target	3,448,000	3,305,000	8,683,000	3,153,000	4,074,000			

Table 7 Mid-Peninsula Water District Projected Water Rates

Fixed Charges: Lag Adopted Rate Increases by 1 Year Usage Charges: Adopted Rates Adjusted by SFPUC Differential

Proposed Water Rates Effective July 1, 2018								
		2017/18	2018/19	Decrease from		2018/19		
		Current	Adopted	Adopted F	<u>Rates</u>	Proposed		
		Rates	Rates	\$	%	Rates		
Fixed Month	ly Charges							
Billed based o	on meter size							
Meter	Meter Ratio							
5/8"	1.00	\$24.00	\$28.00	(\$2.00)	-7.1%	\$26.00		
1"	1.50	36.00	42.00	(3.00)	-7.1%	39.00		
1 1/2"	2.50	60.00	70.00	(5.00)	-7.1%	65.00		
2"	4.00	96.00	112.00	(8.00)	-7.1%	104.00		
3"	6.00	144.00	168.00	(12.00)	-7.1%	156.00		
4"	10.00	240.00	280.00	(20.00)	-7.1%	260.00		
6"	25.00	600.00	700.00	(50.00)	-7.1%	650.00		
Matar Canau	wastian Charres			CEDILIC				
	mption Charges	atan usa (¢ /b af)		SFPUC				
	on monthly metered w	ater use (\$/ncj)		Rate Differential*				
Residential R Tier 1	0 - 2 hcf	\$5.62	\$5.90	(0.21)	-3.6%	\$5.69		
Tier 2	3 - 8 hcf	\$3.02 8.22	\$3.90 8.65	(0.21)	-2.4%	\$5.09 8.44		
Tier 3	9 - 20 hcf	9.82	10.50	(0.21)	-2.4%	10.29		
Tier 4	Over 20 hcf	11.42	12.35	(0.21)	-1.7%	10.29		
1101 4	Over 20 IICI	11.42	12.55	(0.21)	-1./70	12.14		
Commercial I	Rate Tiers							
T' 4	0.51.6	67.57	67.7F	maintain 	0.00/	47		
Tier 1	0 - 5 hcf	\$7.57	\$7.75	current rate	0.0%	\$7.57		
Tier 2	Over 5 hcf	8.67	9.10	(0.21)	-2.3%	8.89		
Note: 1 hcf =	one hundred cubic fee	et or approximatel	ly 748 gallons.					

^{*} Accounts for difference between SFPUC's prior projected rate used in the rate study (\$4.31), and SFPUC's latest wholesale rate projection for fiscal year 2018/19 (4.10).

Table 8
Mid-Peninsula Water District
Impact of Proposed Rates on Monthly Water Bills

	Impact of Proposed Rates Effective July 1, 2018							
Monthly	% of Bills	% of Bills	Mo	onthly Charges		Impact of Proposed I	Rates Compared to	
Use (hcf)	in Block	at or Below	Current	Adopted	Proposed	Current Rates	Adopted Rates	
0	1.1%	1.1%	\$24.00	\$28.00	\$26.00	\$2.00	(\$2.00)	
1	2.8%	3.9%	29.62	33.90	31.69	2.07	(2.21)	
2	5.1%	9.1%	35.24	39.80	37.38	2.14	(2.42)	
3	7.5%	16.5%	43.46	48.45	45.82	2.36	(2.63)	
4	9.4%	26.0%	51.68	57.10	54.26	2.58	(2.84)	
5	9.9%	35.8%	59.90	65.75	62.70	2.80	(3.05)	
6	9.0%	44.9%	68.12	74.40	71.14	3.02	(3.26)	
7	7.7%	52.6%	76.34	83.05	79.58	3.24	(3.47)	
8	6.9%	59.5%	84.56	91.70	88.02	3.46	(3.68)	
9	5.8%	65.3%	94.38	102.20	98.31	3.93	(3.89)	
10	5.0%	70.2%	104.20	112.70	108.60	4.40	(4.10)	
11	4.3%	74.5%	114.02	123.20	118.89	4.87	(4.31)	
12	3.7%	78.2%	123.84	133.70	129.18	5.34	(4.52)	
13	3.1%	81.3%	133.66	144.20	139.47	5.81	(4.73)	
14	2.7%	84.0%	143.48	154.70	149.76	6.28	(4.94)	
15	2.2%	86.2%	153.30	165.20	160.05	6.75	(5.15)	
16	1.9%	88.1%	163.12	175.70	170.34	7.22	(5.36)	
17	1.6%	89.6%	172.94	186.20	180.63	7.69	(5.57)	
18	1.3%	91.0%	182.76	196.70	190.92	8.16	(5.78)	
19	1.2%	92.2%	192.58	207.20	201.21	8.63	(5.99)	
20	1.1%	93.3%	202.40	217.70	211.50	9.10	(6.20)	
21	0.9%	94.2%	213.82	230.05	223.64	9.82	(6.41)	
22	0.7%	94.9%	225.24	242.40	235.78	10.54	(6.62)	
23	0.7%	95.6%	236.66	254.75	247.92	11.26	(6.83)	
24	0.6%	96.2%	248.08	267.10	260.06	11.98	(7.04)	
25	0.4%	96.6%	259.50	279.45	272.20	12.70	(7.25)	
26	0.4%	97.1%	270.92	291.80	284.34	13.42	(7.46)	
27	0.4%	97.4%	282.34	304.15	296.48	14.14	(7.67)	
28	0.3%	97.8%	293.76	316.50	308.62	14.86	(7.88)	
29	0.2%	98.0%	305.18	328.85	320.76	15.58	(8.09)	
30	0.2%	98.2%	316.60	341.20	332.90	16.30	(8.30)	
50	31-50: 1.5%	99.7%	545.00	588.20	575.70	30.70	(12.50)	
75	>50: 0.3%	100.0%	830.50	896.95	879.20	48.70	(17.75)	