

BARTLE WELLS ASSOCIATES INDEPENDENT PUBLIC FINANCE ADVISORS

TO:	Dave Stoldt, General Manager Suresh Prasad, Administrative Services Manager/Chief Financial Officer
FROM:	Thomas Gaffney, Principal
DATE:	April 12, 2012
SUBJECT:	Monterey Peninsula Water Management District User Fee
	TECHNICAL MEMORANDUM

Introduction

The Monterey Peninsula Water Management District (the "District" or "MPWMD") is an independent special district that manages and regulates the use, reuse and reclamation of surface and groundwater within its jurisdiction. The District is charged with conservation and augmentation responsibilities in addition to its responsibility to integrate management of ground and surface water resources. To this end, the District owns and jointly operates with California American Water Company ("Cal-Am") an Aquifer Storage and Recovery ("ASR") project that diverts excess surface flows from the Carmel River through the Cal-Am system for injection into the Seaside Groundwater Basin through the District's ASR wells. The ASR project enables recovery of the injected water by Cal-Am for delivery to its customers in the summer when the Carmel River is dry or at low flow. Further, the District intends to enter into agreement with Monterey Regional Water Pollution Control Agency ("MRWPCA") and Cal-Am for a Groundwater Replenishment ("GWR") project enabling the advanced treatment of wastewater from the MRWPCA regional facility for injection into the Seaside Groundwater Basin through MRWPCA wells to be developed and subsequent recovery of the injected water by Cal-Am for delivery to its customers.

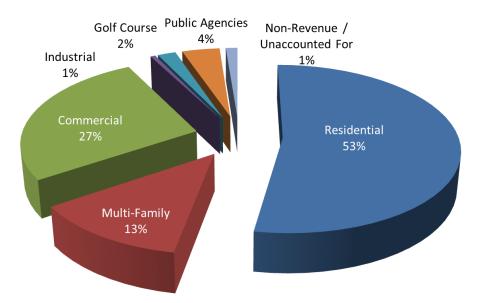
Until recently, the District funded its activities through a user fee collected from Cal-Am customers and other water system customers on the customer bills. The collection of the user fee was recently eliminated by a ruling of the California Public Utilities Commission (CPUC) in the General Rate Case of Cal-Am. To continue its activities, the District must now develop a new mechanism for collecting fees.

The District intends to dedicate the revenues from the new fee collection mechanism to the development of ASR, GWR, and other water supply activities.

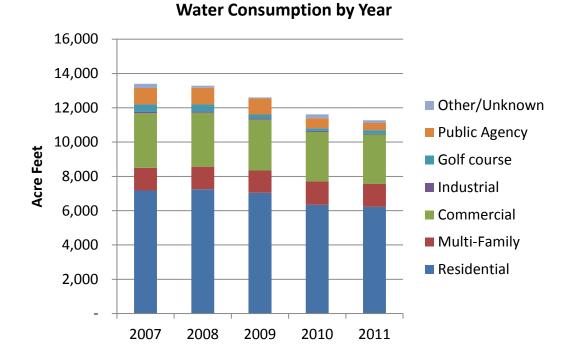
Water Consumption

MPWMD serves approximately 43,500 connections in the Cal-Am service area with water supply from ASR and water supply management services. In the Cal-Am service area, residential customers account for about 53% of water use, multi-family accounts for 13%, commercial accounts for 27%, and the remaining use is from a combination of industrial customers, golf courses, public agencies, and unknown uses or water loss.

Over the past five years, annual water consumption has decreased by about 2,100 acre feet (about 16% relative to the 2007 annual water consumption), which may be the result of conservation, tiered rates, wet weather, and/or poor economy.



Water Demand in the Cal-Am Service Area



Revenue Requirement

The MPWMD Board is required to annually revisit the fee during its budget process to ensure the amounts collected and expended meet the purposes for which the fee is imposed and that the fees reflect the cost of providing service (also called the revenue requirement). The revenue requirement includes the operating costs, capital costs, debt service cost, and funding of adequate fund reserves, especially as the costs relate to provision of water and water supply management to existing customers. The historical revenue requirement and results of operations are shown in Table 1. Depending largely on personnel, services & supplies and project expenditures the revenue requirement for the District has ranged from \$5.8 million to \$8.0 million over the past four years.

Operating costs include staff salaries, legal and professional services, and utilities and are budgeted at about \$4.3 million in FY2011/12, see Table 2. Capital costs are budgeted at \$2.6 million in FY2011/12, \$3.0 million in FY2012/13, and \$3.3 million in FY2013/14; see Table 3.

In order to maintain fund reserve balances, meet costs, and to fund new water supply projects, the District will need to recover \$3.7 million annually in user fee revenues.

Table 1Historical Cash FlowsMonterey Peninsula Water Management District

	Actual	Actual	Actual	Draft Actual	Budget
	2007/08	2008/09	2009/10	2010/11	2011/12
BEGINNING FUND BALANCE	\$2,448,848	\$2,569,978	\$2,287,035	\$1,956,452	\$1,518,500
REVENUES					
Property Tax	1,352,826	1,436,800	1,339,138	1,402,646	1,403,000
Permit Fees	327,700	294,053	278,610	296,735	205,000
Interim Mitigation Revenue					1,560,000
Connection Charges	556,370	481,724	466,297	319,728	275,000
User Fees	2,945,384	2,653,827	2,879,934	3,048,993	101,500
Recording Fees, Interest, Other	135,281	88,975	60,560	61,387	26,000
Reimbursements	517,391	573,225	1,270,156	2,450,118	2,009,300
Grants	299,870	0	0	0	929,000
Line of Credit Proceeds	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>675,200</u>
TOTAL REVENUES	6,134,822	5,528,604	6,294,695	7,579,607	7,184,000
EXPENSES					
Personnel	2,996,191	3,017,928	3,192,759	3,255,865	3,248,700
Services and Supplies					
Operating Expenditures	540,220	491,927	459,737	538,162	451,400
Professional Fees	<u>516,383</u>	<u>605,498</u>	<u>560,118</u>	<u>593,882</u>	<u>562,800</u>
Total	1,056,603	1,097,425	1,019,855	1,132,044	1,014,200
Fixed Assets, Projects, Debt Service					
Fixed Assets	150,731	447,313	45,108	73,136	34,100
Project Expenditures	1,810,167	1,248,881	2,367,556	3,533,434	1,205,900
Capital Improvements					2,586,100
Debt Service	N/A	N/A	N/A	23,089	25,000
Election Expense	N/A	N/A	N/A	N/A	169,000
Contingency	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>75,000</u>
Total	1,960,898	1,696,194	2,412,664	3,629,659	4,095,100
TOTAL EXPENSES	6,013,692	5,811,547	6,625,278	8,017,568	8,358,000
		<i></i>	<i></i>		<i></i>
SURPLUS/(DEFICIT)	121,130	(282,943)	(330,583)	(437,961)	(1,174,000)
		62 207 025	64 OFC 453	64 540 404	6244 500
ENDING FUND BALANCE	\$2,569,978	\$2,287,035	\$1,956,452	\$1,518,491	\$344,500

Table 2Cash Flow ProjectionMonterey Peninsula Water Management District

	Budget	Projected	Projected	Projected	
	2011/12	2012/13	2013/14	2014/15	
BEGINNING FUND BALANCE	\$1,518,500	\$344,500	\$344,500	\$344,500	
REVENUES					
Property Tax	1,403,000	1,403,000	1,500,000	1,500,000	
Permit Fees	205,000	300,000	300,000	300,000	
Interim Mitigation Revenue	1,560,000	1,560,000	1,560,000	1,560,000	
Connection Charges	275,000	275,000	350,000	350,000	
User Fees	101,500	3,801,500	3,801,500	3,801,500	
Recording Fees, Interest, Other	26,000	26,000	26,000	26,000	
Reimbursements	2,009,300	1,200,000	1,200,000	1,200,000	
Grants	929,000	0	0	0	
Line of Credit Proceeds	<u>675,200</u>	<u>0</u>	<u>0</u>	<u>0</u>	
TOTAL REVENUES	7,184,000	8,565,500	8,737,500	8,737,500	
EXPENSES					
Personnel	3,248,700	3,313,700	3,380,000	3,447,600	
Services and Supplies					
Legal Services	450,000	459,000	468,200	477,600	
Professional Fees	112,800	115,100	117,400	119,700	
Data Processing	73,800	75,300	76,800	78,300	
Other	<u>377,600</u>	<u>385,200</u>	<u>392,900</u>	<u>400,800</u>	
Total	1,014,200	1,034,600	1,055,300	1,076,400	
Fixed Assets, Projects, Debt Servic					
Fixed Assets	34,100	34,800	35,500	36,200	
Project Expenditures	1,205,900	1,500,000	1,500,000	1,500,000	
Capital Improvements[1]	2,586,100	2,580,900	2,494,700	2,572,700	
Debt Service	25,000	25,000	25,000	25,000	
Election Expense	169,000	0	169,000	0	
Contingency	<u>75,000</u>	<u>76,500</u>	<u>78,000</u>	<u>79,600</u>	
Total	4,095,100	4,217,200	4,302,200	4,213,500	
	8 258 000			9 727 500	
TOTAL EXPENSES	8,358,000	8,565,500	8,737,500	8,737,500	
SURPLUS/(DEFICIT)	(1,174,000)	0	0	0	
ENDING FUND BALANCE	\$344,500	\$344,500	\$344,500	\$344,500	
Reserve Target (6 months of					
expenses)	4,179,000	4,282,800	4,368,800	4,368,800	
expenses	4,179,000	4,202,000	4,308,800	4,306,600	
 [1] FY 2012/13 CIP amounts to \$2,958,600 of which District will fund \$2,580,900. FY 2013/14 CIP amounts to \$3,331,600 of which District will fund \$2,494,700. FY 2013/14 CIP amounts to \$3,000,000 of which District will fund \$2,572,700. 					

FY 2013/14 CIP amounts to \$3,000,000 of which District will fund \$2,572,700.

Table 3 Capital Improvement Plan Monterey Peninsula Water Management District

Water Project 1 (additional construction) Water Project 2 (construction) Water Project 3 (preliminary expenditure) Design, permitting, & Phase 1 of Sleepy Hollow water intake Sleepy Hollow Ford removal and bridge replacement Integrated Regional Water Management Project Feasibility studies and other Water Supply: Aquifer Storage and Recovery Phase 1	FY2011-12 \$737,400 889,900 25,000 470,000 114,300 349,500 0 0	FY2012-13	FY2013-14	After 2014
Completion ¹ Water Supply: Groundwater Replenishment ²	0	\$885,165	\$435,314	\$295,348 50 -
Water Supply: Studies in Support of Desal, GWR, and ASR Operations	0	1,036,550 150,000	1,469,200 250,000	70,000,000 250,000
Water Supply: ASR Expansion Study – Part 1(Scoping locations) Water Supply: ASR Expansion Study – Part 2	0 0	150,000		0
(Easements & Test Wells) Water Supply: Feasibility studies – Other Projects Water Supply: Repayment of Advances for ASR ¹	0 0	200,000 427,056	500,000 200,000 427,056	n.a. n.a. 427,056
Mitigation: Capital ³ TOTAL CIP	<u>0</u> \$2,586,100	<u>109,873</u> \$2,958,644	<u>50,000</u> \$3,331,570	<u>n.a.</u> n.a.

1 - 3-22-12 update per J. Oliver; Capital costs only – staff and overhead captured in operating budget.

2 - 50% of FY 2013 and 2014 costs from Monterey Regional Water Pollution Control Agency GWR Project Planning Costs – Funding 1-2012, plus an additional \$375,000 for environmental work.

3 - February 13, 2012 Comparison of Mitigation Program Costs Spreadsheet; Sum of program area

"capital costs" plus Program Support "capital asset purchases."

User Fee Alternatives

Prior to suspension by the CPUC, the user fees were shown on Cal-Am, Seaside Municipal Water System, and Pebble Beach Reclamation Project customer bills as percentage of meter and water charges. The user fee was set at 8.325% of a Cal-Am customer's water bill when it was suspended. The obligations of the Seaside Municipal Water System and the Reclamation Project were not affected by the CPUC decision.

In FY2010/11, the District collected about \$3.05 million in user fees. In FY2011/12, the District will not collect user fees but collect \$1,560,000 from an interim agreement with Cal-Am to fund a portion of the District's mitigation program expenses. The District must restore the user fee revenues to meet

operating and capital expenses, and to fund new water supply activities.

AWWA Cost of Service and Rate Setting Methodology

The American Water Works Association (AWWA), Manual M1: "Principles of Water Rates, Fees, and Charges", is the water industry standard publication for guidance and good practice on the setting of water rates and fees. The overarching theme of the AWWA Manual M1 is that fees and charges should reflect the costs that a utility incurs to serve each customer class. The AWWA Manual M1 states that the design of fees and charges that recover those costs is a policy decision by the utility and that both fixed and variable (water consumption-based) charges are appropriate fees commonly charged by utilities.

In the sections below, BWA discusses how the District could design the user fee as a variable fee, fixed fee, or a combination of variable and fixed, followed by our recommendation based on the cost-causative approach recommended by the AWWA.

Variable Fee

In the past, the user fee was collected as a percentage of both water rates (variable) and water meter charges (fixed) from customers served by Cal-Am. If the District chooses to adopt a variable charge, the user fee revenue requirement is divided by the service area's water use to determine a cost per unit of water. BWA calculates the user fee at \$0.075 to \$0.082 per 10 cubic feet, see Table 4. The typical single family user fee is estimated at between \$52.75 and \$57.56 per year.

Table 4Variable User Fee CalculationMonterey Peninsula Water Management District

User Fee Revenue Requirement	\$3,700,000	
Estimated High Water Use Estimated Low Water Use	49,100,000 45,000,000	(per 10 cf) (per 10 cf)
User Fee Estimate Low High	\$0.075 \$0.082	(per 10 cf) (per 10 cf)
Median Annual Single Family Water Use	700	(per 10 cf)
Estimated Single Family Fee (high system-wide water use) Estimated Single Family Fee (low system-wide water use)	\$52.75 \$57.56	per year per year

Fixed Fee

Alternately, the District could adopt a fixed fee on a per customer basis. To determine a customer count and a method of scaling the user fee for different types of customers, MPWMD can use a land use basis or a meter equivalent basis.

I. Land Use Basis

MPWMD has detailed records of land use designations within its service areas and could use this information as a basis for determining the user fee. Land use is typically used by agencies to determine outdoor irrigation water demand, to determine impervious area for the calculation of storm water fees, or to calculate sewer fees. An example fee schedule based on land use is shown in Appendix A for the Monterey Regional Water Pollution Control Agency, a wastewater agency. Land use is not typically used as a metric for estimating indoor water usage. Land use records do not usually reflect the number of fixture units in a building or the presence of an irrigation water meter. The land use basis is not recommended by the AWWA.

BWA calculated a user fee based on land use as an alternative for the District to consider. The average indoor and outdoor square feet was determined per each single family dwelling (SFD). All other land use types were scaled in comparison to the parcel size of a SFD.

On a system-wide basis, outdoor water use typically accounts for 20% to 40% of water consumption and indoor use accounts for 60 to 80%. Therefore, BWA recommends recovering 20% of the user fee revenue from outdoor square feet and 80% from indoor square feet on a per parcel basis, see Table 5. Vacant parcels or other parcels that do not have water service should be excluded from the calculations shown in Table 5 and would not be charged a user fee. To account for vacant parcels not receiving service, Table 6 shows a high and low estimate for the user fee calculation.

Table 5Land Use Basis - Single Family Dwelling (SFD)Unit CalculationMonterey Peninsula Water Management District

Single Family Dwelling on 1 Site Number of Parcels 25,208	Outdoor sq. ft. 458,821,840	Avg outdoor sq. ft. per SFD 18,201	Rounded sq. ft. 18,200
Number of Parcels	Indoor sq. ft.	Avg indoor sq. ft. per SFD	Rounded sq. ft.
25,208	45,298,145	1,797	1,800
Land Use	Outdoor sq. ft.	Indoor sq. ft.	
Single Family Dwellings	476,052,954	48,271,218	
Multi Family	698,803,689	14,032,962	
Offices, Libraries, Churches	37,922,662	7,419,713	
Agriculture, Cemeteries, Recreation	748,014,208	569,791	
Auto Shops	3,989,386	521,130	
Medical Office, Hospitals	17,068,564	627,670	
Industrial	9,531,440	1,848,675	
Schools	15,865,770	217,628	
Hotels, Motels	80,578,370	2,540,078	
Restaurants, Malls, Markets	18,635,788	2,334,245	
Underdeveloped or Vacant	<u>682,235,413</u>	<u>70,219</u>	
Total	2,788,698,244	78,453,329	
Total Outdoor sq. ft.	SFD Outdoor sq. ft.	SFD Outdoor Equivalents	
2,800,000,000	/ 18,200 =	153,800	
Total Indoor sq. ft.	SFD Indoor sq. ft.	SFD Indoor Equivalents	
80,000,000	/ 1,800 =	43,600	
	SFD Equivalents	Allocation	Total SFDs
SFD Outdoor Equivalents	153,800	20%	30,800
SFD Indoor Equivalents	43,600	80%	<u>34,900</u>
	13,000	00/0	<u>54,500</u> 65,700

A sampling of the land use types and their corresponding user fees are shown in Table 6. A complete list of land use types is shown in Appendix B.

Table 6Land Use Basis - User Fee CalculationMonterey Peninsula Water Management District

Revenue Requirement \$3,700,000 \$3,700,000	SFDs / 65,700 = / 55,600 =	Annual User Charge per SFD \$56.37 \$67.27	(high SFD count) (low SFD count)
Land Has	Avg SFD Count	Annual User Fee	Annual User Fee
Land Use	per Parcel	(high SFD count)	(low SFD count)
Single Family Dwellings	1.0	\$56.37	\$67.27
Multifamily	1.7	94.25	112.48
Churches	2.9	161.71	192.98
Auto Shops	1.5	85.32	101.82
Hospitals	5.9	334.16	398.79
Hotels, Motels	3.6	203.13	242.42
Restaurants	1.7	94.12	112.32
Theaters	4.2	235.69	281.27
Schools	4.8	268.08	319.93
Supermarket	4.8	271.68	324.22
Light Industrial	2.1	119.21	142.27

II. Meter Equivalent Basis

The meter equivalent basis involves scaling each customer's fee based on the size of the meter. A single meter equivalent is set as the maximum day demand of a $5/8 \times 3/4$ " meter. The fees for larger meter sizes are scaled up in comparison to the $5/8 \times 3/4$ " meter. For example, using Cal-Am's meter equivalents, a single 6" meter is equivalent to 50 customers with $5/8 \times 3/4$ " meters, a ratio of 1:50. A summary of the Cal-Am meter equivalents for various meter sizes is presented in Table 7.

Table 7Cal-Am Meter Equivalents per Meter SizeMonterey Peninsula Water Management District

Meter Size	Cal-Am Monthly Meter Charge	No. of Meter Equivalents per Meter Size
5/8 x 3/4"	\$8.91	1.0
3/4"	13.37	1.5
1"	22.28	2.5
1 1/2"	44.55	5.0
2"	71.28	8.0
3"	133.65	15.0
4"	222.75	25.0
6"	445.50	50.0
8″	712.80	80.0

BWA reviewed the billing records of Cal-Am and the City of Carmel-by-the-Sea and determined the total number of meter equivalents of the customers served by MPWMD, see Table 8. The Cal-Am billing records did not identify dedicated fire protection meters or accounts that were upsized to meet fire flow standards. Fire flow can be significantly higher than the maximum day demand of a customer and fire flow should not be used as the sole basis to assign meter equivalents. To be conservative, BWA estimates that up to 4,000 meter equivalents may be sized to accommodate fire flow and should receive a charge proportional to actual use. The American Water Works Association estimates that for a service area of MPWMD's size, approximately 10% of system capital costs are attributable to fire flow capacity.

BWA recommends that MPWMD adopt an appeals process for customers who believe that they should be granted a reduction due to upsizing of their meters to meet fire flow requirements. BWA recommends that MPWMD adjust the user fees for upsized meters according to the current practice of Cal-Am.

Table 8Total Meter EquivalentsMonterey Peninsula Water Management District

* Rounded

Meter Size Cal-Am Service Area	Number of Meters	Cal-Am Monthly Meter Charge	No. of Meter Equivalents per Meter Size	Total Meter Equivalents
5/8 x 3/4"	37,631	\$8.91	1.0	37,631.0
3/4"	277	13.37	1.5	415.7
1"	5,255	22.28	2.5	13,140.4
1 1/2"	852	44.55	5.0	4,260.0
2"	636	71.28	8.0	5,088.0
3"	24	133.65	15.0	360.0
4"	22	222.75	25.0	550.0
6"	11	445.50	50.0	550.0
8"	<u>13</u>	712.80	80.0	<u>1,040.0</u>
Cal-Am Total	44,721			63,035.1
Total - high count of m	eter equivalent		clude some fire protection m	63,000 leter equivalents)
Total - low count of meter equivalents* 59,000				

Meter equivalents are commonly used by utilities as a proxy for the maximum day demand of various customer types. Many water agencies in California use meter equivalents as a basis for fixed charges and system capacity or connection fees. The user fee calculations based on meter equivalents are presented in Table 9.

(estimate without fire protection meter equivalents)

Table 9Meter Equivalents - User Fee CalculationMonterey Peninsula Water Management District

User Fee Revenue Requirement	High Count of Meter Equivalents \$3,700,000	Low Count of Meter Equivalents \$3,700,000
Number of Meter Equivalents	63,000	59,000
Annual User Fee per Meter Equivalent	\$58.73	\$62.71
Annual Usage Fee per Meter Size 5/8 x 3/4" 3/4" 1" 1 1/2" 2" 3" 4"	\$58.73 88.13 146.86 293.65 469.84 880.95 1,468.25 2.036 51	\$62.71 94.10 156.81 313.56 501.69 940.68 1,567.80
6" 8"	2,936.51 4,698.41	3,135.59 5,016.95

III. Hybrid Approach

It may be appropriate to utilize a hybrid approach that incorporates both meter equivalents and water consumption for the calculation of the user fees. The California Urban Water Conservation Council recommends that water utilities set rates such that 70% of rate revenues are collected from variable charges and 30% of rate revenues are collected from fixed charges. The hybrid approach proposed by Bartle Wells Associates follows this recommendation and collects 30% of the user fee revenue requirement from meter equivalents and 70% of the user fee revenue requirement from water use. This approach is consistent with the cost-causative methodology proposed by AWWA.

As a first step, BWA determined the revenue requirement of each customer class based on water use, see Table 10. The revenue requirement for each customer class was then allocated 70% to the variable user fee and 30% to the fixed user fee. The fixed user fee is determined using the meter equivalents for each class and calculating a unit cost per meter equivalent. Here, "variable" means usage that varies based on property use category. The variable fee is calculated via applying the unit cost of water to the typical water use of each customer in a land use category.

For residential customers, water use varies dramatically depending on the size of the home. Therefore, BWA developed four single family residential customer classes to account for varying usage patterns. Meter equivalents per meter size for the single family category were adjusted to reflect the difference in the size of home and the actual number of homes in each category. For the commercial customers, BWA used the water usage factors utilized by the Monterey Regional Water Pollution Control Agency to set sewer rates. BWA made adjustments to the water usage factors to account for outdoor irrigation. The usage factors are based on historic data, state imposed standards, and local flow information.

Table 10Revenue Requirement of Each Customer ClassMonterey Peninsula Water Management District

Customer Class	Water Use (10 cf)	% of Water Use*	Revenue Requirement
Residential	27,110,000	55.2%	\$2,043,000
Multi-Family	5,818,000	11.8%	\$438,000
Commercial & Unknown	13,209,000	26.9%	\$995,000
Industrial	237,000	0.5%	\$18,000
Golf course	875,000	1.8%	\$66,000
Public Agency	<u>1,849,000</u>	<u>3.8%</u>	<u>\$139,000</u>
Total	49,098,000	100.0%	\$3,700,000
High Water Use Estimate			
Variable User Fee Portion	70% alloc	ation of \$3,700,000	\$2,590,000
System Water Use (10 cf)			49,098,000
Cost per Unit (10 cf)			\$0.053
Low Water Use Estimate			
Variable User Fee Portion	70% alloc	ation of \$3,700,000	\$2,590,000
System Water Use (10 cf)			45,000,000
Cost per Unit (10 cf)			\$0.058
* All service areas of MPWMD			

Table 11Hybrid Approach - Meter Fee Portion (High Equivalent Estimate)Monterey Peninsula Water Management District

Revent	ue Requirement	30% Meter Fee Allocation \$1,110,000	70% Variable Fee Allocation \$2,590,000	Total \$3,700,000
	% of Revenue	Meter Fee Revenue	Meter Equivalents	Fee per Meter
Customer Class	Requirement	Requirement	(High Estimate)	Equivalent
Residential	55.2%	\$612,900	36,400	\$16.84
Multi-Family	11.8%	\$131,500	10,400	\$12.64
Nonresidential	<u>32.9%</u>	<u>\$365,600</u>	<u>16,200</u>	\$22.57
Total	100.0%	\$1,110,000	63,000	

Table 12

Hybrid Approach - Meter Fee Portion (Low Equivalent Estimate) Monterey Peninsula Water Management District

Reven	ue Requirement	30% Meter Fee Allocation \$1,110,000	70% Variable Fee Allocation \$2,590,000	Total \$3,700,000
Customer Class	% of Revenue Requirement	Meter Fee Revenue Requirement	Meter Equivalents (Low Estimate)	Fee per Meter Equivalent
Residential	55.2%	, \$612,900	34,100	\$17.97
Multi-Family	11.8%	\$131,500	9,800	\$13.42
Nonresidential	<u>32.9%</u>	\$365,600	<u>15,200</u>	\$24.05
Total	100.0%	\$1,110,000	59,000*	
*Rounded				

Table 13Hybrid Approach User Fee Calculation - Residential, Low User Fee EstimateMonterey Peninsula Water Management District

Residential Revenue Requirement	\$2,043,000		
Meter Equivalents		Water Use	
30% Allocation to Meter Equivalents	\$612,900	70% Allocation to Water Use	\$1,430,100
Residential Meter Equivalents	36,400	Residential Water Use (10 cf)	27,110,000
User Fee - Meter Portion	\$16.84	User Fee - Water Use Portion	\$0.053
		No. of Meter Equivalents per	
Meter Size		Meter Size	Meter Fee
5/8 x 3/4"			
Small house (less than 1,200 sq ft)		0.85	\$14.31
Medium house (1,200 to 2,000 sq ft)		1.00	\$16.84
Medium/large house (2,000 to 4,000 sq ft)		1.15	\$19.36
Large house (4,000 sq ft+)		1.15	\$19.36
3/4"		1.50	\$25.27
1"		2.50	\$42.10
1 1/2"		5.00	\$84.19
2"		8.00	\$134.70
3"		15.00	\$252.57
4"		25.00	\$420.95

Sample Residential Bills 5/8 x 3/4" meter	Meter Equivalent	Meter Fee	Water Use Fee	Total Annual User Fee
Small house (less than 1,200 sq ft)	0.85	\$14.31	\$23.74	\$38.05
Medium house (1,200 to 2,000 sq ft)	1.00	\$16.84	\$36.93	\$53.76
Medium/large house (2,000 to 4,000 sq ft)	1.15	\$19.36	\$73.85	\$93.22
Large house (4,000 sq ft+)	1.15	\$19.36	\$147.70	\$167.07
1" meter				
Medium/large house (2,000 to 4,000 sq ft)	2.50	\$42.10	\$73.85	\$115.96

Table 14Hybrid Approach User Fee Calculation - Residential, High User Fee EstimateMonterey Peninsula Water Management District

Residential Revenue Requirement	\$2,043,000				
Meter Equivalents		Water Use			
30% Allocation to Meter Equivalents	\$612,900	70% Allocation to Water Use	\$1,430,100		
Residential Meter Equivalents	34,100	Residential Water Use (10 cf)	24,847,000		
User Fee - Meter Portion	\$17.97	User Fee - Water Use Portion	\$0.058		
		No. of Meter Equivalents			
Meter Size		per Meter Size	Meter Fee		
5/8 x 3/4"					
Small house (less than 1,200 sq ft)		0.85	\$15.28		
Medium house (1,200 to 2,000 sq ft)		1.00	\$17.97		
Medium/large house (2,000 to 4,000 sq ft)		1.15	\$20.67		
Large house (4,000 sq ft+)		1.15	\$20.67		
3/4"		1.50	\$26.97		
1"		2.50	\$44.94		
1 1/2"		5.00	\$89.87		
2"		8.00	\$143.79		
3"		15.00	\$269.60		
4"		25.00	\$449.34		
					Total Annual
Sample Residential Bills 5/8 x 3/4" meter		Meter Equivalent	Meter Fee	Water Use Fee	User Fee

Sample Residential Bills	Meter Equivalent	Meter Fee	Water Use Fee	User Fee
5/8 x 3/4" meter				
Small house (less than 1,200 sq ft)	0.85	\$15.28	\$25.90	\$41.18
Medium house (1,200 to 2,000 sq ft)	1.00	\$17.97	\$40.29	\$58.26
Medium house (2,000 to 4,000 sq ft)	1.15	\$20.67	\$80.58	\$101.25
Large house (4,000 sq ft+)	1.15	\$20.67	\$161.16	\$181.83
1" meter				
Medium/large house (2,000 to 4,000 sq ft)	2.50	\$44.94	\$80.58	\$125.52

Table 15Hybrid Approach- Multifamily User Fee Calculation, Low User Fee EstimateMonterey Peninsula Water Management District

		30% Meter	70% Variable	
		Fee Allocation	Fee Allocation	Total
Ν	Aultifamily Revenue Requirement	\$131,400	\$306,600	\$438,000
		Fee per		
		Meter		
	Number of Meter Equivalents	Equivalent		
Meter Equivalents	10,400	\$12.64		
	No. of Meter Equivalents per			
Meter Portion	Meter Size	Meter Fee		
5/8 x 3/4"	1.0	\$12.64		
3/4"	1.5	\$18.97		
1"	2.5	\$31.62		
1 1/2"	5.0	\$63.22		
2"	8.0	\$101.15		
3"	15.0	\$189.66		
4"	25.0	\$316.11		
6"	50.0	\$632.21		
8"	80.0	\$1,011.54		
Average Water Use	Per Multifamily Unit		380	(10 cf per year)
Cost per unit of wate	er		\$0.053	
Water Use Fee per M	Iultifamily Unit		\$20.05	
Sample User Fee				
Calculation		Meter Fee	Water Use Fee	Total User Fee
Duplex with 1" mete		\$31.62	\$40.10	\$71.72
•	uilding with 2" meter	\$101.15	\$200.50	\$301.65
•	uilding with 4" meter	\$316.11	\$200.50	\$516.61
30 Unit apartment b	uilding with 6" meter	\$632.21	\$601.50	\$1,233.71

Table 16Hybrid Approach- Multifamily User Fee Calculation, High User Fee EstimateMonterey Peninsula Water Management District

M	ultifamily Revenue Requirement	30% Meter Fee Allocation \$131,400	70% Variable Fee Allocation \$306,600	Total \$438,000
	No. of Meter Equivalents	Fee per Meter Equivalent		
Meter Equivalents	9,800	\$13.42		
	No. of Meter Equivalents per			
Meter Portion	Meter Size	Meter Fee		
5/8 x 3/4"	1.0	\$13.42		
3/4"	1.5	\$20.14		
1"	2.5	\$33.55		
1 1/2"	5.0	\$67.09		
2"	8.0	\$107.35		
3"	15.0	\$201.28		
4"	25.0	\$335.46		
6"	50.0	\$670.92		
8"	80.0	\$1,073.47		
Average Water Use Cost per unit of wat	Per Multifamily Unit er		380 \$0.058	(10 cf per year)
Water Use Fee per N	Multifamily Unit		\$21.87	
Sample User Fee Ca	lculation	Meter Fee	Water Use Fee	Total User Fee
Duplex with 1" mete	er	\$33.55	\$43.74	\$77.29
10 Unit apartment b	uilding with 2" meter	\$107.35	\$218.70	\$326.05
10 Unit apartment b	uilding with 4" meter	\$335.46	\$218.70	\$554.16
30 Unit apartment b	uilding with 6" meter	\$670.92	\$656.10	\$1,327.02

Table 17Hybrid Approach - Nonresidential User Fee Calculation, Low User Fee EstimateMonterey Peninsula Water Management District

Nonresidential Revenue Requirement	30% Meter Fee Allocation \$366,000	70% Variable Fee Allocation \$853,000	Total \$1,219,000
METER FEE			
Nonresidential Meter Equivalents		16,200	
Nonresidential Meter Fee per Meter Equivalent		\$22.57	
	No. of Meter		
	Equivalents per		
Meter Size	Meter Size	Meter Fee	
5/8 x 3/4"	1.0	\$22.57	
3/4"	1.5	\$33.85	
1"	2.5	\$56.42	
1 1/2"	5.0	\$112.84	
2"	8.0	\$180.54	
3"	15.0	\$338.52	
4"	25.0	\$564.20	
6"	50.0	\$1,128.40	
8"	80.0	\$1,805.43	
WATER USAGE FEE			
User Classes	Minimum Meter Fee	Unit	
Business or Govt Office	\$50.64	per 10 employees	
Hotel/Motel	\$30.85	per room	
Supermarkets	\$250.73	per location/each business	
Medical Office	\$43.27	per licensed physician	
General Hospital	\$113.80	per bed of licensed capacity	
Restaurant 1 meal/day	\$2.33	per seat	
Restaurant 2 meals/day	\$3.64	per seat	
Restaurant 3 meals/day	\$6.99	per seat	
Nightclub	\$223.91	per location/each business	
Takeout Food - small	\$79.02	1 cash register or checkout la	ne
Takeout Food - medium	\$203.00	2 or 3 cash registers or checke	out lanes
Takeout Food - large	\$356.82	4+ cash registers or checkout	lanes
Bakery	\$97.65	per location/each business	
Theater	\$104.78	per screen	
Mortuary	\$122.82	per location/each business	
School (Grades 0-6)	\$0.87	per student	
School (Grades 7- college)	\$1.75	per student	
Church (less than 100 members)	\$50.64	per location	
Church (more than 100 members)	\$101.28	per location	
Auto Painters/Body Shop	\$50.64	per 10 employees	
Dry Cleaner	\$64.73	per location/each business	
Laundromat	\$20.37	per each washing machine	

\$101.28

\$101.28

per acre

per acre

Golf Course

City Parks, Cemeteries, Other Irrigated Area

Table 18Hybrid Approach - Nonresidential User Fee Calculation, High User Fee EstimateMonterey Peninsula Water Management District

	30% Meter Fee Allocation	70% Variable Fee Allocation	Total
Nonresidential Revenue Requirement	\$366,000	\$853,000	\$1,219,000
METER FEE			
Nonresidential Meter Equivalents		15,200	
Nonresidential Meter Fee per Meter Equivalent		\$24.05	
	No. of Meter		
	Equivalents per		
Meter Size	Meter Size	Meter Fee	
5/8 x 3/4"	1.0	\$24.05	
3/4"	1.5	\$36.08	
1"	2.5	\$60.13	
1 1/2"	5.0	\$120.26	
2"	8.0	\$192.42	
3"	15.0	\$360.79	
4"	25.0	\$601.32	
6"	50.0	\$1,202.63	
8"	80.0	\$1,924.21	
WATER USAGE FEE			
User Classes	Minimum User Fee	Unit	
Business or Govt Office	\$55.25	per 10 employees	
Hotel/Motel	\$33.66	per room	
Supermarkets	\$273.57	per location/each business	
Medical Office	\$47.21	per licensed physician	
General Hospital	\$124.16	per bed of licensed capacity	/
Restaurant 1 meal/day	\$2.54	per seat	
Restaurant 2 meals/day	\$3.97	per seat	
Restaurant 3 meals/day	\$7.62	per seat	
Nightclub	\$244.30	per location/each business	
Takeout Food - small	\$86.22	1 cash register or checkout	lane
Takeout Food - medium	\$221.49	2 or 3 cash registers or che	
Takeout Food - large	\$389.32	4+ cash registers or checko	ut lanes
Bakery	\$106.54	per location/each business	
Theater	\$114.32	per screen	
Mortuary	\$134.01	per location/each business	
School (Grades 0-6)	\$0.95	per student	
School (Grades 7- college)	\$1.91	per student	
Church (less than 100 members)	\$55.25	per location	
Church (more than 100 members)	\$110.51	per location	
Auto Painters/Body Shop	\$55.25	per 10 employees	
Dry Cleaner	\$70.62	per location/each business	
Laundromat	\$22.23	per each washing machine	
Golf Course	\$110.50	per acre	
City Parks, Cemeteries, Other Irrigated Area	\$110.50	per acre	

Table 19Hybrid Approach - Nonresidential Sample BillsMonterey Peninsula Water Management District

Low User Fee Estimate			
	Meter Fee	Water Use Fee	Total User Fee
Hotel with 2" meter, 30 rooms	\$180.54	\$925.52	\$1,106.06
Office with 1 1/2" meter, 35 employees	\$112.84	\$202.57	\$315.41
Restaurant with 1" meter, serves 2 meals/day, 40 seats	\$56.42	\$145.52	\$201.94
Commercial building with 2" meter	\$180.54		
Takeout Food - small		\$79.02	
Office with 7 employees		\$50.64	
Retail store with 12 employees		<u>\$101.28</u>	
Total commercial building	\$180.54	\$230.94	\$411.49
High User Fee Estimate			
High User Fee Estimate	Meter Fee	Water Use Fee	Total User Fee
High User Fee Estimate Hotel with 2" meter, 30 rooms	Meter Fee \$192.42	Water Use Fee \$1,009.81	Total User Fee \$1,202.23
Hotel with 2" meter, 30 rooms	\$192.42	\$1,009.81	\$1,202.23
Hotel with 2" meter, 30 rooms Office with 1 1/2" meter, 35 employees	\$192.42 \$120.26	\$1,009.81 \$221.02	\$1,202.23 \$341.28
Hotel with 2" meter, 30 rooms Office with 1 1/2" meter, 35 employees Restaurant with 1" meter, serves 2 meals/day, 40 seats	\$192.42 \$120.26 \$60.13	\$1,009.81 \$221.02	\$1,202.23 \$341.28
Hotel with 2" meter, 30 rooms Office with 1 1/2" meter, 35 employees Restaurant with 1" meter, serves 2 meals/day, 40 seats Commercial building with 2" meter	\$192.42 \$120.26 \$60.13	\$1,009.81 \$221.02 \$158.78	\$1,202.23 \$341.28
Hotel with 2" meter, 30 rooms Office with 1 1/2" meter, 35 employees Restaurant with 1" meter, serves 2 meals/day, 40 seats Commercial building with 2" meter Takeout Food - small	\$192.42 \$120.26 \$60.13	\$1,009.81 \$221.02 \$158.78 \$86.22	\$1,202.23 \$341.28

Bill Impacts

Cal-Am customers had been paying 8.325% surcharge on their bills for the MPWMD user fee. A single family customer would pay between \$30 and \$45 per year depending on water use. The new user fee could range from \$52.72 to \$67.27 per year based on the alternative selected by the District, see Table 20. A small residence, less than 1,200 square feet, could pay even less.

Table 20Comparison of User Fee Alternatives for Single Family CustomerMonterey Peninsula Water Management District

Alternatives	Annual User Fee (Low Estimate)	Annual User Fee (High Estimate)
Variable User Fee Basis	\$52.75	\$57.56
Land Use Basis	56.32	67.27
Meter Equivalent Basis	58.73	62.71
Hybrid Approach (medium house)	53.76	58.26

BWA also recommends that the District implement an appeals process by which customers can contest their user fee. If customers can produce new information regarding their meter size, type of business, or home size, the general manager should have the authority to adjust the user fees as appropriate.

In addition, BWA recommends that MPWMD adopt an appeals process for customers who believe that they should be granted a reduction due to upsizing of their meters to meet fire flow requirements. BWA recommends that MPWMD adjust the user fees for upsized meters according to the current practice of Cal-Am.

Recommended Approach and User Fee Alternative

Cost of Service Approach

The AWWA Manual M1 states that both fixed and variable fees are a valid method of cost recovery. The AWWA Manual M1 describes this cost-causative approach on page 112:

"A cost-of-service approach to setting water rates allocates costs to each customer or customer class based on the theory of cost causation. A dual set of fees – fixed and variable – is an extension of this cost causation theory. A utility incurs some costs associated with serving customers irrespective of the amount or rate of water they use. These types of costs are referred to as *customer costs* and typically are costs that would be recovered through a fixed charge. These costs are usually recovered on a per customer basis or some other non-consumption basis."

The District's function is to manage water resources on a watershed basis to protect supply for current and future use. However, the District is also mindful that major portions of existing water supply shall not be available to present users due to decisions of the Superior Court and the State Water Resources Control Board. Therefore, the District incurs costs from water supply activities, which have a fixed and variable component. Here, "variable" means usage that varies based on property use category. The variable cost component is associated with the average day consumption within the District. Each customer or land use class should pay a portion of the user fee for the actual demand that the customer places on water supply. The fixed cost component is associated with the excess water supply needed to meet peak demand and long-term build-out demand of the Monterey Peninsula. The District does not release water supplies or acquire new supplies based on minor year-to-year changes in demand. Instead, the decision to acquire new supplies is based on long-term analysis of system-wide maximum demand. Meter equivalents are an appropriate metric to collect fixed costs because meter size reflects the maximum (peak) capacity of each meter.

Recommended Approach

Bartle Wells Associates recommends the hybrid approach as the preferred alternative to calculate the District's user fees. Of the alternatives discussed in this report, the hybrid approach most closely reflects how the District incurs costs. The hybrid approach also creates a conservation pricing signal as recommended by the California Urban Water Conservation Council. The hybrid method of calculating user fee is cost-causative and addresses the CPUC's opposition to the old billing method.

Within this report, BWA provides high and low user fee calculations based on estimates of meter equivalents and water use. BWA recommends that MPWMD adopt rates based on a meter equivalent count of 63,000 meter equivalents and a water unit cost of \$0.055 per 10 cf of water. These parameters accurately reflect the number of meters within the District and the District's cost of securing water supply. The recommended user fees are shown in Tables 21, 22, 23, and 24. For a full list of the nonresidential user fees by type of business see Appendix C.

Table 21Recommended Single Family User FeeMonterey Peninsula Water Management District

	No. of Meter			
	Equivalents per			
Meter Size	Meter Size	Meter Fee	Water Use Fee	
5/8 x 3/4"			\$0.055	(per 10 cf)
Small house (less than 1,200 sq ft)	0.85	\$14.31		
Medium house (1,200 to 2,000 sq ft)	1.00	\$16.84		
Medium/large house (2,000 to 4,000 sq ft)	1.15	\$19.36		
Large house (4,000 sq ft+)	1.15	\$19.36		
3/4"	1.50	\$25.27		
1"	2.50	\$42.10		
1 1/2"	5.00	\$84.19		
2"	8.00	\$134.70		
3"	15.00	\$252.57		
4"	25.00	\$420.95		
Sample Residential Bills	Meter	Meter Fee	Water Use Fee	Total Annua

	Equivalents	Wieter ree	Water Ose ree	User Fee
Vacant house		based on size of meter	50% of non- vacant fee	
5/8 x 3/4" meter				
Small house (less than 1,200 sq ft)	0.85	\$14.31	\$24.75	\$39.06
Medium house (1,200 to 2,000 sq ft)	1.00	\$16.84	\$38.50	\$55.34
Medium house (2,000 to 4,000 sq ft)	1.15	\$19.36	\$77.00	\$96.36
Large house (4,000 sq ft+)	1.15	\$19.36	\$154.00	\$173.36
1" meter				
Medium/large house (2,000 to 4,000 sq ft)	2.50	\$42.10	\$77.00	\$119.10

Table 22Recommended Multifamily User FeeMonterey Peninsula Water Management District

No. of N	1eter Equivalents			
Meter Size	per Meter Size	Meter Fee		
5/8 x 3/4"	1.00	\$12.64		
3/4"	1.50	\$18.97		
1"	2.50	\$31.62		
1 1/2"	5.00	\$63.22		
2"	8.00	\$101.15		
3"	15.00	\$189.66		
4"	25.00	\$316.11		
6"	50.00	\$632.21		
8"	80.00	\$1,011.54		
Water Use Fee Cost per unit of water Average Water Use Per M Water Use Fee per Multif			\$0.055 380 \$20.90	(per 10 cf) (10 cf per year)
			Ş20.90	
Sample User Fee Calculat Vacant building	tion	Meter Fee based on size of meter	Water Use Fee 50% of non- vacant fee	Total User Fee
Duplex with 1" meter		\$31.62	\$41.80	\$73.42
10 Unit apartment buildir	-	\$101.15	\$209.00	\$310.15
10 Unit apartment buildir 30 Unit apartment buildir	-	\$316.11 \$632.21	\$209.00 \$627.00	\$525.11 \$1,259.21

Table 23Recommended Nonresidential User FeeMonterey Peninsula Water Management District

METER FEE

	No. of Meter Equivalents per	
Meter Size	Meter Size	Meter Fee
5/8 x 3/4"	1.0	\$22.57
3/4"	1.5	\$33.85
1"	2.5	\$56.42
1 1/2"	5.0	\$112.84
2"	8.0	\$180.54
3"	15.0	\$338.52
4"	25.0	\$564.20
6"	50.0	\$1,128.40
8"	80.0	\$1,805.43

WATER USAGE FEE

User Classes	Minimum Water Use Fee	Unit
Business or Govt Office	\$52.80	per 10 employees
Hotel/Motel	\$32.17	per room
Supermarkets	\$261.42	per location/each business
Medical Office	\$45.11	per licensed physician
General Hospital	\$118.65	per bed of licensed capacity
Restaurant 1 meal/day	\$2.43	per seat
Restaurant 2 meals/day	\$3.79	per seat
Restaurant 3 meals/day	\$7.28	per seat
Nightclub	\$233.45	per location/each business
Takeout Food - small	\$82.39	1 cash register or checkout lane
Takeout Food - medium	\$211.66	2 or 3 cash registers or checkout lanes
Takeout Food - large	\$372.03	4+ cash registers or checkout lanes
Bakery	\$101.81	per location/each business
Theater	\$109.24	per screen
Mortuary	\$128.06	per location/each business
School (Grades 0-6)	\$0.91	per student
School (Grades 7- college)	\$1.82	per student
Church (less than 100 members)	\$52.80	per location
Church (more than 100 members)	\$105.60	per location
Auto Painters/Body Shop	\$52.80	per 10 employees
Dry Cleaner	\$67.49	per location/each business
Laundromat	\$21.24	per each washing machine
Golf Course	\$105.60	per acre
City Parks, Cemeteries, Other Irrigated Area	\$105.60	per acre
For complete list see Appendix C.		

Table 24Recommended User Fee - Nonresidential Sample BillsMonterey Peninsula Water Management District

Vacant	Meter Fee Based on meter size	Water Use Fee 50% of non- vacant fee	Total User Fee
Hotel with 2" meter, 30 rooms	\$180.54	\$964.97	\$1,145.51
Office with 1 1/2" meter, 35 employees	\$112.84	\$211.20	\$324.04
Restaurant with 1" meter, serves 2 meals/day, 40 seats	\$56.42	\$151.72	\$208.14
Commercial building with 2" meter	\$180.54		
Takeout Food - small		\$82.39	
Office with 7 employees		\$52.80	
Retail store with 12 employees		<u>\$105.60</u>	
Total commercial building	\$180.54	\$240.79	\$421.33

Comparable Agencies

MPWMD is unique in that it manages surface and groundwater water supplies, and delivers a portion of the region's water supply from its ASR project as a wholesale provider, but does not deliver water to retail customers. The proposed GWR project will be another source of water for wholesale delivery. BWA surveyed other water agencies in California, and identified four agencies in California that allocate costs to a water supply management function. Each of the agencies surveyed has a different mechanism for recovering water management costs. The Metropolitan Water District of Southern California and the San Diego County Water Authority each have a distinct user charge for their water management services. The Eastern Municipal Water District of Southern California and the Santa Clara Valley Water District recover their water supply management costs through a bundled water rate and do not have a distinct fee. Of the four agencies surveyed, only the San Diego County Water Authority charges for water supply management on a fixed charge basis, see Table 21. The San Diego County Water Authority charge is allocated to the Authority's customer agencies based on a three-year rolling average of water deliveries. This is similar to the hybrid approach to MPWMD's user fee which calculates a revenue requirement per each customer class based on last year's water use.

It should be noted that all of these agencies are wholesalers and the rates shown in Table 21 are the rates that they charge to their customer agencies. These are not the rates that are charged to individual households or businesses. BWA was not able to identify any agencies that charge a specific fee to retail customers for water management services. However, Table 25 illustrates that both fixed and variable charges are commonly used by other water agencies.

Table 25Comparable AgenciesMonterey Peninsula Water Management District

Agency Metropolitan Water District of Southern California	Name of Fee Water Stewardship Rate	Purpose of Fee Recovers the cost of MET's financial commitment to conservation, water recycling, groundwater clean-up and other local resource management programs	Type Variable
San Diego County Water Authority	Customer Service Charge	Recovers administrative costs and programs that benefit the region as a whole including water conservation and local water supply programs	Fixed
Eastern Municipal Water District of Southern California	Wholesale Treated Rate	Recovers cost of water supply charges, the cost of lost water, pumping and delivery, readiness to serve costs, capital replacement costs, overhead and administration, and costs to fund regional water conservation programs	Variable
Santa Clara Valley Water District	Various fees based on type of water source used by the customer	Recovers cost of water supply and delivery; new sources of supply/alternate water sources are included in the delivered water rate	Variable

Billing method

MPWMD does not bill customers directly and does not have a billing system in place. Prior to the CPUC decision, Cal-Am included the MPWMD user fee on its monthly bills to customers. Going forward, the MPWMD must determine a new billing method.

One option is for the District to develop a billing department in-house and directly bill customers. This option would require the hiring of several new staff members and the purchase of billing software. The District would also need to manage the printing and mailing of bills, the processing of payments, and the pursuit of delinquent bills.

BWA recommends that the District bill semi-annually on the County's assessors roll. This billing method saves MPWMD the cost of directly billing customers and the Tax Collector assumes the responsibility of collecting on delinquent accounts.

Legal Requirements

To implement a new user fee as described in this memorandum, the MPWMD must meet the procedural and substantive requirements of Proposition 218. Proposition 218, the "Right to Vote on Taxes Act", was approved by California voters in November 1996 and is codified as Articles 13C and 13D of the California Constitution. Proposition 218 establishes requirements for imposing or increasing property related taxes, assessments, fees and charges. The substantive requirements of Prop 218 are described below.

Substantive Requirements for Property Related Fees and Charges

Proposition 218 established a number of substantive requirements that are generally deemed to apply to water and sewer service charges, including:

- **Cost of Service** Revenues derived from the fee or charge cannot exceed the funds required to provide the service. In essence, fees cannot exceed the "cost of service".
- **Intended Purpose** Revenues derived from the fee or charge can only be used for the purpose for which the fee was imposed.
- **Proportional Cost Recovery** The amount of the fee or charge levied on any customer shall not exceed the proportional cost of service attributable to that customer.
- No Standby Fee No fee or charge may be imposed for a service unless that service is used by, or immediately available to, the owner of the property. Standby charges shall be classified as "assessments" which are governed by Article 13D Section 4.

The language of Proposition 218 provides little guidance on how to interpret the substantive requirements on rates and charges. For example, there is no definition of what constitutes the cost of providing service. Additionally, the courts have provided little guidance to date. Public agencies must rely on their own interpretations and/or those of their legal advisors.

The bottom line is that the District's utility rates should reasonably reflect the cost of providing service to each customer class. BWA believes that rates can recover costs for operations, capital needs, debt service, administration, as well as costs related to the prudent long-term operational or financial management of the utility enterprise, such as maintaining adequate fund reserves or planning for contingencies. Rates for a given service can vary by customer class provided there is reasonable justification for any differences. While Proposition 218 places a number of limitations on the District's rates, BWA believes the District retains substantial latitude to determine actual utility charges, provided such charges are supported by reasonable justification.

This memorandum provides the reasonable justification for the user fee: 1) the purpose of the fee, 2) how the fee is calculated, 3) how the fee is scaled for various customers based on meter equivalents.

Procedural Requirements for Imposing or Increasing Property Related Charges

MPWMD's schedule of Prop 218 procedural requirements is shown on the next page and are described in detail below.

• **Notice of Proposed Rate Increase** - The District must mail a notice of proposed rate increases to all affected property owners. The District has received guidance from its legal advisors that record owners of real property (parcels) must be notified.

The notice must include:

- the amount of the fee or charge (which is commonly interpreted to include the rates upon which the charge will be calculated)
- the basis upon which the fee was calculated;

- the reason for the fee or charge;
- the date, time, and location of a public hearing at which the proposed rates will be adopted.

The notice may also need to identify the parcel upon which the fee will be imposed, depending on the District Attorney's legal opinion. However, some attorneys do not believe this requirement necessarily applies to charges imposed as an incident of property ownership, such as water, recycled water, and sewer rates. Some agencies that opt to meet this requirement have done so by simply including the assessor's parcel number on the mailing label.

• **Public Hearing** - The District must hold a public hearing not less than 45 days after mailing the required notices. In practice, the 45-day period should start the day the notices are postmarked. If the notices are postmarked on different days, such as from being sent out in batches, the latest postmark date should apply.

At the public hearing the District must "consider all protests" against the proposed fees or charges. The District's Board would have the authority to adopt any rate at or below the rates included in the Proposition 218 notice.

• **Majority Protest** - At the public hearing, the proposed rate increases are subject to majority protest. If more than 50% of affected property owners submit written protests against the proposed rate increases, the increases cannot be adopted.

MPWMD Prop 218 Schedule

STEP	ACTION	WHEN
1.	Prepare report of General Counsel in support of District authority to collect	Complete
	rates, charges, and user fees through contract with County Assessor on tax bills.	
2.	Approve consultant to prepare draft report to support the Ordinance for	February 23
	collection on the Assessor's roll. Prepare report. Describe each real property	
	receiving services and the amount of the charge for each parcel for the year,	
	computed in conformance with the proposed ordinance. [Assumes no RFP; Sole	
	source contract]	
3.	First reading of the proposed rate ordinance by the MPWMD Board of Directors.	April 16
	Requires two-thirds vote. Board sets the second reading date and public hearing	
	date for June 12, 2012.	
4.	For Prop. 218 compliance, mail notice of public hearing to the record owner of	April27
	each parcel upon which the fee or charge is proposed to be imposed. The notice	
	must include:	
	a. the amount of the fee on that parcel	
	b. the basis for calculating the fee or charge	
	c. the reason for the fee or charge	
	d. the time, date and location of the protest hearing	
	Must also mail notice to the record owner's address shown on the last equalized	
	assessment roll if that address is different than the billing or service address. [At	
	least 45 days before public protest hearing]	
5.	Publish notice of protest hearing once a week for 2 successive weeks, with 5	April 30
<u> </u>	days between publication dates.	
6.	District mails notice of public hearing to interested parties who have filed	May 29
7	written request within prior year [At least 14 days before hearing.]	4
7.	District makes available to the public data indicating the amount of cost, or	June 1
	estimated cost, required to provide the service for which charges are levied and	
	the revenue sources anticipated to provide the service, including other sources of revenue. [At least 10 days before hearing.]	
8.	District publishes summary of proposed ordinance and posts certified copy of	June 7
0.	full text of proposed ordinance in District office. [5 days before meeting]	Julie /
9.	Hold Prop. 218 public hearing on protests. If a majority of owners or tenants of	June 12
9.	identified parcels present written protests, the District may not impose the	June 12
	charges. [Not less than 45 days after notice is mailed]	
10.	Second reading of the proposed rate increase ordinance by the MPWMD Board	June 12
10.	of Directors. Requires two-thirds vote. Board adopts report. [Ordinance will need	June 12
	to have effective date of	
	July 1 written into it, otherwise effective date is 30 days after adoption.]	
11.	Board adopts 2012/2013 operating and capital budget by resolution	June 12
12.	User fee effective date	July 1
13.	File with County Assessor a copy of the report prepared pursuant to Section	By August 1
	5473 of Health & Safety Code and state the report has been adopted by the	, 0
	Board. Database of collections transferred to Assessor's office and entered	
	against respective parcels. [H&S Code indicates August 10th, but Monterey	
	County desires data by August1]	

APPENDIX A MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY MONTHLY RATE SCHEDULE*

Effective July 1, 2011

CATEGORY CODE	DESCRIPTION	MONTHLY RATES	UNITS
001 002 003 004-099	Business/Gov't 1-10 Employees Business/Gov't 11-20 Employees Business/Gov't 21-30 Employees Rate Increases - \$8.70/every 10 Emplo	8.70 17.40 26.10 byees	Location/Each Business
101, 106 102, 105 107, 109 211	Residential-Vacant Residential/Apartments Condo/Retirement Community Minimum/Vacancy	7.65 12.75 6.65	Each living unit Each living unit Location/Each Business
221 222	Motel/Hotel Bed & Breakfast Inn	5.30 3.55	Each room Each room
231	Supermarkets	86.15	Location
241	Medical Office	11.15	Each licensed Physician
242	Dental Office	15.10	Each licensed Dentist
243	Rest Home/Convalescent	3.30	Each bed of licensed capacity
244	General Hospital	19.55	Each bed of licensed capacity
245	Animal Hospital	22.90	Location/Each licensed business
261 262 263 264	Restaurant 1 meal/day Restaurant 2 meals/day Restaurant 3 meals/day Restaurant with Bar	.80 1.25 2.40 2.40	Each restaurant seat
265	Bar	19.75	Location/Each bus.
266	Nightclub	57.70	Location/Each bus.
267	Takeout Food - Small	27.15	1 cash register or checkout line
268	Takeout Food - Medium	69.75	2 or 3 cash registers or checkout lines
269 Takeout Food - Large		122.60	4 or more cash registers or checkout lines

MONTEREY REGIONAL WATER POLLUTION CONTROL AGENCY Monthly Rate Schedule - Effective July 1, 2011 Page 2

CATE	GORY				MONTHLY	
CODE		DESCRIPTION			RATES	UNITS
	270	Bakery				Location/Each bus.
	281	Theater			27.00	Per screen @ each location
	282 283	Bowling Center Gym 1-500 Mer 289 Rate Increase:			8.70	Location Each bus.
	290		5 90.7070	VCLY JUU II	42.20	Location/Each bus.
	291	School (Minimum)		8.70	
	292 293 294 295	School (Grades School (Grades Boarding School Instructional Fa	7-College)	.10 .20 2.55 8.70	School population
	296 297	Church 1-100 Mer Church Over 100			8.70 17.40	Location/Each business
	301	Photo Developer			8.70	
		Laboratory Rate Increases \$	8.70/ever	y 10 emplo	8.70 Dyee	Location/Each business
		Printer 326 Rate Increase:	s – \$8. [°]	70/every 1	8.70 0 employe	
	331	Service Station/	Garage		9.25	
		Auto Painters, B 346 Rate Increase Dry Cleaner				
	354	Laundromat			7.00	Each washing machine
	511	Temporarily Susp	ended		.00	
	352, 401-	361, 366, 411	(Special	Users)	Individ	lual determination

* These rates do not reflect the city charges assessed on all properties in the following cities:

40.6%	Monterey (Plus Stormwater Utility Fee \$10.88)
185%	Pacific Grove
35%	Salinas
66.4%	Seaside, Sand City and Del Rey Oaks

APPENDIX B: Land Use Basis - User Fees

	Avg SFD Count	Annual User Fee	Annual User Fee
Land Use	per Parcel	(high SFD count)	(low SFD count)
1 S.F.D. ON 1 SITE	1.00	\$56.37	\$67.27
1 S.F.D. ON 2 OR MORE SITES	1.65	\$92.87	\$110.83
1 SFD ON MULTI-ZONED 1 SITE	0.56	\$31.32	\$37.38
1 SFD/MULTIFMLY EXTRA LAND	0.41	\$22.88	\$27.31
1 STORY OFFICE BUILDINGS	1.59	\$89.59	\$106.92
16 TO 30 UNIT APARTMENTS	2.59	\$145.92	\$174.14
2 OR MORE S.F.D. ON 1 SITE	0.86	\$48.49	\$57.87
2 OR MORE SFD & 2 OR MORE SITE	2.85	\$160.69	\$191.77
2 UNITS ON ONE SITE	0.62	\$35.15	\$41.95
31 UNITS OR MORE	6.44	\$363.16	\$433.40
3-4 UNIT APT DEVELOPED SITE	0.84	\$47.27	\$56.42
5 TO 15 UNIT APARTMENT	1.41	\$79.37	\$94.72
AG PRES, GRZ, BRUSH, DRY FRM	204.19	\$11,510.12	\$13,736.26
AUTO SALES, REPAIRS, STORAGE	1.91	\$107.70	\$128.52
AUTO WRCK/SLVG,OP STRG,SM IMPS	1.25	\$70.37	\$83.98
BANKS & FINANCIAL INSTITUTIONS	2.77	\$155.87	\$186.01
CEMETERIES ETC	1.83	\$103.11	\$123.05
CHURCHES	2.87	\$161.71	\$192.98
COMB OF STORES, OFFICE OR APT	2.21	\$124.78	\$148.92
COMMERCIAL SHELL TYPE BLDGS	2.33	\$131.08	\$156.43
CONDO & TOWNHOUSES LIVING UNIT	0.56	\$31.51	\$37.61
CONDO COM AREA & MISC BLDGS	1.76	\$99.09	\$118.26
FRATERNAL ORGANIZATIONS	1.89	\$106.50	\$127.10
GRAZING, ETC	7.70	\$434.22	\$518.20
HOSPITAL PRIVATE, CONVALESCENT	5.93	\$334.16	\$398.79
HOTEL & MOTEL	3.60	\$203.13	\$242.42
IMPROVED RES USE 11 AC OR MORE	13.23	\$745.88	\$890.14
IMPROVED RES USE UP TO 10 AC	3.11	\$175.23	\$209.12
INDS/RSCH PARK, W/WO STRUCTURE	6.09	\$343.06	\$409.41
INDUSTRIAL CONDOMINIUMS	0.03	\$1.52	\$1.81
LIGHT MFG OR LIGHT INDUSTRIAL	2.25	\$126.94	\$151.49
MED/DENTAL BLDG PET HOSP	1.80	\$101.53	\$121.17
MH & HCD FOUNDATION L & I	0.90	\$50.47	\$60.23
MH LIC BY HCD,LND/SITE_ONLY	0.02	\$1.14	\$1.37
MH,LAND, SITE VALUE & PP	2.52	\$142.10	\$169.59
MINING,QUAR,MIN, PROCES PLANTS	11.87	\$669.08	\$798.49
MISC BLDG	1.71	\$96.46	\$115.12
MISC IMPS 1 OR MORE SFD SITES	0.26	\$14.47	\$17.27
MOBILEHOME PARK	16.00	\$901.74	\$1,076.14

Land Use	Avg SFD Count per Parcel	Annual User Fee (high SFD count)	Annual User Fee (low SFD count)
MULTI STORY OFF BLDGS	3.71	\$209.38	\$249.87
MUSEUMS, LIBRARIES	5.38	\$303.33	\$362.00
NO OTHER CODE APPLIES	0.46	\$25.71	\$30.68
OFFICE CONDOMINIUMS	0.22	\$12.50	\$14.92
PARKING LOTS	0.17	\$9.73	\$11.62
PRODUCE SHEDS & FOOD PROCESS	2.20	\$123.93	\$147.90
PRVT RDS, R/W, LANES, WELL LOT	4.00	\$225.36	\$268.94
PUBLICLY OWNED NON-TAXABLE	3.70	\$208.68	\$249.04
PUBLICLY OWNED TAXABLE	0.85	\$47.95	\$57.23
REC/GOLF/TENNIS RESORTS	24.04	\$1,355.33	\$1,617.46
RES USE VAC 11 TO 40 AC	8.07	\$454.89	\$542.87
RES. USE VAC UP TO 10 AC	2.50	\$140.78	\$168.00
RESTAURANTS, DRV-IN, SPEC BLDG	1.67	\$94.12	\$112.32
ROW CROP	7.75	\$437.03	\$521.55
SBE ASSESSED ROLL ITEMS	0.82	\$46.43	\$55.41
SCE ESM/OPN SP,NEG ESM,NO SUBV	6.77	\$381.77	\$455.61
SCHOOLS, COLLEGES, DAY SCHOOLS	4.76	\$268.08	\$319.93
SERV STATION AUTO OR CAR WASH	0.83	\$46.60	\$55.61
SFD ON COMMERCIAL ZONED LAND	0.48	\$27.04	\$32.26
SHOPPING CENTERS	6.89	\$388.60	\$463.75
SUBURBAN STORES (INDV BLDG)	2.73	\$153.79	\$183.54
SUPERMARKET (NOT IN SHP CTR)	5.26	\$296.53	\$353.88
THEATERS	4.18	\$235.69	\$281.27
UNDEV 41 TO 300 ACRES	52.85	\$2,979.32	\$3,555.55
UNDEVLP 301 OR MORE ACRES	163.73	\$9,229.43	\$11,014.47
UTILITIES ASS'D ON LOCAL ROLL	1.28	\$72.15	\$86.11
VAC S.F.D. 1 SITE	0.56	\$31.72	\$37.86
VAC S.F.D. 2 OR MORE SITES	7.32	\$412.73	\$492.55
VAC ZONED MULTI FAM DWELLING	0.10	\$5.90	\$7.04
VACANT COMMERCIAL	0.33	\$18.51	\$22.09
VACANT INDUSTRIAL	0.22	\$12.58	\$15.01
VACANT TRANSITIONAL	5.53	\$311.49	\$371.73
VINEYARDS	17.81	\$1,004.07	\$1,198.27
WAREHOUSING, MINI STRG, LMBR YDS	3.86	\$217.50	\$259.57
WASTE LND HUNTING OR REC USE	0.22	\$12.40	\$14.80
WATER SYS IMPS ON SCRD ROLL	0.26	\$14.69	\$17.53
WHOLESALE NURSERIES MSHRM HOUS	1.86	\$105.11	\$125.44

APPENDIX C: Recommended Nonresidential User Fees

		Recommended Water	
Description	Category Code*	Use Fee per Unit	Unit
Business/Govt 1 to 10 employees	001	\$52.80	per location/each business
Business/Gov 11 to 20 employees	002	\$105.60	per location/each business
Business/Gov 21 to 30 employees	003	\$158.40	per location/each business
Rate Increases	004-099	\$52.80	fee increase per every 10 employees
Minimum/vacancy	211	\$26.40	per location/each business
Hotel/Motel	221	\$32.17	per room
Bed and Breakfast	222	\$21.54	per room
Supermarket	231	\$261.42	per location/each business
Medical Office	241	\$45.11	per licensed physician
Dental Office	242	\$61.09	per licensed dentist
Rest Home	243	\$20.03	per bed of licensed capacity
General Hospital	244	\$118.65	per bed of licensed capacity
Animal Hospital	245	\$138.98	per location/each business
Restaurant 1 meal/day	261	\$2.43	per seat
Restaurant 2 meals/day	262	\$3.79	per seat
Restaurant 3 meals/day	263	\$7.28	per seat
Restaurant w/bar	264	\$9.71	per seat
Bar	265	\$79.91	per location/each business
Nightclub	266	\$233.45	per location/each business
Takeout Food - small	267	\$82.39	1 cash register or checkout lane
Takeout Food - medium	268	\$211.66	2 or 3 cash registers or checkout lanes
Takeout Food - large	269	\$372.03	4+ cash registers or checkout lanes
Bakery	270	\$101.81	per location/each business
Theater	281	\$109.24	per screen
Bowling Center	282	\$491.59	per location/each business
Gym	283	\$52.80	per 500 members
Rate Increases	284-289	\$52.80	fee increase per every 10 employees
Mortuary	290	\$128.06	per location/each business
School Minimum	291	\$52.80	per location/each business
School (Grades 0-6)	292	\$0.91	per student
School (Grades 7- college)	293	\$1.82	per student
Boarding School	294	\$23.21	per student
Instructional Facility	295	\$52.80	per location/each business
Church (0 to 100 members)	296	\$52.80	per location
Church (over 100 members)	297	\$105.60	per location
Photo Developer	301	\$52.80	per location
Laboratory	311	\$52.80	, per 10 employees
Rate Increases	312	\$52.80	fee increase per every 10 employees
Printer	321	\$52.80	per 10 employees
Rate Increases	322-326	\$52.80	fee increase per every 10 employees
Service Station	331	\$52.80	per 10 employees
Auto Painters, Body Shop, Paint Store	341	\$52.80	per location/each business
up to 10 employees			
Rate Increases	342-346	\$52.80	fee increase per every 10 employees
Dry Cleaner	353	\$67.49	per location/each business
Laundromat	354	\$21.24	per each washing machine
Special Users		\$52.80	fee proportional to the average business
	351, 352, 361, 366,		user, not to exceed \$2,500; individual
	367, 401-411		determination
Temporarily Suspended (no active	354	\$0.00	per location/each business
water meter)		-	
Mobile Home		\$32.17	per living unit
Golf Course		\$105.60	per acre
City Parks, Cemeteries, Other		\$105.60	per acre
Irrigated Area			
*see Appendix A			